Bianco, Todd (PUC)

From: Justin Goff <justinbgoff@gmail.com>
Sent: Wednesday, December 20, 2017 6:06 AM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Re: SB-2015-06 Invergy Clear River Energy Center Public Comments

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Todd,

I am writing this letter in opposition to the proposal to use well water from the Narragansett lands in Charlestown. I reside at 138 C Old MIll Road and the proposed site is directly behind my property. This land is suppose to be federally protected from any form of improvements or development. I dont even see how this is on the table?The reason I purchased the land and why I live in Charlestown is for the vast amount of protected land that we all cherish. I also worry that my own residential well would be negatively impacted in the future.

Open space and protected land are limited in Rhode Island so please do not allow this proposal to tear into the protected lands. Also I believe the amount of truck traffic would negatively impact our roads and require increased maintenance and thus higher taxes in the future.

Thank for your time and please do what is right, not only for the people of Charlestown but for all of Rhode Island.

Happy Holidays!

Best Regards,

Justin B. Goff

138 C Old MIll Road
Charlestown

Bianco, Todd (PUC)

From: Keith Killingbeck <kkillingbeck@uri.edu>
Sent: Thursday, December 14, 2017 4:21 PM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : SB-2015-06 Invenergy Clear River Energy Center Public Comment

Follow Up Flag: Follow up
Flag Status: Flagged

14 December 2017

Energy Facility Siting Board
Public Utilities Commission
State of Rhode Island

Dear Chairperson Curran, and Members Agrawal and Coit:

In addition to what appears to be overwhelming evidence in favor of terminating the application submitted by Clear River Energy to build an energy facility in Burrillville, I would like to add another concern that has not yet emerged.

The apparent promise of water from Tribal Lands within the Town of Charlestown to the proposed Invenergy power plant in Burrillville has the potential to negatively impact rare, threatened, and endangered plant populations that grow along the margins of Tribal ponds. Seven plant species in these categories of endangerment are listed in the most recent document that formally determines species' rarity in Rhode Island; *Rhode Island Rare Plants 2016*. Populations of all seven species have been documented in the Rhode Island Natural History Survey database as growing along the shores of one or both of the two major ponds on Tribal Lands. Changes in the hydrology of these ponds from direct removal of water, or from extraction of groundwater to supply the needs of the Invenergy power plant, would potentially have significant negative effects on these rare species that are already being preserved on Narragansett Tribal Lands.

Even if water was to be withdrawn from a site in Westerly rather than from Charlestown, as has been suggested by some individual members of the Narragansett Indian Tribe, the fact that the water would be extracted from the single aquifer underlying both towns would still jeopardize the existence of the rare plant species in Charlestown, and throughout the entire area underlain by the Pawcatuck Basin Aquifer System.

It has been my privilege to have Tribal permission to search for, document, enumerate, and map populations of rare plant species that grow in, or within the immediate vicinity of the two major Tribal ponds in Charlestown. Just this past October, another botanist (Hope Leeson) and I found

thousands of individuals of *Sabatia kennedyana* (Plymouth gentian) and *Lachnanthes caroliniana* (Carolina bloodroot) growing at the shore edge of one of the two Tribal ponds. These are unprecedented numbers for both *Sabatia* (RI State Endangered) and *Lachnanthes* (RI State Threatened) in our state. Both species, along with the five additional rare species alluded to above, have evolved to prosper in a very restrictive set of environmental conditions. Major changes in the hydrology of these ponds due to the removal of vast quantities of water from the Pawcatuck Basin Aquifer System for use in the proposed Invenergy facility could conceivably threaten the existence of these remarkable plant species that the Narragansett Indian Tribe has protected so diligently.

For the reasons I have outlined, and for the landslide of reasoned opposition to what appears to be an ill-conceived, poorly planned proposal, I respectfully request that you seriously consider terminating the quest by the Clear River Energy Center to build a power plant in Burrillville, Rhode Island.

Thank you for your consideration, and for the immense amount of time you have already spent on this issue. Your efforts are appreciated.

--
Keith T. Killingbeck
Associate Dean Emeritus, The Graduate School
Professor Emeritus, Department of Biological Sciences
129 Woodward Hall
University of Rhode Island
Kingston, RI 02881
Phone = 401-874-2624
e-mail = keith@uri.edu

Bianco, Todd (PUC)

From: susan killingbeck <susankaye_2000@yahoo.com>
Sent: Tuesday, December 12, 2017 1:55 PM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : SB-2915-06 Invenergy Clear River Energy Center Public Comment

Follow Up Flag: Follow up
Flag Status: Flagged

To: Whom It May Concern

I am writing in opposition to the proposed water withdrawal in Charlestown to supply the Clear River Power Plant proposed in Burriville. There are a number of reasons that I oppose this action. 1) The area that is being considered would be environmentally harmed and wildlife habitat destroyed. 2) The water would be withdrawn from the sole aquifer supplying our town. Our wells would be affected. 3) Without adequate water, families, businesses and agriculture could not continue to thrive here. Tourism would be diminished. 4) The rural character of our town would be destroyed. 5) Large tanker trucks dripping water would make driving hazardous on our country roads. 6) Increased traffic due to trucks would destroy our roads.

We all need water to live. Once it is compromised it can not be regained. We also need energy. But it seems strange that some people still think fossil fuel is the best way to create energy. Renewable sources should be explored instead. If, as Invenergy claims, the existing fossil fuel plants are not adequate to bridge the needs as we switch to renewable sources, why can't they be upgraded instead of building an entire new plant.

Once reason that many people support the Burriville plant is that jobs will be created. But what about the jobs in tourism and agriculture that will be lost? What about the loss of the things that make this little state different and beautiful? Once they are gone they will not be coming back.

Invenergy claims their plant will be more efficient and less polluting than present plants. Have they factored in the diesel fuel needed to get huge trucks weighed down with water back and forth from Burriville and Charlestown? Have they considered the pollution that the trucks will produce?

Invenergy has offered no plans on how to solve any of these problems. They seem bent on making a quick profit and leaving a mess behind. There must be a better way.

Inevergy does not have the right to take Charlestown's water. Because of short-sightedness and poor planning, the Burriville plant should not be built.

Sincerely,

Susan Killingbeck
5 Skagerrak Road
Charlestown, Rhode Islant 02813
401-364-7513

Bianco, Todd (PUC)

From: barbara bailey <magga415@gmail.com>
Sent: Tuesday, December 12, 2017 11:15 AM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Water is life.

Follow Up Flag: Follow up
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I'm not a political person and I'm very eloquent either but I do live in Charlestown and am very concerned about our drinking water. I don't understand how this seems like a good plan in any way for our town, the surrounding towns, our environment and wetlands and our precious drinking water. Please don't let this happen. Thank you for your consideration in this matter.

Sincerely
Barbara Bailey
54 Skagerrak Rd, Charlestown

Bianco, Todd (PUC)

From: John Lake <jlake9@hotmail.com>
Sent: Monday, December 11, 2017 9:03 AM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Use of Charlestown ground water for Burriville Power Plant

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Mr. Bianco,

I am writing this email asking the board to reject the plan to use Charlestown groundwater for the proposed Burriville power plant. I live in Charlestown and my house relies on water drawn from the aquifer which has been proposed for industrial use. To my knowledge not much planning or study has gone in to this proposal and it is reckless to just assume it will be ok to drill some industrial wells and expect little effect on the water table. Furthermore, our roads in Charlestown are already in a state of disrepair, adding addition heavy industrial traffic will only worsen the situation and ultimately be the burden of the tax payers. Additionally as you are likely discovering the member of the tribe that has offered this water does not have the authority to speak for the tribe or the town. He is a person of very questionable ethics. For these reasons as well as consideration of the overwhelming number of Charlestown residents that opposed the plan at your public hearing here in town, I again ask that you reject the proposed use of Charlestown ground water for the proposed power plant in Burriville,

Thank You for your consideration,

John Lake
13 Breton Dr.
Charlestown, RI 02813

Bianco, Todd (PUC)

From: Sarah Fletcher <sfletcher@catalogdesignstudios.com>
Sent: Thursday, December 07, 2017 3:55 PM
To: Bianco, Todd (PUC)
Cc: Paul Fletcher
Subject: [EXTERNAL] : Charlestown water from Indian cedar swamp aquifer

Follow Up Flag: Follow up
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Hi Todd,
I wasn't able to make the meeting but I am very concerned about removing such significant amounts of water from the Cedar Swamp which is the aquifer for the town of Charlestown. We are already experiencing water shortages in the warm summer months. Removing millions of gallons more could create a water crisis. I strongly urge the Energy Facility Siting Board to consider the long term impact of this on the town of Charlestown.

All the best,
Sarah Fletcher
82 Hunters Harbor Road
Charlestown RI 02813

Bianco, Todd (PUC)

From: Kogut, Thomas (DPUC)
Sent: Wednesday, December 06, 2017 9:00 AM
To: Bianco, Todd (PUC)
Subject: FW: [EXTERNAL] : In Charlestown, officials, residents oppose power plant

Follow Up Flag: Follow up
Flag Status: Flagged

From: billyhoran@aol.com [mailto:billyhoran@aol.com]
Sent: Wednesday, December 06, 2017 8:13 AM
To: Kogut, Thomas (DPUC) <Thomas.Kogut@dpuc.ri.gov>
Cc: captbirdfish@gmail.com; louis_dipalma@yahoo.com; ruff@newportri.com
Subject: [EXTERNAL] : In Charlestown, officials, residents oppose power plant

12/06/2017
via email thomas.kogut thomas.kogut@dpuc.ri.gov

TO; thomas.kogut thomas.kogut@dpuc.ri.gov

From; William F Horan

Subject Urgent - Please enter this communications into the record of the EFSB Hearings for the Clear River Natural Gas fueled Power Station at Burrillville RI.

Reff: http://providencejournal.com/news/20171205/in-charlestown-officials-residents-oppose-power-plant

Please see the response to a referenced 12/06/2017 projo article concerning a 12/05/20117 Charleston, RI hearing re the pending Burrillville, RI natural gas fueled power station
aka Clear River.

Posted projo comment .

- **William F Horan**

The location of the 12/05 public hearing on the power plant proposed in Burrillville was different, but the opinions expressed about the project were similar. That is charged with emotion and lacking in creditable, quantitative & factual information. The external cult of politically motivated environment terrorist continue to stoke a local NIMBY victim hood assembly with misinformation and fear. The result is a string of red herrings and companion canards devised in attempting to distract us from the critically needed new power station aka clear river combined cycle gas turbine electrical generation facility. The NIMBY marchers even complaining about the string of delays they have manufactured, creating costly extended reviews. Today radicals have fabricated cooling water backup alternatives as one of their many devious Trojan horses intended to generate misinformation & fear destroying the project. This local misguided advocacy is troubling, the magical thinking alternative (WWS) wind, water & Solar electrical generation cult (contrary to claims) has been economically & technically discredited across Europe. Why must we repeat their latest failed grand experiment in socialism? The bridge to our sustaining affordable & reliable electrical generation is; new natural gas combined cycle , extended operation for existing nuclear fission and clean coal power stations. The future could bring generation IV modern nuclear fission / Thorium fueled reactors & even scaled nuclear fusion similar to work in progress at MIT. The hyped impractical WWS advocacy is out of step with both reality & the nations identified solutions especially for this region of our nation. . The costly and time consuming obstructions to concluding the hearings with project approval must be ended.

Please approve The Clear River Project with out further delay.

Thank You
William F Horan
Engineering Fellow Retired
Life Member IEEE
Member Providence Section IEEE executive committee.

1 Jean Street Marshall Village
Middletown, RI 02842-4536

Billyhoran@aol.com
401 846 5732

Bianco, Todd (PUC)

From: Kogut, Thomas (DPUC)
Sent: Monday, November 27, 2017 5:54 AM
To: Bianco, Todd (PUC)
Subject: Fwd: [EXTERNAL] : Urgent - EFSB The Clear River Burrillville Combined cycle gas turbine power station proposals only acceptable outcome is intimidate approval for this critical project.

Follow Up Flag: Follow up
Flag Status: Flagged

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From: billyhoran@aol.com <billyhoran@aol.com>
Sent: Saturday, November 25, 2017 12:02:28 AM
To: Kogut, Thomas (DPUC)
Cc: letters@providencejournal.com; francis@newportri.com
Subject: [EXTERNAL] : Urgent - EFSB The Clear River Burrillville Combined cycle gas turbine power station proposals only acceptable outcome is intimidate approval for this critical project.

thomas.kogut@dpuc.ri.gov,
Please enter my correspondence attached below into the official records for The Energy Facility Siting Board that is set to hold a hearing on Monday 11/27/2017 at 10 a.m. in its offices in Warwick on a host of motions regarding the Clear River Burrillville Combined cycle gas turbine power station proposal.
Thank you,
William F Horan

Engineering Fellow retired

Middletown, RI 02842-4536

1 Jean Street Marshall Village

4018465732

billyhoran@aol.com

-----Original Message-----
From: billyhoran <billyhoran@aol.com>
To: letters <letters@providencejournal.com>; francis <francis@newportri.com>
Cc: louis_dipalma <louis_dipalma@yahoo.com>; governor <governor@governor.ri.gov>; sen-ruggerio <sen-ruggerio@rilegislature.gov>; sen-dipalma <sen-dipalma@rilegislature.gov>; rep-mattiello <rep-mattiello@rilegislature.gov>; rep-ruggiero <rep-ruggiero@rilegislature.gov>
Sent: Fri, Nov 24, 2017 11:49 pm
Subject: The Clear River Burrillville Combined cycle gas turbine power station proposals only acceptable outcome is intimidate approval for this critical project.

The Clear River Burrillville Combined cycle gas turbine power station proposals only acceptable outcome is intimidate approval for this critical project.

The Energy Facility Siting Board is set to hold a hearing on Monday 11/27/2017 at 10 a.m. in its offices in Warwick on a host of motions regarding the Clear River Burrillville Combined cycle gas turbine power station proposal. The only acceptable outcome is intimidate approval for this project. The political pandering of the NIMBY victim hood marchers & obstructionist performing for nefarious elements must be terminated. Governor Raimondo it is time for you to fish or cut bait as to a viable energy future for RI Public utilities. You have taken too long with the ESB hearings - approval process. You have not exercised decisive leadership resulting in a continuation of a self induced energy poverty and companion economic calamity for RI citizens. OBTW your WWS / wind water solar generated electricity program is not a viable substitute. That is technically un scaleable to supplement never mind replace other more economical methods for power generation. Hence RI is embarked on yet another self induced economic time bomb of epic proportion.

William F Horan

Engineering Fellow retired

Middletown, RI 02842-4536

1 Jean Street Marshall Village

4018465732

billyhoran@aol.com

Bianco, Todd (PUC)

From: Kogut, Thomas (DPUC)
Sent: Monday, November 27, 2017 5:53 AM
To: Bianco, Todd (PUC)
Subject: Fwd: [EXTERNAL] : Urgent - Projo.com Editorial: Facing reality with natural gas

Follow Up Flag: Follow up
Flag Status: Flagged

First of two related emails

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From: billyhoran@aol.com <billyhoran@aol.com>
Sent: Saturday, November 25, 2017 6:01:00 PM
To: Kogut, Thomas (DPUC)
Subject: [EXTERNAL] : Urgent - Projo.com Editorial: Facing reality with natural gas

TO; thomas.kogut thomas.kogut@dpuc.ri.gov

Urgent - Please enter this communications into the record of the EFSB Hearings for the Clear River Natural Gas fueled Power Station at Burrillville RI.

Reff: http://providencejournal.com/opinion/20171125/editorial-facing-reality-with-natural-gas

Pleas see the attached communications in response to today's projo article concerning approval of the pending Burrillville natural gas fueled power station
aka Clear River

Posted projo comment .

- **William F Horan**
- Rank 0

Spot on! RI MUST approve the Clear River combined cycle natural gas fueled power station with out allowing more mfg bogymen creating additional needless delay. Further RI must become a regional advocates for modernizing and expanding natural gas transmission lines and associated infrastructure. In the interim period until gas transmission line construction catch up with demand, for low usage periods, a local LNG conversion and storage facility could be constructed adjacent to the existing pipe line entry to RI at Burillville RI. This would create a locally stored supply of fuel to utilize in peak periods etc. Natural gas is the bridge fuel of choice during a future migration to disruptive energy technologies orderly development and deployment. The hyped WWS - wind , water, and solar alternative is a fiction based on a cult like magical thinking defying sound logic. Economics and engineering disciplines have debunked the baseless claims for this latest alleged green renewable cronies capitalism ponzi scheme.

Please approve The Clear River Project with out further delay.

Thank You
William F Horan
Engineering Fellow Retired
Life Member IEEE
Member Providence Section IEEE executive committee.

1 Jean Street Marshall Village
Middletown, RI 02842-4536

Billyhoran@aol.com
401 846 5732

Bianco, Todd (PUC)

From: Kogut, Thomas (DPUC)
Sent: Wednesday, December 27, 2017 8:55 AM
To: Bianco, Todd (PUC)
Subject: FW: [EXTERNAL] : Proposed Burrillville power plant faces another challenge

Follow Up Flag: Follow up
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From: billyhoran@aol.com [mailto:billyhoran@aol.com]
Sent: Wednesday, December 27, 2017 12:51 AM
To: johnkma@charter.net; ka1rm@aol.com; DinoRobertiRI@gmail.com; Governor (GOV) <Governor@governor.ri.gov>; Kogut, Thomas (DPUC) <Thomas.Kogut@dpuc.ri.gov>; captbirdfish@gmail.com
Cc: editor@newportri.com
Subject: [EXTERNAL] : Proposed Burrillville power plant faces another challenge

http://providencejournal.com/news/20171226/proposed-burrillville-power-plant-faces-another-challenge

The attempted sabotage of the new Burrillville combined cycle natural gas fueled power plant still continues today! This is another example of why RI remains as a bottom feeder bypassed by economic opportunity to engage in creating a shared prosperity.. Yes, inadequate / floored alternatives project continues in spit of the public knowledge that the WWS (wind, water & Solar pv) cult is not a practical optional national, regional or local policy. Affordable, reliable, predictable and available electricity is being replaced by alternatives that will surely create energy poverty and a companion economic calamity.

William F Horan
1 Jean St
Middletown,RI 02842-4536

Bianco, Todd (PUC)

From: Kogut, Thomas (DPUC)
Sent: Thursday, January 04, 2018 11:11 AM
To: Massaro, Luly (PUC); Bianco, Todd (PUC)
Subject: Fw: [EXTERNAL] : Fw: RI's choice to be "Powerful" or not?

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They had asked me to forward to Commission and EFSB.

From: Francis and Deborah OConnell <fdoc2@hotmail.com>
Sent: Tuesday, January 2, 2018 4:47 PM
To: Kogut, Thomas (DPUC)
Subject: [EXTERNAL] : Fw: RI's choice to be "Powerful" or not?

Tom ,can you please share with the commissioners and I could not find their email addresses?
thanks,
Frank

From: Francis and Deborah OConnell <fdoc2@hotmail.com>
Sent: Tuesday, January 2, 2018 4:46 PM
To: letters@providencejournal.com
Subject: RI's choice to be "Powerful" or not?

A defining characteristic of an economically competitive modern society is a reliable, resilient, efficient, cost competitive power supply & transmission and distribution system! The lack of one or more of these attributes = non-competitiveness. Such a system requires a reliable, resilient, efficient, cost competitive energy source. "Alternatives" principally wind and solar are and will be for an extended period of time a niche energy source until the utility scale energy storage issue is solved. Until that time, they require traditional power plants to back them up effectively doubling up system capital requirements.

The turbines, generators, transformers, pumps, compressors, switch gear, etc required are not shelf items. They are purpose built to firm orders often taking 24 months to build plus considerable expertise to transport, install, commission, operate and maintain. And this very equipment despite the best efforts of talented engineers and operators is subject to catastrophic failure requiring redundancy in the system to tolerate "equipment related forced outages", fires and explosions, plus natural disasters such as ice storms, hurricanes, floods, etc. And this equipment has a useful life expectancy requiring careful planning and periodic renewal and recapitalization.

In New England today the power generation infrastructure is in many cases old, at or near end of useful life, expensive to operate and maintain. Yes , there are some newer more efficient combined cycle power plants

but their generation capacity and the available energy supply for additional generation are capacity constrained. Scheduled plant closures will greatly stress system ability to meet demands.

If New England and RI are to thrive, major major reliability and supply projects need to be approved. Doing nothing will only lead to an accelerated exodus of business and population to more competitive locales. Who is willing to forecast the outward bound movement once rolling black-outs have be instituted due the AC loads during heat of summer, the heating loads during the cold of winter or following a force majeure incident at a large power plant or major transmission substation.

The US Energy Information Administration's monthly reports are very instructive to the ongoing discussion about "electricity" and "power generation" infrastructure in RI. Moving to more friendly PA not only saves taxes but reduces one's electric bill by 25% residential and 40% commercial.

https://www.eia.gov/electricity/monthly/epm_table_grapher.php?t=epmt_5_6_a

EIA - Electricity Data

www.eia.gov

Energy Information Administration - EIA - Official Energy Statistics from the U.S. Government

sincerely,
Francis O'Connell
37 Lakeside Dr.
Smithfield RI

401-232-0129

Bianco, Todd (PUC)

From: William Horan <billyhoran@cox.net>
Sent: Thursday, January 04, 2018 4:23 PM
To: captbirdfish@gmail.com; DINOROBERTIri@GMAIL.COM; ka1rm@aol.com; mcohen1 @cox.net; louis_dipalma@yahoo.com; dsharp401@gmail.com; Bianco, Todd (PUC); editor@newportri.com; billyhoran@aol.com; louis_dipalma@yahoo.com; letters@providencejournal.com; johnkma@charter.net
Subject: [EXTERNAL] : Winter storm to test Northeast grid as FERC tees up decision on DOE grid rule

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https://www.utilitydive.com/news/winter-storm-to-test-northeast-grid-as-ferc-tees-up-decision-on-doe-grid-ru/514078/?utm_source=Sailthru&utm_medium=email&utm_campaign=Issue:%202018-01-04%20Utility%20Dive%20Newsletter%20%5Bissue:13462%5D&utm_term=Utility%20Dive

winter-storm-to-test-northeast-grid-as-ferc-tees-up-decision-on-doe-grid
The politicians, planing and regulation process all deserves an F minus for such incompetence and malfeasance.. Rhode Island has been placed in an unacceptable position by a confluence of events. Yes, many years of rank amateur national, regional and local energy policies & companion lack of timely upgrade & deployment for viable electrical generation methods. The advertised replacement was an expensive over sold and under performing low energy density wind, water & solar (WWS) pseudo science fraud that as has already run its course in Europe. Finally disruptive technologies including generation IV LFTR Thorium reactors is one of the few low pollution alternatives. Yes Oak Ridge based R&D void of familiar last generation nuclear hazardous waste bi products. The bridge providing the time to make such a transition is deployment of dual fuel capability combined cycle natural gas power stations , like the local Burrillville, RI proposed facility. Allowing those site hearings to turn into a vehicle for NIMBY regional & locals to fabricate / engage in unconscionable disruptive practices that derail both the new power station & upgrades in regional - local natural gas transmission lines ultimately sabotages the undertaking . Today's blow back with a winter cold snap and winter northeast snow storm is a sample of things to come.
Yes, a Trojan horse premature closure of the Brayton point modern clean coal power station squandered what little reserve generating capacity & was early on predicted to place southern New England in harms way in the peaks winter & summer high power demand periods.

William F Horan
Retired Engineering Fellow & Sr mgr

1 Jean Street
Middletown, RI 02842-4536
billyhoran@aol.com
4018465732

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Friday, January 05, 2018 11:56 PM
To: Bianco, Todd (PUC); louis_dipalma@yahoo.com; Governor (GOV)
Cc: captbirdfish@gmail.com; mcohen1@cox.net; dsharp401@gmail.com; DinoRobertiRI@gmail.com; raymondjanssen@aol.com
Subject: [EXTERNAL] : Electric utilities turn to oil in deep freeze

Follow Up Flag: Follow up
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http://providencejournal.com/news/20180103/electric-utilities-turn-to-oil-in-deep-freeze

Natural gas hit $35.35 Tuesday, 13 times more expensive. The equivalent of filling up your car with $32-a-gallon gasoline. NE has insufficient natural gas pipeline capacity to ensure reliable, affordable access to clean-burning, fuel produced here in the USA.We are paying more for electricity and home heating, because everyone from myopic local Burrillville , RI NIMBY environmental extremists to NY Gov. Cuomo has opposed every reasonable proposal to allow us to secure the natural gas pipeline capacity needs. Our region has transitioned much of its power generation in the last decade to natural gas. Data from ISO-grid operator, show that natural gas produces 50+ percent of the electricity on an average day. Since 2000, 200,000 residential customers have switched to or added natural gas now heats more than 54 % in RI. Ct, Me, NH, and Vt have proposals to meet consumers' demand for expanded access to natural gas. Except for a modest increase in capacity on the Algonquin system increased natural gas pipeline capacity has been thwarted from coming anywhere close to meeting demand. In a cold snap like the one we're in, the severe constraints on pipeline capacity lead to price spikes, and natural gas that costs $3 or $4 jumps to $35. Additional pipeline capacity can dramatically reduce those price spikes. utilities are less able to plan ahead if energy markets are volatile. Hence all six NE states rank in the top 10 states for most expensive electricity, up to 50 percent higher than national average.This is a needless problem for NE - just 200 miles east of some of the most abundant, low-cost natural gas in the world / Pa Marcellus Shale region. With adequate pipeline capacity, access to this low-cost fuel can transform our regional economy creating of thousands of new jobs. Natural gas bridge provides the time to address a clean generation IV LFTR Thorium (oak Ridge based) scaleable nuclear reactors with drastically reduced waste bi products.

William F Horan
Engineering Fellow & Sr Mgr retired
IEEE Life Member
Member Prov Section IEEE Exe Com

1 Jean Street
Middletown,RI 02842-4536
billyhoran@aol.com
4018465732

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Saturday, January 06, 2018 1:40 PM
To: Bianco, Todd (PUC)
Cc: Governor (GOV); louis_dipalma@yahoo.com; captbirdfish@gmail.com; DinoRobertiRI@gmail.com; MCOHEN1@COX.NET; dsharp401@gmail.com
Subject: [EXTERNAL] : My Turn: Jerry Elmer: Invenergy conceals a big cost

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http://providencejournal.com/opinion/20180105/my-turn-jerry-elmer-invenergy-conceals-big-cost

Please add my remarks to the Burrillville power station proposal hearings file and pass on to all energy siting board members et al.

I do not recall the local and regional NIMBY environmental extremism up in arms over the Block Island wind mill environmental risk or finical gerrymandering? The RI General Assembly has long burdened the public utility rate payers as a piggy bank source for a variety of stealth wealth seizures aka taxes masked by many self serving labels. This latest projo reported Deepwater wind fable is just another Russian history book / A NOTHING BURGER. The cost of a Block Island interconnect to the mainland via an underwater power transmission line and companion mainland side equipment / substation transferred to rate payers was a bases for the RI PUC to reject that proposal plus along with the by contract excessively inflated cost of electricity to be paid by all RI electric rate payers (not just block Island). The RI GA & Governor modified the bases of evaluation, after RI PUC rejected the project as excessive unwarranted cost to consumers. As such a revised RI GA mandated PUC Guidelines for evaluation would result in a PUC votes of approval. Oh. I did not mention the cable TV and internet cable and equipment also incorporated in the package at the RI tax payer and rate payers expense. We would have been better off scraping the wind mills and connecting the power cable to a Ct nuclear power station. So today is the Burrillville Power Station developer now looking for a similar lets make a backroom deal? OBTW the European experiment with wind water & solar (WWS) resulted in an epic finical & technical failure. Why must we replay the epic European socialist WWS failure? Today major (WWS) Wind & Solar vendors in Europe have announced massive reductions and consolidations resulting in significant layoffs. QED.

William F Horan
1 Jean Street
Middletown, RI 02842-4536

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Saturday, January 06, 2018 2:58 PM
To: Bianco, Todd (PUC); Governor (GOV); louis_dipalma@yahoo.com
Cc: captbirdfish@gmail.com; ka1rm@aol.com; dsharp401@gmail.com; mcohen1@cox.net
Subject: [EXTERNAL] : Letter: Dennis Slonka: Despite rhetoric, Invenergy is truly a \"green\" plant

Follow Up Flag: Follow up
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http://providencejournal.com/opinion/20180105/letter-dennis-slonka-despite-rhetoric-invenergy-is-truly-green-plant

Please enter into the file for the Burrillville power station hearings and forward to all RI PUC & Hearing board members etc.

We desperately need the proposed Burrillville dual fueled combined cycle power station.

Sue NY et al for blocking NG pipelines!?
N gas hit $35.35 Tuesday, 13 times more expensive. The equivalent of filling up your car with $32-a-gallon gasoline. NE has insufficient natural gas pipeline capacity to ensure reliable, affordable access to clean-burning, fuel produced in the USA.We are paying more for electricity and home heating, because everyone from local NIMBY environmental extremists to NY Gov. Cuomo has opposed every reasonable proposal to allow us to secure the natural gas pipeline capacity needs. Our region has transitioned much of its power generation in the last decade to natural gas. Data from ISO-grid operator, show that natural gas produces 50+ percent of the electricity on an average day. Since 2000, 200,000 residential customers have switched to or added natural gas now heats more than 54 % in RI. Ct, Me, NH, and Vt have proposals to meet consumers' demand for expanded access to natural gas. Except for a modest increase in capacity on the Algonquin system increased natural gas pipeline capacity has been thwarted from coming anywhere close to meeting demand. In a cold snap like the one we're in, the severe constraints on pipeline capacity lead to price spikes, and natural gas that costs $3 or $4 jumps to $35. Additional pipeline capacity can dramatically reduce those price spikes. utilities are less able to plan ahead if energy markets are volatile. Hence all six NE states rank in the top 10 states for most expensive electricity, up to 50 percent higher than national average.This is a needless problem for NE - just 200 miles east of some of the most abundant, low-cost natural gas in the world / Pa Marcellus Shale region. With adequate pipeline capacity, access to this low-cost fuel can transform our regional economy creating thousands of new jobs..Natural gas is the official designated bridge fuel enabling a time period to bring disruptive technologies like LFTR Thorium nuclear reactors into the power generation mix. Yes an oak Ridge based technology with little waste bi products. The only question is will the USA or China supply this disruptive technology!

William F Horan
1 Jean Street
Middletown, RI 02842-4536

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Sunday, January 07, 2018 5:32 PM
To: Bianco, Todd (PUC); Governor (GOV); louis_dipalma@yahoo.com
Subject: [EXTERNAL] : challenge Letter: Greg Gerritt: Costs of power plant would outweigh benefits

Follow Up Flag: Follow up
Flag Status: Flagged

http://providencejournal.com/opinion/20180106/letter-greg-gerritt-costs-of-power-plant-would-outweigh-benefits

Challenge projo letter re Burrillville power plant proposal
The usual cast of outside professional agitators and myopic local NIMBY victim hood deniers , in their ignorance, do not reflect the common good and general welfare of Rhode Island citizens. The Burrillville combined cycle dual fuel power station hearing has been turned into a contentious if not adversarial circus by these bad actors. Rather than work together for the purpose of realizing a cohesive plan behaviors more associated with a series of red herrings if not Cunard's have been fabricated towards an overall sabotage of the project. Ultimately if one examines the totality of the significant risk mitigated by going forward with this project a decision of approval with prudent stipulations is warranted. Conducting project design & implementation details of a technical and or a business nature as part of a site hearing is a (cart before the horse) distraction serving no useful purpose to the parties assembled or the citizens of RI.

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Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Sunday, January 07, 2018 9:28 PM
To: Bianco, Todd (PUC); Governor (GOV); louis_dipalma@yahoo.com
Cc: rep-mattiello@rilegislature.gov; sen-ruggerio@rilegislature.gov; rep-ruggiero@rilegislature.gov; sen-dipalma@rilegislature.gov; dsharp401@gmail.com; raymondjanssen@aol.com
Subject: [EXTERNAL] : disruptive technologies solution Rhodemap video!! Electric utilities turn to oil in deep freeze!

Follow Up Flag: Follow up
Flag Status: Flagged

http://providencejournal.com/news/20180103/electric-utilities-turn-to-oil-in-deep-freeze@Chickie Keegan

Disruptive technologies solution Rhodemap post natural gas power station bridge.

Wow, Finally some one exhibiting an adult critical thinking skill set and able to communicate!!
I suggested this concept as a work around in communications with the PUC ESB etc. Your math is close enough for a notional discussion. Yes, we already have a few distributed storage and peaking facilities (CNG & LNG). The modernizing of the Providence facilities was recently in the press and received approval at a hearing. Portsmouth RI has an underground peaking facility. However we do need to build redundancy into the gas transmission lines with at least two geographically dispersed transmission line routes. POTUS Obama made the pivot to natural gas & directed EPA to approve so called fracking use. Ngas As a bridge fuel giving us time to secure a disruptive technology for the future The political cult like popular WWS aka wind, water & solar is not a qualifying no CO2 disruptive technology for the future as the math comparing different approaches does not support the over sold hype .

Linked series of videos. Note both Obama and Trump have said they support this but all show and no go.

Mark Z. Jacobson's 100% Renewables (100% WWS) Roadmap to Nowhere by...gordonmcdowell

https://www.youtube.com/watch?v=V2KNqluP8M0&feature=em-uploademaillitics .

Linked next video https://www.youtube.com/watch?v=c7baTdyHv8g Thorium LFTR solutions

(more video links attached keep watching)

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- **William F Horan**
- Rank 0

Deepwater wind & Solar PV snake oil always at the ready to con the gullible as they pick your pockets. Why repeat the socialist European failure of wind, water and solar (WWS). How many times have we heard the untruth of Germany and Denmark as a text book success story deploying WWS.

Energy and power comparison;•
Power is the capacity (of an energy source) to deliver energy. Sources are rated at their peak capacity,
i.e. a coal plant may peak at 1 Giga-Watts capacity. A rooftop solar array may peak at 2 Kilo-Watts capacity.
• Energy is heat, work or electricity delivered to a teapot, a car or a electric motor.
• Capacity Factor is the per cent fraction of time a Source delivers Energy.
• A Baseload plant (coal, nuclear or gas) typically delivers at 90% CF.
• A Solar farm typically delivers at 20% CF.
• A Wind farm typically operates at 30% CF

• Energy:
• A 1 GigaWatt Baseload Plant at 90% CF delivers a 0.9 GigaWatt-years of Energy
• A 1 GigaWatt Wind Farm at 30% CF delivers 0.3 GigaWatt-years of Energy.
• A 1 GigaWatt daytime Solar Farm at 20% CF delivers 0.2 GigaWatt-year of Energy .
• A GigaWatt is 10E9 Watts. A Kilo-Watt is 10E3 Watts . There are one million Kilo-Watts in a Giga-Watt
The average (in US) residential home uses 11,000 KiloWatt-hours of Energy per year. EIA. There are 8760 hours in a year. Therefore a 1 GW source delivering continuously for a year is 8750 GW-hours Energy
Therefore a 1 Giga-Watt source at 100% CF would power 8760 x 10E9 Watt-hrs divided by 11,000 Kilo-Watt hours per home = 800 thousand homes. In New England with less than average home use roughly a million homes

William F Horan

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Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Sunday, January 07, 2018 10:50 PM
To: Bianco, Todd (PUC); Governor (GOV); louis_dipalma@yahoo.com; DinoRobertiRI@gmail.com
Subject: [EXTERNAL] : New England Was Warned 'Pipeline Constraints' Could Cause Problems This Winter. Now It's Happening

Follow Up Flag: Follow up
Flag Status: Flagged

New England Was Warned 'Pipeline Constraints' Could Cause Problems This Winter. Now It's Happening
Posted By Michael Bastasch On 2:22 PM 01/03/2018 In | No Comments
While New England's power grid operator predicted it would have enough energy supplies to meet demand this winter, it admitted there could be problems if record-low temperatures set in.
"While New England has adequate capacity resources to meet projected demand, a continuing concern involves the availability of fuel for those power plants to generate electricity when needed," grid operator ISO New England reported in November.
"During extremely cold weather, natural gas pipeline constraints limit the availability of fuel for natural-gas-fired power plants," the grid operator noted.
That's exactly what is happening right now.
Unrelenting cold since late December has caused energy demand to spike, pushing up prices and straining supplies. New England power companies are struggling to keep up with demand.
New England's current energy woes are the result of years of state and federal policies aimed at closing coal and oil-fired power plants, largely as part of the region's effort to fight global warming.
In 2000, New England got about 18 percent of its electricity from coal plants. Now, the region gets around 3 percent — though it's jumped to 6 percent in the recent cold snap.
The Brayton Point Power Station, New England's largest coal plant, shut down over the summer. Plant operators decided to close the plant in 2013 after putting in expensive cooling towers to cut pollution.
Most of the shuttered capacity has been replaced by natural gas, but pipeline capacity has not kept up with demands from power plants.
When temperatures drop, natural gas demand spikes as residents clamor to stay warm. But, like in 2014, New England's pipeline capacity hasn't expanded enough to fully meet demand during such cold snaps.
Environmentalists have contributed to the problem by protesting large pipeline projects power operators wanted to increase gas deliveries. Things got more complicated when the Massachusetts Supreme Court ruled companies could not enter into long-term gas contracts and pass those costs onto consumers.
The court ruling killed the planned $3 billion Access Northeast pipeline project. The project would have expanded an existing New England pipeline and was expected to save customers $1 billion a year.
A second $3 billion pipeline plan, the Northeast Energy Direct project, was mothballed in 2016 amid stiff political resistance.
Gas supply constraints have made New England the the world's most expensive power market. Some power plants have taken to burning oil to generate power, but supplies are running low. Federal air quality regulations are also keeping power plants from burning more fuel.
"The region's natural gas delivery infrastructure has expanded only incrementally, while reliance on natural gas as the predominant fuel for both power generation and heating continues to grow," the ISO reported in its winter outlook, which was released at the end of November.
"Further, the retirement of a 1,500 MW coal- and oil-fired power plant in May has removed a facility with stored fuel that helped meet demand when natural gas plants were unavailable."
The ISO identified 4,000 megawatts of natural gas power capacity "at risk of not being able to get fuel when needed."
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Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Monday, January 08, 2018 12:12 PM
To: Bianco, Todd (PUC); Governor (GOV); rep-mattiello@rilegislature.gov; sen-ruggerio@rilegislature.com; rep-ruggiero@rilegislature.gov; sen-dipalma@rilegislature.gov
Cc: louis_dipalma@yahoo.com; captbirdfish@gmail.com; dsharp401@gmail.com; dinorobertiri@gmail.com; mcohen1@cox.net
Subject: [EXTERNAL] : Editorial: Curbing pollution in the real world

Follow Up Flag: Follow up
Flag Status: Flagged

http://providencejournal.com/opinion/20180107/editorial-curbing-pollution-in-real-world

Keeping the Burrillville power station proposal in perspective. We must approve that combined cycle dual fueled power station proposal with clearly delinted prudent terms & conditions.

The closure of Brayton point clean coal power station created the energy / electricity price spike for winter & summer high demand. Newspapers have an obligation to be factual. We do need to build redundancy into the gas transmission lines with two geographically dispersed transmission line routes. The state of NY and a gaggle of NE NIMBY & BANANA Environmental terrorists are blocking the 200 miles ROW from the PA/NY gas supply. Ngas is necessarily embracing an imperfect but necessary interim electricity & heating
solution. Additionally local NGas distribution systems must have modernized CNG / LNG storage facilities for high volume users. POTUS Obama made the pivot to natural gas & directed EPA to approve so called fracking. Ngas As a bridge fuel giving us time to secure a disruptive technology. WWS aka wind, water & solar is not a no CO2 disruptive technology. The math comparing different inferior WWS approaches does not support the over sold hype (see video). Your ignorant / negative comments re nuclear power are based in 1940's and not consistent with Oak Ridge Developed Generation IV LFTR Thorium, Nuclear Technology significant reduction in requirement to manage waste byproducts. Today LFTR accelerated implementation by China! The question why is not a rapid development LFTR nuclear assembly line here in the USA as a post Bridge ngas power station disruptive technology? Note; both POTUS Obama and Trump have said they support next generation disruptive nuclear (see video series)
referenced Linked series of videos.
Mark Z. Jacobson's 100% Renewables (100% WWS) Roadmap to Nowhere by...gordonmcdowell
https://www.youtube.com/watch?v=V2KNqluP8M0&feature=em-uploademaillitics .

Linked series - next video https://www.youtube.com/watch?v=c7baTdyHv8g ; Thorium LFTR solutions
(more video links attached keep watching)

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Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Wednesday, January 10, 2018 10:27 AM
To: Bianco, Todd (PUC); dsharp401@gmail.com; Governor (GOV); louis_dipalma@yahoo.com
Subject: [EXTERNAL] : Editorial: Curbing pollution in the real world

Follow Up Flag: Follow up
Flag Status: Flagged

http://providencejournal.com/opinion/20180107/editorial-curbing-pollution-in-real-world
100% Renewables aren't a solution rather it is hokum & a Roadmap to No Where.
The closure of Brayton point regional clean coal power station created the predictable cold snap price spike.. The stopgap is Dual fueled combined cycle power stations like the proposed Burrillville RI facility. We must build redundancy into the gas transmission lines with two geographically dispersed routes. The state of NY and a gaggle of NE NIMBY & BANANA Environmental Extremest are blocking the ~200 miles ROW from the PA/NY. Clearly, Ngas is embracing an imperfect but necessary interim solution. Additionally local NGas distribution systems must have modernized CNG / LNG storage for high demand. POTUS Obama made the pivot to natural gas & directed EPA to approve so called fracking. Ngas as a bridge fuel giving us time to secure a disruptive technology. WWS aka wind, water & solar lacks equivalence in scaleabilty & net net is not a 0 CO2 technology. The math comparing different inferior WWS approaches does not support the over sold hype. The negative mindsets propagated re disruptive technologies like nuclear power are based in 1940's and not consistent with Oak Ridge R&D accomplished for Generation IV LFTR Thorium, Nuclear Technology (significant reduction in requirement to manage waste byproducts & no pressure vessel etc.). Today LFTR Thorium reactors accelerated implementation is a high priority by China! The question why is not a rapid development LFTR nuclear assembly line here in the USA as a "post Bridge ngas" power station disruptive technology?
Mark Z. Jacobson's 100% Renewables (WWS) Roadmap to Nowhere by...gordonmcdowell

https://www.youtube.com/watch?v=V2KNqluP8M0&feature=em-uploademaillitics .

https://www.youtube.com/watch?v=c7baTdyHv8g ; Thorium LFTR solutions

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Wednesday, January 10, 2018 10:30 AM
To: Bianco, Todd (PUC); dsharp401@gmail.com; louis_dipalma@yahoo.com
Subject: [EXTERNAL] : Editorial: Curbing pollution in the real world

Follow Up Flag: Follow up
Flag Status: Flagged

http://providencejournal.com/opinion/20180107/editorial-curbing-pollution-in-real-world

- •
- •

William F Horan

- Rank 0

@Peter Trafton - @Peter Trafton - transparent infomercial consisting of a shopworn propaganda. Socialist Europe today is dealing with the negative economic outcomes from having embarked on a so called 100% renewable road map to no where. Yes, that agenda turned out to be a big nothing burger.Today Europe is retrenching abandoning their massive energy policy misstep. That program was politically popular and temporally provided cover for political entities while vendors turned out a plethora of costly equipment's. Today those vendors are experiencing massive layoffs as the market for their snake oil has imploded. Why must we continue to engage in that European branded group think? The evidence is overwhelming that 100% Alleged renewable is now a RI Branded Rhodemap to nowhere. Yes, a nothing burger. that must be rejected. Mark Z. Jacobson's 100% Renewables (WWS) Roadmap to Nowhere by...gordonmcdowell https://www.youtube.com/watch?v=V2KNqluP8M0&feature=em-uploademaillitics .

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Sunday, January 14, 2018 9:32 PM
To: Bianco, Todd (PUC); Governor (GOV); rep-mattiello@rilegislature.gov; rep-ruggiero@sen-ruggerio@rilegislature.gov; louis_dipalma@yahoo.com; editor@newportri.com
Cc: vanurse3691@gmail.com; captbirdfish@gmail.com
Subject: [EXTERNAL] : R.I. AG Kilmartin announces opposition to Burrillville power plant

Follow Up Flag: Follow up
Flag Status: Flagged

http://providencejournal.com/news/20180112/ri-ag-kilmartin-announces-opposition-to-burrillville-power-plant

todd.bianco@puc.ri.gov,
The RI AG Pet from Sarasota of late has been very busy with his song and dance doing the side step on the white steps aka "RI Rope a dope". Yes, 38 Studio & now The St Joseph - Fatima Hospitals Flips and over 2700 mostly nurses Pensions gone missing .We were surprised to learn of Pets new adventure pandering to a flat earth Society of energy obstruction.. Given that he has a long way yet to go in satisfying the courts instructions to support fact finding for recovering the gone missing Hospital employees pensions from nefarious bad actors . Why would Pet Kilmartin chose the NIMBY BANANA radical left know nothing side of the isle embracing their carefully crafted hokum designed to sabotage our RI energy future. An alternative universe wrong think. Yes,a nothing burger? What might our AG Sarasota Pet Kilmartin be attempting to distract us from? While the AG office has all that dirty laundry of its own making to address Sarasota Pet Marches on HEAD FIRST into the responsibility of the Governor , RI PUC and The Energy siting BOARD! Surly Crime Town The movie and TV series will eventually explain all.

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Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Monday, January 15, 2018 7:22 PM
To: rep-ruggiero@rilegislature.gov; sen-ruggerio@rilegislature.gov; Bianco, Todd (PUC); vanurse3691@gmail.com
Subject: [EXTERNAL] : Fwd: R.I. AG Kilmartin announces opposition to Burrillville power plant

Follow Up Flag: Follow up
Flag Status: Flagged

email correction / update

-----Original Message-----
From: billyhoran <billyhoran@aol.com>
To: todd.bianco <todd.bianco@puc.ri.gov>; governor <governor@governor.ri.gov>; rep-mattiello <rep-mattiello@rilegislature.gov>; rep-ruggiero <rep-ruggiero@sen-ruggerio@rilegislature.gov>; louis_dipalma <louis_dipalma@yahoo.com>; editor <editor@newportri.com>
Cc: vanurse3691 <vanurse3691@gmail.com>; captbirdfish <captbirdfish@gmail.com>
Sent: Sun, Jan 14, 2018 9:31 pm
Subject: R.I. AG Kilmartin announces opposition to Burrillville power plant

http://providencejournal.com/news/20180112/ri-ag-kilmartin-announces-opposition-to-burrillville-power-plant

todd.bianco@puc.ri.gov,
The RI AG Pet from Sarasota of late has been very busy with his song and dance doing the side step on the white steps aka "RI Rope a dope". Yes, 38 Studio & now The St Joseph - Fatima Hospitals Flips and over 2700 mostly nurses Pensions gone missing .We were surprised to learn of Pets new adventure pandering to a flat earth Society of energy obstruction.. Given that he has a long way yet to go in satisfying the courts instructions to support fact finding for recovering the gone missing Hospital employees pensions from nefarious bad actors . Why would Pet Kilmartin chose the NIMBY BANANA radical left know nothing side of the isle embracing their carefully crafted hokum designed to sabotage our RI energy future. An alternative universe wrong think. Yes,a nothing burger? What might our AG Sarasota Pet Kilmartin be attempting to distract us from? While the AG office has all that dirty laundry of its own making to address Sarasota Pet Marches on HEAD FIRST into the responsibility of the Governor , RI PUC and The Energy siting BOARD! Surly Crime Town The movie and TV series will eventually explain all.

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Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Friday, January 19, 2018 11:00 PM
To: Bianco, Todd (PUC); Governor (GOV); captbirdfish@gmail.com; DinoRobertiRI@gmail.com
Subject: [EXTERNAL] : New England Faces More Blackouts As Power Plants Close, Pipelines scuttled

Follow Up Flag: Follow up
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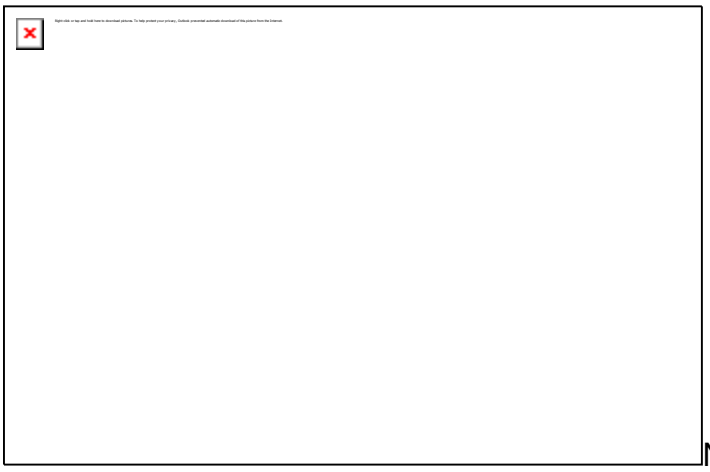
WRITTEN BY MICHAEL BASTASCH ON JANUARY 19, 2018. POSTED IN ACTIVISM, ENERGY, LATEST NEWS, POLITICS

REPORT: New England Faces More Blackouts As Power Plants Close, Pipelines scuttled



New England is facing an energy future of “rolling blackouts and controlled outages” by 2025 as more power plants close down and pipeline capacity continues to lag behind.

The new report by the New England’s grid operator comes after the region suffered through a frigid start to the new year that pushed up prices and strained energy supplies. It could be just a taste of the region’s future.

“Taken together, the study results suggest that New England could be headed for significant levels of emergency actions, particularly during major fuel or resource outages,” ISO New England found in a new study,

“Harder to measure are the risks to the region from brief, high-demand cold spells, which present particular logistical challenges for fuel procurement and transportation,” the study found.

ISO's study found "retirements of power plants with stored fuel, tightening emissions restrictions, and the reliance on a fuel that may not be available when needed most are all challenging New England's power system," especially during extreme cold spells.

New England has increasingly become reliant on natural gas, which is mainly supplied through pipelines and liquefied natural gas imports. But without adequate pipeline capacity, power plants strain to keep the lights on.

Environmentalists have played a major role in killing pipeline projects meant to bring natural gas to the northeast. New Englanders can also thank Democratic New York Gov. Andrew Cuomo for the lack of pipeline capacity.

Cuomo's taken a hardline stance against new natural gas pipelines, including those running through his state to New England. Cuomo's blocked at least three major pipeline projects in the past two years.

As Cuomo mulls a presidential bid in 2020, he's become more conscious of critics on his left, including environmentalists who oppose all fossil fuel pipelines.

"What New York has shown is a model for examining the potential impacts to clean water of pipelines," Amy Mall, a senior policy analyst at the Natural Resources Defense Council, told Politico. "They've done it in a way that is methodical and comprehensive and sufficiently rigorous to understand what the risks are."

New Englanders suffered through some of the highest energy costs in the world because of political opposition to more pipelines. In the future, it could mean losing power.

The region's grid operator found "all but the most optimistic case resulted in load shedding, also known as rolling blackouts or controlled outages that disconnect blocks of customers sequentially."

"Load shedding is implemented as a last resort to protect the grid," ISO New England's study found. "All but three of the single-variable cases resulted in some degree of load shedding."

Temperatures began to drop around Christmas, and extreme cold continued through the new year. Most of the eastern U.S. saw a top five coldest start to the new year on record, which was followed by a big nor'easter storm.

But New England's energy risks are nothing new. The region struggled to keep the heat and lights on during the 2014 "polar vortex" and an ISO report from November warned that "pipeline constraints" would "limit the availability of fuel for natural-gas-fired power plants."

As natural gas use increases, coal- and oil-fired power plants have retired in recent years, in part due to state and federal policies favoring green energy. Federal environmental regulations have also played a role as has the drop in natural gas prices.

New England's Pilgrim nuclear power plant is slated to close in 2019, much to the excitement of environmentalists. But again, it will put more strain on the electric grid during episodes of extreme cold.

"Fuel-security risks may be acuter in New England than in most other regions because New England is 'at the end of the pipeline' when it comes to the fuels used most often to generate the region's power," the ISO's new study found.

"New England has no indigenous fossil fuels and therefore, fuels must be delivered by ship, truck, pipeline, or barge from distant places," reads the report, which only analyzed an incremental increase in pipeline capacity by 2025.

Read more at Daily Caller

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Tuesday, January 23, 2018 12:12 AM
To: towncouncil@middletownri.com; Bianco, Todd (PUC); editor@newportri.com
Subject: [EXTERNAL] : The Latest: Solar panels issues

Follow Up Flag: Follow up
Flag Status: Flagged

http://providencejournal.com/news/20180122/latest-solar-panels-washing-machines-hit-with-tariffs

Solar PV installations should be subjected to local property taxes and be required to secure a hazardous materials / waste disposal bond and liability insurance covering those systems especially roof top installations. The concerns include[Mitigation for likelihood of becoming dangerous airborne missiles during especially traditional regional heavy weather events. Annual mechanical and electrical inspections / certification must also be implemented at the property owners expense. Finally special HAZMAT procedure also covering both house fires & physical PV panel structural failure events on buildings fitted with such ancillary electrical generating equipment's must be implemented for prudent public safety considerations.

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Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Wednesday, February 07, 2018 9:00 PM
To: louis_dipalma@yahoo.com; Governors News Link; rep-mattiello@rilegislature.gov; rep-ruggiero@rilegislature.gov; sen-ruggerio@rilegislature.gov; Bianco, Todd (PUC); sen-dipalma@rilegislature.gov
Cc: rep-mattiello@rilegislature.gov; rep-ruggiero@rilegislature.gov; sen-ruggerio@rilegislature.gov; Bianco, Todd (PUC); sen-dipalma@rilegislature.gov
Subject: [EXTERNAL] : Fwd: IWT GENERATOR BLOW BACK. IN MA.

Follow Up Flag: Follow up
Flag Status: Flagged

SOLAR and wind aren't a viable emplacement for the Burillville power station.
Take heed wind in RI is a political third rail with solar soon to follow.The evidence is overwhelming 100% renewable is a RI Branded Rhodemap to nowhere that must be rejected. Mark Z. Jacobson's 100% Renewables (WWS) Roadmap to Nowhere by...gordonmcdowell
https://www.youtube.com/watch?v=V2KNqluP8M0&feature=em-uploademaillitics .

WWS is low energy density & unscaleable to replace other forms of electrical generation.
Why repeat the socialist European failure of wind, water and solar (WWS).
click on the URL above and watch the video.

-----Original Message-----
From: Dino Roberti <dinorobertiri@gmail.com>
To: William Horan <billyhoran@aol.com>
Sent: Wed, Feb 7, 2018 7:06 pm
Subject: Re: IWT GENERATOR BLOW BACK. IN MA.

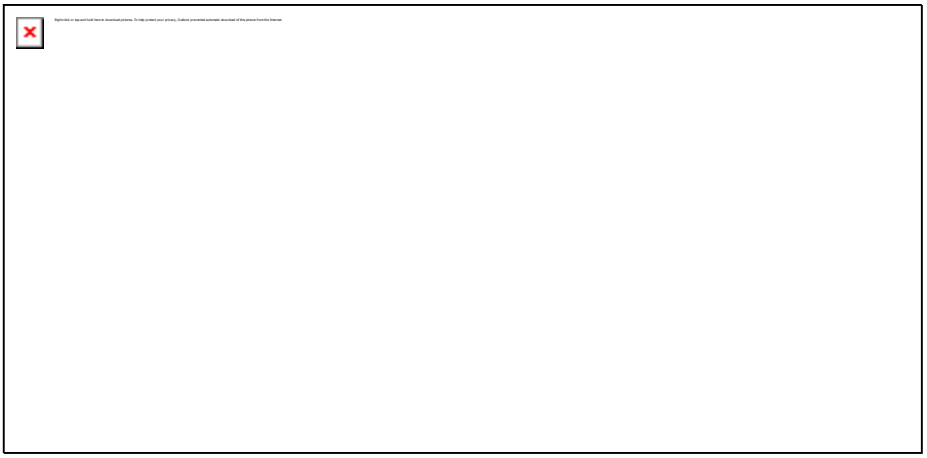
Wow! Sets the precedence.

On Feb 7, 2018 5:02 PM, <billyhoran@aol.com> wrote:

You are here: Home / Big wind industry / Falmouth's Victory: Noisy Community Destroying Wind Turbines to Be Demolished

Falmouth's Victory: Noisy Community Destroying Wind Turbines to Be Demolished

January 25, 2018 by stopthesethings 9 Comments



Back in November 2013, we reported on the orders made by a Court in Falmouth, Massachusetts that pulled to a halt the operation of a couple of Vestas V82s that have been driving townspeople nuts, since they kicked into gear almost 7 years ago (see our post here).

We've also reported on Barry Funfar, a former Marine whose own country has forsaken him and his family, by aiding and abetting the local wind power outfit to ride roughshod over the rules; and decent Americans, like Barry (see our post here).

We gave an update on the Falmouth case in March 2015:

US Wind Farm Litigation: Update on the Falmouth Case

And again in April 2015:

Wind Turbine Infrasound: an "Acoustic Trespasser"

And again in September 2015:

Wind Farm Nuisance Case: Falmouth Zoning Board Orders Turbine Shutdown

In June last year, a Judge ordered that the town's tormentors be permanently shut down for the noise nuisance they cause:

Locals Ecstatic: Judge Shuts Down Falmouth Wind Turbines

And now it seems the townsfolk can declare final and total victory, as dynamite charges are laid and bulldozers are called in to demolish the source of so much utterly unnecessary misery and suffering.

Cape Cod officials clearing way to pull down unpopular 400-foot-tall wind turbines

MassLive

Phil Demers

21 December 2017

Two deeply unpopular 400-foot-tall town-owned wind turbines on Cape Cod are coming down, or at least that's what town officials are clearing the way to see happen.

The first turbine, Wind 1, turned off in 2015 due to lack of a special permit, is legally dormant by the letter of the town's wind energy bylaw and should be pulled down says a nearby resident's written request to the building inspector, which is being heeded by town officials. The bylaw says wind turbines dormant for 12 months are considered abandoned and can be removed.

According to The Cape Cod Times, Falmouth officials now have until May 31 to come up with a plan to bring down the structure.

Erected at the town's wastewater treatment facility on Blacksmith Shop Road in 2010 and 2012, respectively, the turbines elicited immediate and continued backlash from neighbors, who said their property values were plummeting and claimed to be suffering health issues from living near the structures.

The second turbine was shut off in June, and will face a similar fate once a year of dormancy is up, according to The Times.

Ill health effects in humans caused by proximity to large-sized wind turbines have yet to be scientifically confirmed, but sufferers complain of anxiety, headaches, depression, poor sleep, annoyance and other symptoms, which they say are caused by vibrations and noise coming off the huge machines.

The state Department of Environmental Protection studied the issue of noise coming from the turbines in 2012, releasing a report which concluded nearby residents were experiencing elevated noise levels and recommending the project be shut down.

The Falmouth project, one of the first of its kind in the nation, opened many people's eyes around the country to the scope and nature of wind turbine opposition among people who live very close by, and posed an interesting question to those involved in alternative energy public policy.

Masslive

Barry Funfar: his twin tormentors to be destroyed once & for all.

Phil Demers reckons that "Ill health effects in humans caused by proximity to large-sized wind turbines have yet to be scientifically confirmed".

The long-suffering folk from Falmouth, like Barry Funfar – and the thousands more like them suffering the same kind of experiences around the globe – aren't crazy and they aren't imagining things. Precisely the same kind of evidence from long-suffering wind farm neighbours was presented by the Waubra Foundation to Australia's Administrative Appeals Tribunal (AAT).

The AAT held that the "noise annoyance" caused by wind turbine generated low-frequency noise and infrasound "is a plausible pathway to disease" based on the "established association between noise annoyance and some diseases, including hypertension and cardiovascular disease, possibly mediated in part by disturbed sleep and/or psychological stress/distress." The AAT also slammed wind turbine noise standards as irrelevant and, therefore, totally unfit for purpose: Australian Court Finds Wind Turbine Noise Exposure a 'Pathway to Disease': Waubra Foundation Vindicated

What this case proves is that the law works. All it takes is communities with the temerity to use it.

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Filed Under: Big wind industry, Big wind politics, Health, Litigation, noise, USATagged With: Adverse Health Effects of wind turbines, Falmouth injunction turbines, Falmouth wind farm, Falmouth wind turbine litigation, law of nuisance and noise, litigation against turbine hosts, litigation against wind farm noise consultants, Litigation against wind turbine manufacturers, litigation shuts down turbines, Noise nuisance wind farms, Sleep disturbance wind turbine noise,turbine noise nuisance, Waubra Foundation AAT decision, wind farm litigation,wind farms sleep deprivation, Wind turbine noise and adverse health effects

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Community Backlash Against Big Wind: Massachusetts Residents' Unanimous Vote Blocks Future Wind Projects »

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Thursday, February 08, 2018 4:00 PM
To: Bianco, Todd (PUC); Governor (GOV); louis_dipalma@yahoo.com; rep-mattiello@rilegislature.gov; sen-ruggerio@rilegislature.gov; rep-ruggiero@rilegislature.gov; editor@newportri.com
Cc: captbirdfish@gmail.com; DinoRobertiRI@gmail.com
Subject: [EXTERNAL] : Editorial: A warning of coming blackouts / Burrillville power station ESB Hearings

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Editorial: A warning of coming blackouts

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OUR PICKS

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Posted Feb 7, 2018 at 5:43 PMUpdated Feb 7, 2018 at 5:43 PM

There are many moving parts in the system that brings electricity to homes, schools and businesses throughout New England, and each plays an important role. But the reliability of that system, or lack thereof, revolves largely around one factor: the ability of the region's power plants to get the fuel they need to produce electricity.

As a report released last month by ISO New England, the nonprofit manager of the region's energy grid, makes clear, this is New England's weak link.

Yes, wind and solar — aided by significant taxpayer subsidies — play a small but growing role in producing the region's electricity, and advances in energy storage may one day help them to play a much larger role. But that doesn't change the fact that natural gas is used to produce about half of the region's electricity, and will be needed in the foreseeable future. Therein lies the problem.

While our reliance upon natural gas has grown dramatically — it accounted for just 15 percent of the region's electricity production in 2000 — our ability to get natural gas has barely budged. The United States has plentiful, cheap supplies just to our south and west, notably in Pennsylvania, but New England is literally at "the end of the pipeline."

Activists have helped block pipeline expansions that would have brought more natural gas to the region. Meanwhile, with the closure of plants that run on oil, coal and nuclear power, the region's need for natural gas is growing.

The results are already bad. The short supply of natural gas during the winter months forces some plants to shift from natural gas to oil and coal, which cause much more pollution. The short supply has also resulted in brutally high prices for natural gas and electricity — as anyone who has looked at his or her energy bill lately can confirm. The New England region, burdened with the highest electricity prices in the continental United States, also faced the highest spot prices for natural gas in the *world* during the recent December-to-January cold spell.

But the worst is yet to come, according to the ISO New England report.

As demand for natural gas continues to grow, New England is expected to suffer rolling blackouts during cold spells. Even "significant increases" in shipments of liquefied natural gas and the increased use of renewables will not meet the demand, the 56-page report warns. Imagine having no electricity and trying to keep your family warm during a fierce cold spell.

In short, our leaders are playing a dangerous and cowardly game when they put politics ahead of reality, in appeasing well-funded, vocal activists and BANANAs (Build Absolutely Nothing Anywhere Near Anyone). We yearn for the day when we can get the energy we need without using any fossil fuels. But it's suicidal to simply pretend we are already there.

To protect the public, leaders must expand the region's pipeline capacity. While that is being done, they must also increase the supply of liquefied natural gas and imported electricity. Magical thinking will not pay our bills or keep our children warm at night.

As the report notes: "The health and safety of New England's 14 million residents and the vibrancy of its economy depend on a reliable power supply, and that requires fuel security — that is, a reliable supply of the various fuels used to generate the region's electricity."

http://providencejournal.com/opinion/20180207/editorial-warning-of-coming-blackouts

- •
- •

William F Horan

- Rank 0

The quantitative and qualitative
comparison for energy and power allows us to make fact based decisions critical to our collective well being.
Energy and power comparison;•
Power is the capacity (of an energy source) to deliver energy. Sources are rated at their peak capacity,
i.e. a coal plant may peak at 1 Giga-Watts capacity. A rooftop solar array may peak at 2 Kilo-Watts capacity.
• Energy is heat, work or electricity delivered to a teapot, a car or a electric motor.
• Capacity Factor is the per cent fraction of time a Source delivers Energy.
• A Baseload plant (coal, nuclear or gas) typically delivers at 90% CF.
• A Solar farm typically delivers at 20% CF.
• A Wind farm typically operates at 30% CF
• Energy:
• A 1 GigaWatt Baseload Plant at 90% CF delivers a 0.9 GigaWatt-years of Energy
• A 1 GigaWatt Wind Farm at 30% CF delivers 0.3 GigaWatt-years of Energy.
• A 1 GigaWatt daytime Solar Farm at 20% CF delivers 0.2 GigaWatt-year of Energy .
• A GigaWatt is 10E9 Watts. A Kilo-Watt is 10E3 Watts . There are one million Kilo-Watts in a Giga-Watt
The average (in US) residential home uses 11,000 KiloWatt-hours of Energy per year. EIA. There are 8760 hours in a year. Therefore a 1 GW source delivering continuously for a year is 8750 GW-hours Energy
Therefore a 1 Giga-Watt source at 100% CF would power 8760 x 10E9 Watt-hrs divided by 11,000 Kilo-Watt hours per home = 800 thousand homes. In New England with less than average home use roughly a million homes.« less

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- **Benjamin C. Riggs**

- Rank 152

Apparently the wind/solar lobby has corrupted our politicians so completely that the result will not just be an economic ripoff, but the threat of dangerous power shortages. National Grid and the RIPUC have been the cheerleaders for this, and now they will hike our prices even more to compensate. For on-demand renewable hydroelectric power, we need transmission lines from Quebec. For gas, we need pipelines and a plant in Burriville. Is anyone listening?

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- **William F Horan**

- Rank 0

While this overdue editorial on a Ngas supply blockade to RI is welcomed - let us be factual as to the politically popular but defective approach of Wind and solar electricity generation. The solar & wind sales army continues to live off of the ignorance of both our elected officials, citizens & public utility rate payers. Yes, a politically popular SCAM. Solar and wind have been a constant 2% of energy delivered during the past 14 years and that percentage is declining even as the number of installs increased "exponentially". The "holy scripture" quote from ClimateReatyProject.org: i.e. 'Solar capacity has increased "4800% in the past 10 years'.. Probably true but on a percentage basis the energy delivered (at CapFactor 0.20 and low density around 10W/sq meter) has declined about 4 % over the same period as the world cut its nukes and upped its fossil (EnvironmentalProgress.org). The evidence is overwhelming renewable is a RI Branded Rhodemap to nowhere that must be rejected. Mark Z. Jacobson's Renewables (WWS) Roadmap to Nowhere by...gordonmcdowell (see the video url below...

https://www.youtube.com/watch?v=V2KNqluP8M0&feature=em-uploademaillitics .

WWS is low energy density & unscaleable to replace other forms of electrical generation.
Why repeat the socialist economic time bomb European failure of wind, water and solar (WWS).« less

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- **William F Horan**
- Rank 0

Two alternate Natural Gas transmission lines from PA across NY and into MA et al APPROVALS have been sabotaged by well organized & FINANCED (BY NEFARIOUS SOURCES) environmental extremest / terrorists and their recruited local victim hood marchers. Today, We are facing interference BY SOME OF THOSE BAD ACTORS with the hearing process at the RI PUC Energy siting board for a CRITICALLY NEEDED local Burrillville combined cycle natural gas fueled power station. As well the premature closure of the Brayton Point modernized clean coal power station has placed New England on the knife edge of rolling blackouts and companion energy poverty - economic calamities. The federal GOVERNMENT, in the last administration declared Natural Gas the designated bridge fuel of choice especially for the north east and New England. OBTW the EPA after countless examination approved so called fracking technologies, contrary to urban legend. Perhaps it is time for RI AG Sarasota Pet Killmartin to examine options for legal action re a Ngas blockade. That is if the RI AG has the time away from figuring out how the 2730 nurses pensions (under state regulation responsibility) went missing and has devised a pension recovery plan.« less

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- **Ralph Mace**
- Rank 2

To be sure, we can than Barack (I'll make the cost of power skyrocket) Obama and the environmentalist wack-o's for the shutdown of Brayton Point. And I'm sure that the taxpayers of Somerset will also be just delighted to see their property taxes jump as well.

- 8 hours ago
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Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Friday, February 09, 2018 11:31 PM
To: Bianco, Todd (PUC); Governor (GOV); editor@newportri.com
Cc: rep-mattiello@rilegislature.gov; rep-ruggiero@rilegislature.gov; sen-ruggerio@rilegislature.gov; sen-dipalma@rilegislature.gov; captbirdfish@gmail.com
Subject: [EXTERNAL] : Burrillville power station My Turn: Karen Harbert: New England's needless energy crisis

Follow Up Flag: Follow up
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todd.bianco@puc.ri.gov,

Several eye opening articles concerning RI energy and electrical power & The Burrillville power station proposal have been published in PROJO over the past few weeks.

Rhode Island citizens have grasped the big picture!

I encourage the RI State leadership to take this all very seriously.

The proposed Burrillville power station and its ancillary support structure unfortunately has been delayed and distracted from the intended important RI PUC EFSB processes. We can little afford to allow this project to become another lost opportunity for Rhode Island.

Thank you for your attention,
William F Horan
Middletown, RI 02842-4536

http://providencejournal.com/opinion/20180208/my-turn-karen-harbert-new-englands-needless-energy-crisis

- •
- **William F Horan**
- Rank 0

@Chickie Keegan So you think that it is bad to provide Ngas to new England and possible export beyond New England?!!!! Smells like an agenda of illegal interference with commerce in deliberately blocking Ngas from reaching New England and its coast ports. So, if accurate then, what nefarious collection of low life rats is running this RICO like sabotage / blockaded of eastern US NGas distribution ? Yes. a scam against the American Citizens? Perhaps not very hard to figure out! Just follow the money trails especially among alleged environmental extremist advocates organizations coffers. Sounds like yet another investigation for the US Congress and POTUS Donald J Trump Justice Department. While at it look into who is killing disruptive technologies suitable for the post NGas bridge period e.g. Oak Ridge developed generation IV Thorium nuclear technologies et al! - QED.

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Wednesday, February 14, 2018 9:14 AM
To: editor@newportri.com; Governor (GOV); louis_dipalma@yahoo.com; rep-ruggiero@rilegislature.gov; sen-ruggerio@rilegislature.gov; rep-mattiello@rilegislature.gov; towncouncil@middletownri.com; Bianco, Todd (PUC)
Subject: [EXTERNAL] : R.I. poised to take 400-megawatt step toward renewable-energy goal

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http://providencejournal.com/news/20180205/ri-poised-to-take-400-megawatt-step-toward-renewable-energy-goal

This magical thinking will not be a replacement for the Burrillville combined cycle power station.

Gov Gina SCAM $
400 mega watts plate output power X 0.20 capacity factor = 80 mega watts of power delivered annually!
The evidence is overwhelming 100% renewable is a RI Rhodemap to nowhere that must be rejected.

M Z Jacobson's 100% Renewables (WWS) Roadmap to Nowhere by...gordonmcdowell
https://www.youtube.com/watch?v=V2KNqluP8M0&feature=em-uploademaillitics .

Solar is low energy density & unscaleable forms of electrical generation. Solar and wind have been a constant 2% of energy delivered during the past 14 years and that percentage is declining even as the number of installs increased "exponentially". I just added a "holy scripture" quote from ClimateReatyProject.org: i.e. 'Solar capacity has increased "4800% in the past 10 years'.. Probably true but on a percentage basis the energy delivered (at CapFactor 0.20 and low density around 10W/sq meter) has declined about 4 %

William F Horan
1 Jean St
Middletown, RI 02842-4536

Energy and power comparison;•
Power is the capacity (of an energy source) to deliver energy. Sources are rated at their peak capacity,
i.e. a coal plant may peak at 1 Giga-Watts capacity. A rooftop solar array may peak at 2 Kilo-Watts capacity.
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• A Solar farm typically delivers at 20% CF.
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• A 1 GigaWatt Wind Farm at 30% CF delivers 0.3 GigaWatt-years of Energy.
• A 1 GigaWatt daytime Solar Farm at 20% CF delivers 0.2 GigaWatt-year of Energy .
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Therefore a 1 Giga-Watt source at 100% CF would power 8760 x 10E9 Watt-hrs divided by 11,000 Kilo-Watt hours per home = 800 thousand homes. In New England with less than average home use roughly a million homes.

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Friday, February 16, 2018 10:17 PM
To: Bianco, Todd (PUC); Governor (GOV); louis_dipalma@yahoo.com; rep-mattiello@rilegislature.gov; rep-ruggiero@rilegislature.gov; sen-ruggerio@rilegislature.gov; editor@newportri.com
Cc: towncouncil@middletownri.com
Subject: [EXTERNAL] : Letter: Steven E. Miller: Burrillville - New / England has no gas pipeline crisis

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http://providencejournal.com/opinion/20180216/letter-steven-e-miller-new-england-has-no-gas-pipeline-crisis

The facts, confluence of events and the numbers do not support you opinion or hypothesized alternatives you have alluded to.. Two additional Natural gas transmission line routes from the PA/NY area into New England have been opposed by a well funded environmental extremist apparatus, bad actors and locally recruited victim hood marchers for a number of years. Finally you have not accurately characterized the depth and breath of the LNG alternative present state or realistic options. Like the attempted sabotage of the Burrillville combined cycle dual fuel capability power station hearings in an earlier time frame - Some of the same bad actors applied a similar protracted interference in assembly of viable LNG options for New England & especially RI & MA.. We need the Burrillville combined cycle power station & we need the additional Ngas pipe lines, plus companion conversion facilities allowing efficient local back up storage via Ngas to LNG conversion in appropriate quantities. The opportunity to bring bulk LNG to RI and or SE MA via ship requiring a seaport NGas terminal have already been squandered. We truck small quantities / batched LNG to RI for small local peaking for end user Ngas distribution lines. We can;t afford to squander a viable affordable and predictable energy future for RI & New England. See my other post under the projo story url e.g. solar & Wind is a fools journey once one examines the numbers.

William F Horan
1 Jean Street
Middletown, RI 02842-4536
billyhoran@aol.com
401 846 5732

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Saturday, February 17, 2018 8:14 PM
To: Bianco, Todd (PUC); Governor (GOV); louis_dipalma@yahoo.com; rep-mattiello@rilegislature.gov; rep-ruggiero@rilegislature.gov; sen-ruggerio@rilegislature.gov; towncouncil@middletownri.com; captbirdfish@gmail.com; DinoRobertiRI@gmail.com; sen-dipalma@rilegislature.gov
Subject: [EXTERNAL] : Burrillville power station - Letter: Robert A. Benson Jr.: Our region needs new and improved nuclear plants

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http://providencejournal.com/opinion/20180217/letter-robert-a-benson-jr-our-region-needs-new-and-improved-nuclear-plants

todd.bianco@puc.ri.gov,
Todd
The referenced projo letter and my companion takeaway puts in perspective;
a) Why we need to go forward with he critical bridge to the future (Burrillville Power Station) buying time for
b) What many of us believe is possible if the commitment is made and
c) Conditions are put in place to support the modern implementation & deployment of a disruptive technology that
d) Realizes a cleaner, affordable, predictable and reliable source of energy and its conversion to electrical power..

The Oak Ridge developed Thorium LFTR generation IV Fission Reactor was yesterdays and still is today & tomorrows leading candidate disruptive technology. Today we must continue, in the interim, a struggle to install an interim bridge power generation e.g. combined cycle natural gas power stations fueled with domestic natural gas..Both the Ngas transmission (pipe) lines from PA & across NY & local Ngas fueled power stations are opposed! This Ngas bridge keeps the lights on providing time to assemble a cogent plan reflecting tactics and a strategy for an affordable, predictable and realizable implementation & deployment of generation IV Fission aka Thorium LFTR Reactor power stations.

This effort has many components that must be efficiently addressed while time is of the essence. The Federal & State government must pivot and address this undertaking that has self evident domestic and international benefits. To accomplish this pivot we must first reject what has become a nefarious cartel of NO .The bright future has been opposed by a well funded environmental extremist apparatus, bad actors and locally recruited victim hood marchers ("true believers") for a number of years. We must first reject counter productive influences actually said to be funded in part by competing energy sources et al with resources capable of even influencing congress for self interest over the nations best & common interest!

We must be mindful that abundant energy its efficient conversion and distribution at competitive rates remains the underpinning of our modern nation.

Congress must repair the technological foundation that was relegated to an almost superficial role with eroding responsibility or influence before (read the book) "Thorium cheaper than coal" can be realized.

William F Horan
Life member IEEE Providence Section
Member Providence Section Exe Com
Engineering Fellow & Sr Mgr retired

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Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Friday, February 23, 2018 11:45 PM
To: Bianco, Todd (PUC); Governor (GOV); rep-mattiello@rilegislature.gov; rep-ruggiero@rilegislature.gov; sen-ruggerio@rilegislature.gov; sen-dipalma@rilegislature.gov; towncouncil@middletownri.com; editor@newportri.com; louis_dipalma@yahoo.com
Cc: dinorobertiri@gmail.com; ka1rm@aol.com; captbirdfish@gmail.com
Subject: [EXTERNAL] : energy and power ebb & flow

Follow Up Flag: Follow up
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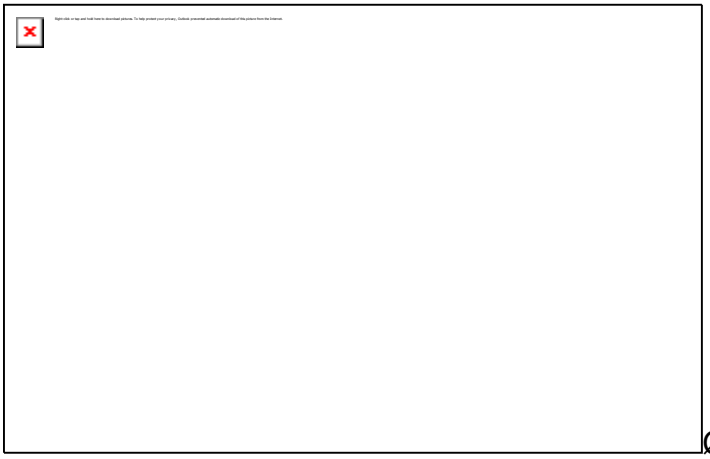
WRITTEN BY DR. BENNY PEISER, GWPF, GUEST POST ON FEBRUARY 23, 2018. POSTED IN CLIMATE, ENERGY, LATEST NEWS, MONEY, RENEWABLES

Wind Industry Faces Billions In Early Repair Costs



Ørsted must repair up to 2,000 wind turbine blades because the leading edge of the blades has become worn down after just a few years at sea.

Siemens Gamesa also does not want to comment on the costs, but the company's Danish subsidiary has just provided 4.5 billion Danish Krone ($750 million) or 16% of its revenue to guarantee its commitments.

It is far from just the Anholt Park that is affected. The blades at several British Ørsted offshore wind farms must also be repaired after just a few years on the water. —Jillands-Posten, 23 February 2018

Forget Paris: Global Fossil Fuel Consumption To Rise By 20% By 2040, BP Energy Outlook: Under the ET scenario, fossil fuel consumption continues to rise steadily from 11354 Mtoe in 2016 to 13308 Mtoe in 2040, an increase of 17%. The biggest increases occurred in Asia, mainly outside of China. Fossil fuel consumption in the US only falls slightly by 3%. And even in the EU,

fossil fuels still account for 59% of primary energy in 2040. —Paul Homewood, Not A Lot Of People Know That, 22 February 2018

In Germany 2017 was the weakest year for solar thermal collector sales in more than a decade, according to the combined statistics by associations BDH and BSW-Solar. Their data reveals that only 78,000 systems were sold last year. The newly installed collector area added up to 625,000 m², down 16 % from 2016 and as much as 72 % from the boom year of 2008. —Sun & Wind Energy, 20 February 2018

George Soros made big investment bets on fossil fuel companies in the fourth quarter of 2017 even though he claims these firms contribute to climate change, according to a Daily Caller News Foundation investigation. —Richard Pollock, Daily Caller, 19 February 2018

The collapse of the oil industry in California, once our second-most-important producing state, is a very sad thing to see. The U.S. shale revolution has completely passed the state by. Although domestic crude oil production has reached heights not seen since the early-1970s, and will actually be setting new records this year, California's oil output has plummeted nearly 60% since peaking in 1985 — with no sign of reversing. In stark contrast, mighty Texas has seen its crude production triple since 2010 alone to 3.6 million b/d. —Forbes, 20 February 2018

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Monday, February 26, 2018 10:47 PM
To: captbirdfish@gmail.com; dinorobertiri@gmail.com; Bianco, Todd (PUC)
Subject: [EXTERNAL] : Anti-Energy Activism

Follow Up Flag: Follow up
Flag Status: Flagged

WRITTEN BY STEPHEN MOORE ON FEBRUARY 26, 2018. POSTED IN ACTIVISM, ENERGY, LATEST NEWS, MONEY, POLITICS

Left Blames Trump For Higher Heating Costs, Not Their Anti-Energy Activism

This has been colder than usual winter in the Midwest and Northeast, so many Americans are facing high home heating and electric bills. In some areas, these bills can reach $1,000 a month.

Liberals charge that President Trump, of course, is the culprit. An AP story last week screamed: “Trump Once Again Wants to Cut Energy Assistance to the Poor.” Vermont Sen. Bernie Sanders charged that if Mr. Trump has his way and eliminates the Low Income Heating Assistance Program, people might “literally freeze to death” (sic.)

But wait. Donald Trump is pro-American energy development. He isn’t the one who is making energy bills more expensive in the Northeast and in the mountain states. It’s the liberal green groups and politicians like Bernie Sanders who accede to their anti-fossil fuel demands.

In my book “Fueling Freedom,” my coauthor Kathleen Hartnett White and I discovered that the shale gas revolution lowered the price of natural gas by about two-thirds (from $10 to $3 per million cubic

feet). This, in turn, has meant big savings in electricity and home heating costs from where they were a decade ago.

We calculated the benefits to poor households from these lower prices and estimated about $10 billion of consumer savings each year from shale gas. The annual budget for the LIHEAP program is about $3 billion. So shale gas is saving poor families three times what LIHEAP does.

Yet the very left-wing politicians who say how shameful it is to cut energy assistance, are the ones who want America to stop producing shale gas by banning fracking and other modern drilling technologies that make natural gas so cheap.

Cheap natural gas from fracking also benefits millions more poor families than does LIHEAP. The government estimates that about 6 million poor families receive LIHEAP each year. But there are at least 20 million low-income families in America. Cheap natural gas lowers costs for all families, while fed assistance only benefits the ones who sign up for government handouts.

If the goal is to provide cheap energy for low-income Americans, fracking is many times more effective than LIHEAP.

The story doesn't end there. Home heating and electric bills would be much cheaper still for poor families without so-called renewable energy standards — pushed by greens and liberal politicians at the state and local levels.

The Manhattan Institute has found that states with these wind and solar mandates have had much larger hikes in utility costs than states without them. New York, which is revving up its green energy policies, charges its residents 40 percent more for electric power than the national average.

I'm still not done. Professor Bernard Weinstein of SMU has examined why utility prices have spiked so much in the Northeast. He found that "New England and New York are using imported liquefied natural gas (LNG), which is much more expensive than domestic gas, to satisfy nearly 20 percent of their heating and electric power needs. Some of this imported gas has come from Russia, despite current international sanctions."

Imported natural gas? How can a nation with massive deposits of very cheap natural gas in places like the Marcellus shale in Pennsylvania and West Virginia be importing natural gas?

One reason is that we don't have pipelines to transport the natural gas inexpensively to the Northeast. Environmentalists who hate oil and gas have spent years blocking this vital infrastructure — not just the Keystone Pipeline, but many others that should be transporting shale oil and gas efficiently across the country.

It doesn't seem to bother the green groups that the biggest victims of anti-fossil fuel policies are low and middle-income Americans. Never has.

Environmentalism is effectively a regressive tax on America's poorest households — and imposed upon them by liberal politicians and the rich liberals who fund them — people like Democratic donor extraordinaire Tom Steyer.

Amazing, isn't it, that this same crowd turns around and attacks Mr. Trump for forcing poor people to pay more for energy and possibly condemning them to freeze to death. If you have sticker shock when you pay your energy bill this month, at least you now know who to thank — and it ain't Donald Trump.

Read more at Washington Times

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Thursday, March 01, 2018 12:47 AM
To: Governor (GOV); louis_dipalma@yahoo.com; rep-mattiello@rilegislature.gov; rep-ruggiero@rilegislature.gov; sen-ruggerio@rilegislature.gov; sen-dipalma@rilegislature.gov; Bianco, Todd (PUC)
Cc: captbirdfish@gmail.com; dinorobertiri@gmail.com
Subject: [EXTERNAL] : Energy - Rhode Islanders to feds: No off-shore drilling here

Follow Up Flag: Follow up
Flag Status: Flagged

http://providencejournal.com/news/20180228/rhode-islanders-to-feds-no-off-shore-drilling-here

- **William F Horan**
- Rank 0

1-2
RI Gov Raimondo & The rub raw alt radical left (regardless of facts) turn out their willing political true believers assembled into clueless victim hood marchers.

OBTW Ramindos off shore wind is a fools folly based on the massive premature failure of life cycle 25 years now 12 years. Turbine blades prematurely failing including; Denmark, Germany and UK. Major mfg has reduced staff by over 8000 employees.

"Wells drilled off the north Atlantic coast (Minerals Management Service)
About 30 wells explored the Baltimore Canyon Trough, about 100 miles (160 km) off the coast of New Jersey, Maryland, and Virginia.[25] In one area, five wells tested significant flows of gas from Jurassic rocks, at rates as high as 18.9 million cubic feet per day. A 3-dimensional seismic survey was made over the area, but, in part due to falling gas prices in the 1980s, the lessee oil companies concluded that the tracts were uneconomic. The last leases were relinquished in 1984.[26]

From 1976 though 1982, oil companies drilled ten exploratory wells in the U.S. portion of the Georges Bank Basin, about 120 miles (190 km) off the coast of Massachusetts. The deepest well had a total depth of 21,874 feet (6,667 m).[27] None were successful.[28]"

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- **William F Horan**

- Rank 0

2-2
RI Gov Raimondo & The rub raw alt radical left (regardless of facts) turn out their willing political true believers assembled into clueless victim hood marchers.
"Offshore Atlantic Canada
The Canadian federal government and the province of Nova Scotia have jointly imposed a moratorium until 2015 on drilling in the Canadian portion of the Georges Bank.[29]
Drilling has taken place in offshore Atlantic Canada since 1967. Gas was discovered on the Sable Offshore Energy Project(SOEP) offshore Nova Scotia in 1971, began producing natural gas in 2000, and is still producing. A second natural gas field offshore Nova Scotia is expected to start delivering gas in 2010.[30] Gas production required the construction of an undersea, offshore pipeline to link the production wells with gas markets. SOEP is owned by ExxonMobil Canada Limited (50.8%), Shell Canada Limited (31.3%), Imperial Oil Limited (9.0%), Pengrowth (8.4%) and Moshbacher Operating Limited (0.5%).[31] The Sable Project produces between 400 and 500 million cubic feet of natural gas and 20,000 barrels (3,200 m3) of natural gas liquids every day.[32]
Farther northeast, major oil deposits have been discovered and are being produced in the Jeanne d'Arc Basin, offshore Newfoundland. Offshore Newfoundland held 38% of Canada’s conventional petroleum reserves (excluding oil sands) at the end of 2011.[33]
Future lease sales
The Obama administration announced in March 2010 that it intended to open oil and gas leasing in the Mid-Atlantic and South Atlantic planning areas"

William F Horan

1 Jean Street

Middletown, RI 02842-4536

billyhoran@aol.com

401 846 5732

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Friday, March 02, 2018 1:04 AM
To: Bianco, Todd (PUC); Governor (GOV); sen-dipalma@rilegislature.gov; rep-ruggiero@rilegislature.gov; rep-mattiello@rilegislature.gov; sen-ruggerio@rilegislature.gov; editor@newportri.com; louis_dipalma@yahoo.com
Cc: billyhoran@aol.com; dinorobertiri@gmail.com
Subject: [EXTERNAL] : please add to the communications to The EFSB Burrillville power station public file

Follow Up Flag: Follow up
Flag Status: Flagged

March 01,2018
Todd Blanco@puc.RI.gov
Please add my communications & the attached supplement below to the EFSB Burrillville Power Station Public hearing File.

The state of Rhode Island community is our home and remains very important to all of us.

Many of our subject mater knowledgeable colleagues and local Providence Section IEEE Chapter Members have discussed these topics in detail. The narrative attached below Authored by Mike Aremina collects many of our thoughts. Further has the rigor of derive numerical calculations omitted, focusing instead on the bandwidth of the intended audiences. We hope that you find this approach useful and it makes a positive contribution to the ongoing deliberations by The RI PUC EFSB.

First and last today we are strongly in favor of going forward with the Burrillvile combined cycle power station fueled with natural gas.
As always the devil remains in the details that you have continued to rigorously addressed.

In our opinion this information is also especially relevant to the post natural gas bridge period.
During that time frame we must look to the next generation disruptive technologies.
The ultimate pivot to generation IIIA Fission & eventually Generation IV Thorium Fission reactor power stations.
Perhaps after that MIT based scaled Fusion (based on promising continuous progress with key components).

Hopefully going forward the Burrillville Power Station EFSB hearing will get back on track focusing on a realistic agenda that delivers an outcome in the common and best interest for all of Rhode Island.

This winter demonstrated that RI experienced (both energy & power excess demands) Vs a stressed system capability to produce. This situation was very sobering.indeed.

As such, We suggest that in parallel with these EFSB proceedings an independent effort be taken by PUC & National Grid towards considering a prudent mitigation for lacking previously planed regional Ngas pipe lines and or local LNG marine port & storage facilities.

That is at the new Burrillville Power station Ngas Supply main a strategically located Ngas to LNG conversion and dedicated back up companion on or near site storage tank. Again, especially near both major power stations and also down the National Grid local NGas high demand lines at key distribution hubs throughout RI. This will provide a built in buffer when supply Vs demand becomes out of balance. This would moderate situations similar to this winters cold snap and anticipated hot summer days Ngas & electrical demands. Most of all keep the local electricity grid on line & Ngas cooking and heating operational. This would lessen over the road transport of oil as a substitute fuel at the various RI sites for combined cycle Ngas fueled power stations.

The unresolved issue of regional (PA, NY, CT,MA, & RI) NGas main trunk transmission / pipe lines we view with alarm. Lack of capacity and a needed strategic geographical separation / redundancy and cross coupled routing abilities. Such is necessary as we realize over 50% of our electricity plus domestic Consumer heating and cooking is Ngas derived.

This Ngas Trunk lines confluence of events we view as more of a political issue than a technician or financial issue.

We are alarmed by what appears as a well funded, organized professionally choreographed special interest Opposition impeding in realizing a power station & companion Ngas transmission line resolution for our common and best interest.

Last, the attached paper touches on why here in New England solar PV & wind mathematically / technically can't build up in capacity & capability to make a satisfactory contribution towards helping satisfy our power demands at any practicable cost or time scale. Unfortunately the general public has been over sold and many political leaders either can't grasp the facts or remain in some kind of denial. We acknowledge that in the near term wind & solar PV can be an attractive financial accounting manipulation. In the longer view the bill will come due and it surely becomes an economic burden up to a potential financial time bomb for rate payers and tax payers. Like the financial investment instruments of Dutch Tulip Bulbs, rare spices or Enron this over dimension set of conditions & has a potential for a crash. The well documented current short fall for European wind and solar deployment is available for all to examine. Their is no rational reason for us to bet the farm on following the same approach.
Thank you,
Bill
William F Horan
Engineering Fellow & Sr Mgr retired
Life Member IEEE
IEEE Providence Section Executive Committee member

1 Jean Street
Middletown, RI 02842-4536
Billyhoran@aol.com
401 846 5732

Attachment draft;
Authored by Michael Armenia
Feb 28, 2018.
Great news Rhode Island: Our renewables have increased 300% in just one year!
Don't throw away your Feb National Grid energy bill without looking at the annual insert "Electricity Facts" which details the suppliers of electric energy in and to RI for the past year (June 2016 – June 2017). If you read the numbers it is clear that Natural Gas – both in state and imported comprises nearly 50% of RI energy (42% in state, 4% imported and 5% from landfill gas).

I am amused at headline "facts" from environmental groups that "100s of cities worldwide get their power "substantially" from renewables. If you actually read the text behind these claims it is easy to see these cities get their renewable energy from hydroelectric dams in countries other than USA. According to NGrid, RI gets 15% of its energy from hydro, mostly from Canada, and 16% from nuclear from surrounding states. RI gets 31% of its annual energy from carbon free nuclear and hydro. Over the past 2 years (using the NGrid stats) both hydro and nuclear energy delivered have increased in RI both by about 7% each.
So what about solar and wind? Here's a headline from salespeople who knock on my door to sell solar panels: "solar photovoltaic capacity has increased 60% in the past year". From sales forces selling wind credits: "wind capacity has increased 300% in the past year" in RI. These statements are true for capacity but capacity is not the same as energy delivered because of intermittent operation without storage. NGrid's insert tells the real story: solar capacity delivers less than 1% of energy delivered and wind at a slightly increased annual 2.4% delivered.

How about this headline: Nuclear provides 50% of RI carbon free energy. Hydro provides 46% of RI carbon free energy. (Solar and wind provide less than 2% carbon free energy delivered.)

The bottom line: If we close nuclear plants in New England then RI goes from 66% high carbon (natural gas) to 83% high carbon energy as more gas replaces nuclear hundreds of times faster (denser) than solar and wind could ever hope to. Natural gas is a dense fuel with at least 50% lower carbon content than coal. It is the quickest way to reduce greenhouse gas accumulation. If we don't pipe it in, we will get truck caravans of oil into the state in the winter (just happened) and shiploads of NG from our Gulf and even Russia into Boston to supply New England (just happened).

We should think about nuclear power (and burn nuclear weapons) if it we want to save the planet from total extinction. Nuclear is as green and clean as solar and wind even considering the 60 year old designs that were frozen in time and melted. Also think about radiation. Isn't that the treatment for cancer? How much radiation do we get every day from

natural background vs a melted nuclear power plant? Take a look at existing federal and states' legislation (NY, CT, IL, and NJ) to keep plants on line and build modern ones that can't melt down. Can RI follow these states to subsidize nuclear in RI Renewable Energy Credits (RECs) and Renewable Portfolio Standards (RPS) right alongside solar and wind? Nuclear, solar and wind make great bedfellows - all carbon free. Together these can kill coal and eventually natural gas. Fighting each other will insure continuing political dissention that big oil funds and applauds. Yes big oil funds all sides, just like Russia which is building nuclear plants faster than anyone. China is closely behind. Will they save the world?

Michael Armenia, 22 Damon St, Newport RI 02840 401-626-5840

Todd, I am a retired engineer specializing in power/energy systems. 30 yrs USN, 30 yrs industry. I have developed or actually built nuclear, hydro, wind and solar under Contracts for DoE, and the Defense Department. I have also evaluated numerous advanced energy designs from other companies in my capacities in industry and the Navy.

I have published my opinions in news papers and public presentations. I attach my latest opinion piece for consideration by the PUC in support of the Burriville natural gas plant proposal.

I have been active in my retirement on advanced nuclear technology, i.e. The international consortium of Generation IV reactor designs. If you or PUC would like a briefing on these technologies I would be happy to meet with the Commission.

I am in favor of increasing the in-state supply of natural gas power sources as the logical step to a lower carbon world footprint and an eventual shift to baseload nucler fission (near term) and fusion (far term).

Michael Armenia
CAPT, USN (ret).
Engineering R&D Officer
22 Damon St, Newport RI

401-626-5840

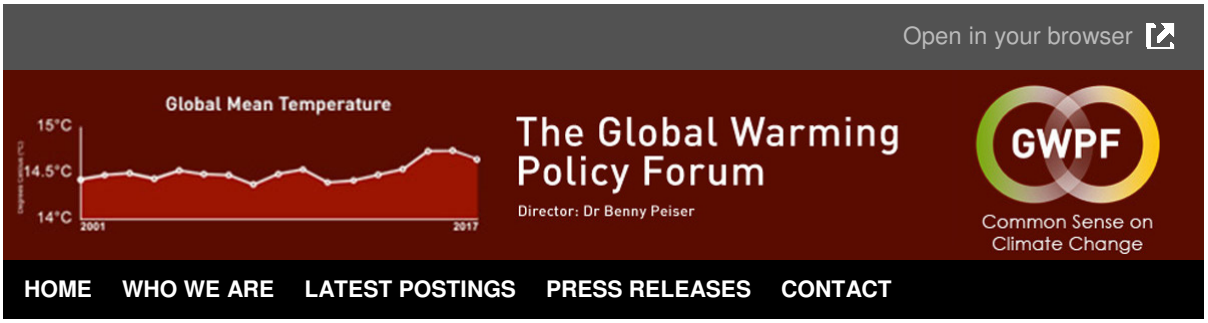
Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Friday, March 02, 2018 6:45 PM
To: Bianco, Todd (PUC)
Cc: dinorobertiri@gmail.com; captbirdfish@gmail.com
Subject: [EXTERNAL] : Russia's Secret Campaign Against U.S. Energy Policy Revealed

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Todd
RI PUC EFSB needs to read this socking news! Perhaps you already know about it.
I recall many at The Burrillville Power Station hearing offering stories and carrying signs
with some very strange stories / beliefs concerning many energy / power facts & issues that were just not accurate..
Perhaps this explains some of the superstition, fear and misdirected energy.
This is very unfortunate as we must maintain open communications and a level of trust and respect in
addressing issues like energy & power that are a big part of the underpinning of our modern society.
Bill Horan

-----Original Message-----
From: Benny Peiser <peiser@thegwpf.com>
To: BillyHoran <BillyHoran@aol.com>
Sent: Fri, Mar 2, 2018 3:41 pm
Subject: Russia's Secret Campaign Against U.S. Energy Policy Revealed



GWPF Newsletter 02/03/18

Russia's Secret Campaign Against U.S. Energy Policy Revealed

U.S. House Committee Reveals Russian Attempts to Influence U.S. Domestic Energy Markets by Exploiting Social Media

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Russian Attempts to Influence U.S. Domestic Energy Markets by Exploiting Social Media

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A Russian-backed propaganda group used social media in an attempt to disrupt the U.S. energy industry and influence energy policy, according to a new congressional staff report reviewed by The Wall Street Journal. Unlike other Russian campaigns to stir political unrest in the U.S., this effort by the tech-savvy Internet Research Agency is characterized as mostly one-sided, agitating against American fossil-fuel production in a way lawmakers believe was aimed at benefiting Russia, the world's largest oil producer. --The Wall Street Journal, 1 March 2018

The purpose of this report is to provide the American people with the findings of the Committee's investigation into Russian efforts to influence U.S. energy markets. First, the report discusses several factors driving the Kremlin's desire to interfere with U.S. energy markets and influence domestic energy policy. Next, it demonstrates how the Kremlin manipulated various groups in an attempt to carry out its geopolitical agenda, particularly with respect to domestic energy policy. Finally, this report provides an assessment of the Committee's findings, including examples of Russian-propagated content targeting U.S. energy markets and domestic energy policy. The facts put into perspective the nature and extent of the Kremlin's energy influence-peddling operation. --United States House of Representatives Committee on Science, Space, and Technology, Majority Staff Report, 1 March 2018

1) Russia's Secret Campaign Against U.S. Energy Policy Revealed

[The Wall Street Journal, 1 March 2018]

2) Russian Attempts to Influence U.S. Domestic Energy Markets by Exploiting Social Media
[United States House of Representatives Committee on Science, Space, and Technology, Majority Staff Report, 1 March 2018]

3) Gazprom: Russia Is EU's Energy Guardian as Cold Grips Europe
[Bloomberg, 2 March 2018]

4) Reminder: Putin TV Station 'Stokes Fracking Fears'

Propaganda Posts: An Instagram post, one of 9,000 allegedly from a Russia-backed propaganda group that attempted to influence U.S. energy policy, a new congressional report says. PHOTO: INSTAGRAM

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Unlike other Russian campaigns to stir political unrest in the U.S., this effort by the tech-savvy Internet Research Agency is characterized as mostly one-sided, agitating against American fossil-fuel production in a way lawmakers believe was aimed at benefiting Russia, the world's largest oil producer.

Starting in 2015, workers at the IRA posted photos and messages on Facebook, Instagram and Twitter encouraging protests against pipeline construction in the U.S., calling for the abandonment of fossil fuels and stoking American controversy around climate change, according to the report by the majority staff on the House Committee on Science, Space and Technology.

It isn't clear how much influence, if any, the campaign had on U.S. energy policy. Many of the posts were shared by only a handful of followers, the report says. But the messages came at a critical time for Russia, after oil and

gas prices began to plummet due to booming output in the U.S. that posed a major threat to one of Russia's most important industries.

"To the extent that America produces more energy of any kind, it guarantees Russia more competition," Rep. Lamar Smith, a Texas Republican and chairman of the House Science Committee, said in an interview. "Russia wants to reduce competition from the United States."

The Russian embassy in Washington declined to comment on the new meddling allegations. In response to questions, it sent prior comments from Foreign Minister Sergei Lavrov denying claims that Russians used social media to create discord in the U.S.

The new report was written by Republican staff on the House Science Committee. It is based on data supplied by Facebook Inc. and Twitter Inc., which have faced criticism from lawmakers over the role of their social networks in facilitating the spread of misinformation and divisive content.

Rep. Smith said Facebook and Twitter cooperated with the committee's requests. Both companies have said they took down all IRA accounts last year because they violated their policies.

People close to Facebook and Twitter confirmed they shared data with the House Science Committee. A Twitter spokeswoman added that the IRA's tweets represented an "extremely small" portion of the broader energy discussion on Twitter.

The IRA opened its opinion-influencing unit in 2014 with the goal of spreading distrust in the U.S., according to a federal indictment secured by special counsel Robert Mueller in mid-February.

The IRA in 2015 started targeting U.S. energy policy in its posts on Facebook, Instagram and Twitter, according to the report. Around that time, the U.S. energy boom began putting the U.S. and Russia in fierce competition. U.S. production had burst out of a long decline as companies learned how to tap shale rock for oil and natural gas.

Between 2015 and 2017, the IRA posted more than 9,000 times about U.S. energy policy or an energy event, according to the report. More than 4% of all IRA tweets were related to energy or environmental issues, compared with the 8% of the IRA tweets related to the U.S. election, the report says.

"If true, this is extremely troubling, and not just from the perspective of the pipeline industry," said Don Santa, leader of the Interstate Natural Gas

Association of America, which represents interstate gas-pipeline companies. “It would illustrate the pervasiveness of Russia’s attempt to sabotage our economy and energy security and undermine trust in our government.”

Russia has responded to the growth of American oil production with an unprecedented deal to cut its oil production in coordination with other big exporters, an effort to cap supply and stabilize plunging prices. President Donald Trump seized on the issue early in his tenure and promised policies to boost output and exports even further as a bulwark against Russia.
Pipelines were allegedly one of the primary targets of the Russian actors. Many of the posts encouraged protests of pipeline construction, including the Dakota Access Pipeline, Keystone XL and Colonial pipelines, the report says.

Full story

2) Russian Attempts to Influence U.S. Domestic Energy Markets by Exploiting Social Media

United States House of Representatives Committee on Science, Space, and Technology, Majority Staff Report, 1 March 2018

Executive Summary

The purpose of this report is to provide the American people with the findings of the Committee’s investigation into Russian efforts to influence U.S. energy markets.

First, the report discusses several factors driving the Kremlin’s desire to interfere with U.S. energy markets and influence domestic energy policy. Next, it demonstrates how the Kremlin manipulated various groups in an attempt to carry out its geopolitical agenda, particularly with respect to domestic energy policy. Finally, this report provides an assessment of the Committee's findings, including examples of Russian-propagated content targeting U.S. energy markets and domestic energy policy. The facts put into perspective the nature and extent of the Kremlin's energy influence-peddling operation.

The Committee began investigating Russian attempts to influence U.S. energy markets in the summer of 2017 when Chairman Smith wrote the Secretary of Treasury regarding Russia’s intricate money-laundering scheme. Russian-sponsored agents funneled money to U.S. environmental organizations in an attempt to portray energy companies in a negative way and disrupt domestic energy markets.1

Upon discovering that Russia may have exploited American social media

platforms to accomplish its disruptive objectives, the Committee broadened the scope of its investigation. On September 26, 2017, the Committee requested data from Facebook and Twitter as part of this expanded investigation.2

Documents that the American social media companies produced for the Committee confirmed that Russian agents were exploiting American social media platforms in an effort to disrupt domestic energy markets, suppress research and development of fossil-fuels, and stymie efforts to expand the use of natural gas.

Subsequent to the Committee's initial request, media revelations indicated that Russian operatives, "intent on exploiting existing divisions and social movements in the United States," had in fact sought to influence U.S. energy markets by exploiting American social media platforms.3

According to the media report, Russian agents exploited Instagram by "shar[ing] images related to Native American social and political issues—including the construction of the Dakota Access Pipeline."4 Moreover, many of the Russian-linked accounts targeted "highly visible tension points" in America, including "protests against pipelines."5

These revelations bolstered the Committee's suspicions that Russia was actively engaged in a concerted effort to disrupt U.S. energy markets and influence domestic energy policy and was exploiting American social media platforms in an attempt to carry out this objective. As such, the Committee reiterated to the American social media companies its interest in information regarding Russian entities purchasing advertisements or posting content targeting domestic energy markets. On October 31, 2017, Chairman Smith again wrote the social media companies requesting information.6

The Committee received and reviewed the companies' produced documents for evidence of Russian influence. Twitter, Facebook, and Instagram were able to identify Russian accounts linked to the Internet Research Agency (IRA), a Russian company based in Saint Petersburg established by the Russian government for the purpose of deceptively using various social and traditional media platforms to advance Russian propaganda.

The information received from Twitter, Facebook, and Instagram shows that Russian agents indeed sought to disrupt U.S. energy markets and influence domestic energy policy by exploiting American social media platforms.

Findings

* Between 2015 and 2017, there were an estimated 9,097 Russian posts or tweets regarding U.S. energy policy or a current energy event on Twitter, Facebook, and Instagram.

* Between 2015 and 2017, there were an estimated 4,334 IRA accounts across Twitter, Facebook, and Instagram.

* According to information provided by Twitter, more than four percent of all IRA tweets were related to energy or environmental issues, a significant portion of content when compared to the eight percent of IRA tweets that were related to the election in the U.S.

* Russia exploited American social media as part of its concerted effort to disrupt U.S. energy markets and influence domestic energy policy.

* The IRA targeted pipelines, fossil fuels, climate change, and other divisive issues to influence public policy in the U.S.

Full report

3) Gazprom: Russia Is EU's Energy Guardian as Cold Grips Europe
Bloomberg, 2 March 2018

The bitter cold from Italy to Scandinavia has given Gazprom, Europe's biggest natural gas supplier, an opportunity to highlight its importance.

"The deep freeze has shown once again that only Gazprom is capable of increasing gas supplies to European customers to maximum levels at a breakneck speed," Alexey Miller, the chief executive officer of Moscow-based Gazprom PJSC, said in an emailed reply to questions. "There's no other supplier that could cope with the task."

The state-run exporter ended February with record-high shipments to Europe, its main market. Russia has been boosting gas supplies to unprecedented levels as the region's demand increases and domestic production drops, leading to concerns it is using the fuel as a political lever to pressure critics and reward allies.

The recent cold snap that rattled energy markets across Europe boosted Gazprom's daily exports from Feb. 18 to Feb. 28 by more than 16 percent, or 99.2 million cubic meters a day. That's higher than supplies to Italy, Gazprom's second-biggest market in the European Union, according to Miller.

environmentalists to oppose fracking'

Nato chief, Anders Fogh Rasmussen, says Moscow mounting disinformation campaign to maintain reliance on Russian gas

4) Reminder: Putin TV Station 'Stokes Fracking Fears'
The Times, 6 August 2016

The Kremlin-backed television station RT has been accused of scaremongering about fracking in Britain to prevent the industry from developing.

A viable shale gas industry in Europe would reduce the continent's reliance on gas imported from Russia.

Cuadrilla, which wants to extract shale gas in Lancashire, has complained to Ofcom that RT breached the broadcasting code by making false statements.

RT regularly interviews anti- fracking campaigners and some of its presenters make frequent comments attacking the technology.

Max Keiser, an American broadcaster who presents the *Keiser Report* with his wife Stacy Herbert, has said in broadcasts that "frackers are the moral equivalent of paedophiles" and fracking is giving British children cancer.

Francis Egan, chief executive of Cuadrilla, said: "RT's broadcasts on UK shale gas frequently have no factual basis and seem designed to instil fear in the public. One assumes RT would prefer the UK and Europe to rely on poorly regulated imports of gas, primarily from Russia, rather than taking control of our own energy future."

There has been no fracking in Britain since 2011 when it was temporarily banned after causing minor earthquakes in Lancashire. In May, Third Energy won permission to frack an existing gas well in North Yorkshire.

An episode of the *Keiser Report* last month featured a discussion with an anti-fracking activist, Tina Louise Rothery, who faces a £55,000 bill after a legal dispute with Cuadrilla over trespassing on a field that it rented near Blackpool.

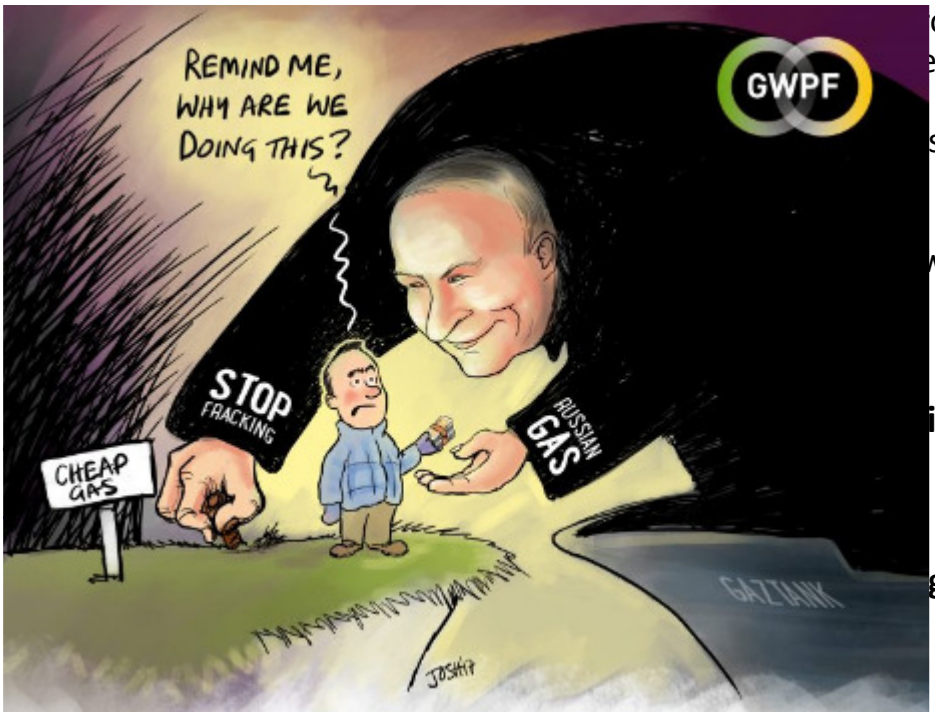
During the discussion, Ms Herbert twice said Cuadrilla had been guilty of "dumping toxic waste off of [sic] Africa". She appears to have confused

Cuadrilla with Trafigura, which was accused of making thousands of people ill in Ivory Coast in 2006 by dumping toxic waste. The commodity trading company later paid Ivorians £30 million in an out-of court settlement without admitting liability.

Ms Herbert said yesterday: “I apologise for mis-speaking.” RT defended its coverage, referring to academic, geological and regulatory studies and reports about the industry’s risks and consequences.

Since the channel started broadcasting in the UK about a decade ago, Ofcom has upheld 15 complaints against it for breaching broadcasting rules, often on impartiality.

Cuadrilla said that it had never had any operations in Africa and never disposed of any waste there. It said that broadcasters should be especially careful to be accurate over fracking because, under the broadcasting code, it qualifies as a matter of “particular public interest”.
The company said that Ofcom “has upheld numerous complaints about [RT] without any noticeable impact on accuracy”. It urged the regulator to impose a “severe statutory sanction”.



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gas supplies in

Gazprom shipped 190 billion cubic meters of natural gas to Europe in 2017—a record high, according to Bloomberg. In 2018, that figure is expected to dip slightly to 180 billion cubic meters, which will still be the second most on record.

The higher reliance on Russian gas may come as a surprise, not least because of the ongoing tension between Russia and some European countries on a variety of issues. Russia's intervention in Ukraine and its annexation of Crimea in 2014 led to a standoff between Russia and the West—but Europe's imports of Russian gas are up more than 25 percent since then, despite a lot of rhetoric in Brussels about diversification.

There has been some progress. U.S. LNG has begun arriving on European shores for the first time, promising to compete with Russian gas. Importing LNG has been a lifeline particularly in some areas that are acutely exposed to Russia's gas grip. Lithuania began importing LNG, offering an alternative to Russian gas and forcing price concessions from Gazprom.

For years, U.S. LNG has been billed as somewhat of a game changer, threatening to end Russia's control of the European market. There have been some notable concessions from Gazprom—more flexible pricing, for example, and an erosion of oil-indexed pricing—but the Russian gas giant has not lost market share. A lot of U.S. LNG has been shipped to Latin America, not Europe.

Part of the reason is that European natural gas production continues to fall, leaving a void that Russia has been eager to fill. At the same time, Gazprom's Deputy Chief Executive Officer Alexander Medvedev told Bloomberg that coal prices are expected to rise a bit in 2018, making Russian gas more competitive.

Meanwhile, Russia is not leaving the LNG game to the Americans. Russian President Vladimir Putin recently inaugurated the start of the Yamal LNG project in Russia's Arctic, a massive $27 billion LNG export terminal developed by private Russian gas company Novatek that was completed on time and on budget.

Full story

Our mailing address is:
The Global Warming Policy Forum
55 Tufton Street
London SW1P 3QL
United Kingdom

Bianco, Todd (PUC)

From: WILLIAM HORAN <billyhoran@cox.net>
Sent: Monday, March 05, 2018 10:38 PM
To: captbirdfish@gmail.com; DinorobertiRI@gmail.com; Bianco, Todd (PUC)
Subject: [EXTERNAL] : Fwd: The Download: The great Ngas pipeline debate

Follow Up Flag: Follow up
Flag Status: Flagged

Todd Bianco RI PUC

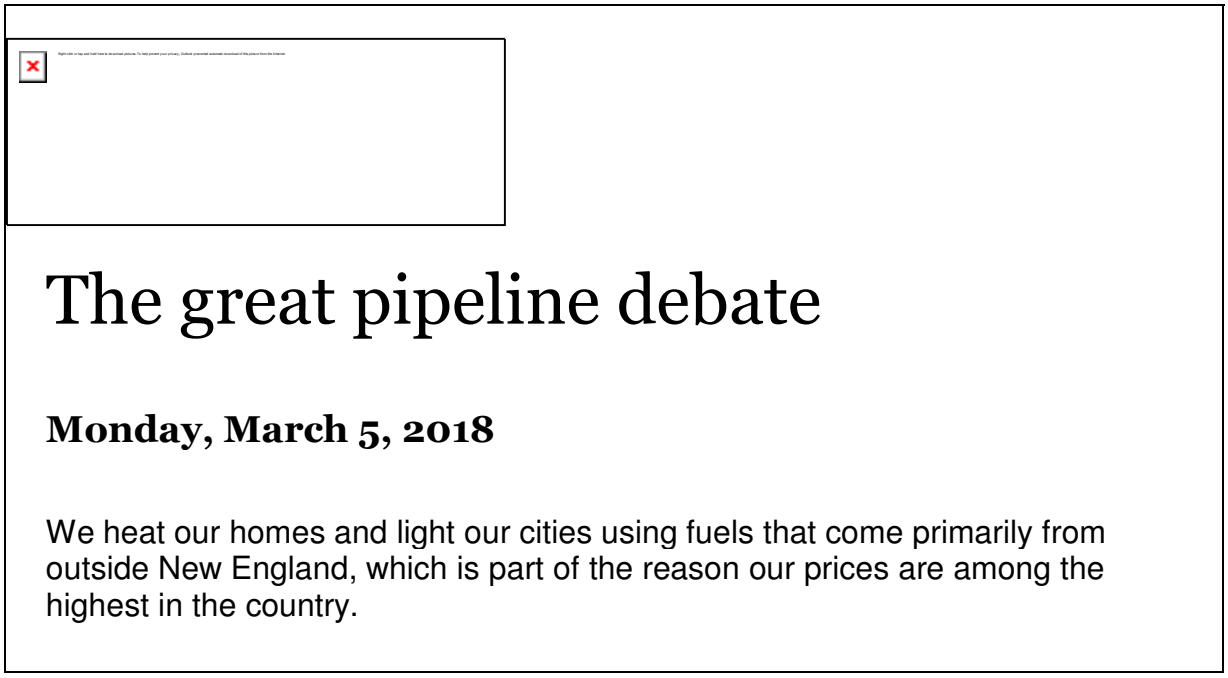
EFSB Burrillville Site hearings

This is relevant to the Burrillville Combined Cycle Power Station fuel source via pipe line .blockade by environmental radicals.

William F Horan

Middletown, RI 02842-4536

---------- Original Message ----------
From: CommonWealth Magazine <amiddle@massinc.org>
To: billyhoran@cox.net
Date: March 5, 2018 at 10:28 AM
Subject: The Download: The great pipeline debate

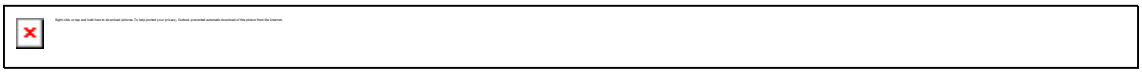


The great pipeline debate

Monday, March 5, 2018

We heat our homes and light our cities using fuels that come primarily from outside New England, which is part of the reason our prices are among the highest in the country.

But every now and then, like during the severe cold snap in late December and early January, things get really bad. The severe cold meant most of the natural gas coming into the region had to go for heating, which left little available for electric power generation. The price of natural gas in New England skyrocketed -- at one point it was the highest in the world. Power generators shifted to lower-priced but more environmentally damaging coal and oil. We burned more than 2 million barrels of oil during a 15-day period.



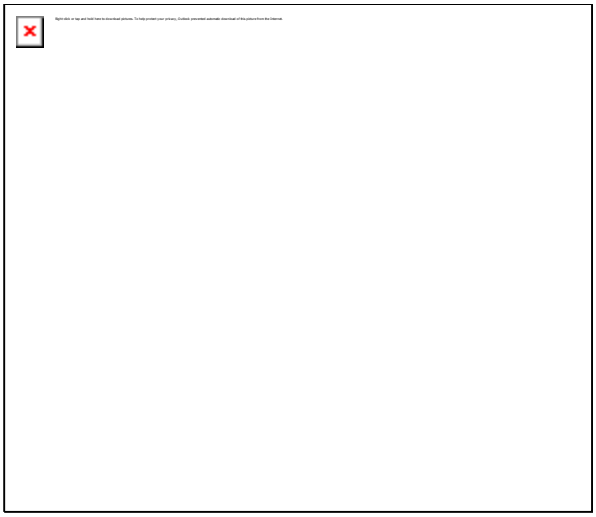
The fallout from that cold snap has rekindled one of the great policy debates of our time. Should we expand the capacity of natural gas pipelines coming into the region, and eliminate the occasional shortages and their accompanying price spikes? Or should we say no to more pipelines carrying fossil fuels, and either accept the occasional shortage (and the higher costs that come with them) or find ways to lessen their impact until we reach a clean energy future.

There are no easy answers here because there are too many variables, too many unknowns. How soon will our clean energy future arrive? Will electricity demand, which is slowing, increase as we electrify our transportation sector? How will new technologies, such as offshore wind and electricity storage, reduce our reliance on fossil fuels? And, most importantly, what will the weather be like in the future?

The Baker administration and the business community are the chief proponents of building new pipeline capacity. They had the upper hand until August 2016, when the **Supreme Judicial Court** ruled that the Baker administration lacked the legal authority to require electric ratepayers to finance a natural gas pipeline. Since then, the anti-pipeline forces have gained steam, led by environmental advocates and liberals in the state Senate who say it makes no sense to build a road to a clean energy future while simultaneously building a pipeline to fracked gas in Pennsylvania.

Last month, several of the state's leading business groups formed the **Coalition for Sustainable Energy** in a bid to rekindle the pipeline debate. The *Boston Globe* editorial page has also jumped into the fray, with a series of pieces decrying some of the interim fixes (Russian

LNG and LNG by train car) suggested to deal with the occasional shortage of pipeline gas. In an editorial on Sunday, the *Globe* condemned the "faddish anti-pipeline politics on Beacon Hill" and the "abstinence-only ideology" of Sens. **Jamie Eldridge** of Acton and **Marc Pacheco** of Taunton.



"Massachusetts needs more clean energy," the *Globe* said. "It also needs to limit the damage from its fossil fuel use, through investments that should include pipelines to finish the work of displacing dirtier fossil fuel sources like oil, coal, and imported LNG. And it needs to reject the rhetoric that pits encouraging renewables and reducing fossil fuel-related emissions against each other, as if the Commonwealth can't pursue both."

This week's Codcast features representatives from the two opposing camps -- **Robert Rio**, the senior vice president of government affairs at Associated Industries of Massachusetts, one of the founding members of the Coalition for Sustainable Energy, and **Elizabeth Turnbull Henry**, the president of the **Environmental League of Massachusetts**, which also represents many members of the business community. Listen and get up to speed.

- BRUCE MOHL

BEACON HILL

Hillary Chabot ticks off the big winners of salary boosts that came with the shuffle of Senate leadership posts set in motion by former president **Stan Rosenberg** stepping down from the chamber's top job. (*Boston Herald*)

Alan Solomont and **Arielle Jennings** push legislation mandating civics education in schools, saying it makes sense to train citizens one student at a time. (*CommonWealth*)

Spending on **pot lobbying** continues to grow on Beacon Hill. (*Eagle-Tribune*)

MUNICIPAL MATTERS

Poorer neighborhoods of **Boston** suffer with more poorly maintained sidewalks than wealthier enclaves. (*Boston Globe*)

The city of **Lawrence** is threatening to seize the historic Bay State building after its owners refuse to bring it into compliance with building codes. (*Eagle-Tribune*)

Weighing in on the proposed renaming of Yawkey Way (which he thinks is a horrible idea), **Joe Fitzgerald** unloads on Red Sox owner (and *Globe* publisher) **John Henry**, calling him a "Johnny-come-lately who, hungering for attention, has become a self-appointed paragon of virtue." (*Boston Herald*)

WASHINGTON/NATIONAL/INTERNATIONAL

With Democratic help, the US Senate is preparing to pare back the sweeping **Dodd-Frank regulations** passed after the 2008 financial crisis. (*Washington Post)*

The Trump administration has not had a lot of success, however, in ridding the federal government of agencies it set out to eliminate. (*Boston Globe*)

President Trump does, indeed, have a sense of humor. (*U.S. News & World Report*)

Writer **Ezra Dyer** offers some thoughtful reflections on gun control, but oddly mixes it with glib comments about guys with "bowl cuts." (*Boston Globe*)

ELECTIONS

Retiring Berkshire County District Attorney **David Capeless** and Gov. **Charlie Baker** put Capeless's No. 2 in charge, giving him a leg up in the fall election. (*CommonWealth*) DA races in several other counties are seeing a rise in liberal contenders and challengers. (*Boston Globe*)

Joe Battenfeld says the mounting series of problems at the State Police could become a reelection point of vulnerability for Gov. **Charlie Baker**. (*Boston Herald*) Meanwhile, **Howie Carr** catches Lt. Gov. **Karyn Polito** on her cellphone and asks her uncomfortable questions about a trooper from Polito's hometown of Shrewsbury who somehow landed on the force despite being a co-conspirator in a major drug case that landed her then-boyfriend in prison. (*Boston Herald*)

US Rep. **Seth Moulton** says he's no hypocrite and will remain neutral in the Democratic primary race between US Rep. **Michael Capuano** and Boston City Councilor **Ayanna Pressley**. (*CommonWealth*) The Capuano-Pressley showdown gets some national attention in Sunday's *New York Times*.

Sen. **Elizabeth Warren**'s three Republican challengers say they're juiced about the race because, not in spite, of her national profile. (*Boston Globe*)

BUSINESS/ECONOMY

Scott Kirsner says the state's approach to the issue of non-compete agreements is a gift to big companies that hurts the start-up sector. (*Boston Globe*)

IHeartMedia, the largest radio broadcaster in the country, prepares a bankruptcy filing. (Bloomberg)

Barnstable County officials have ordered, without explanation, the **AmeriCorps** program to find another home for its volunteers who have been housed in a county-owned house in Bourne for more than two decades. (*Cape Cod Times*)

EDUCATION

Kurt Steinberg , the executive vice president of the Massachusetts College of Art and Design, is named president of Montserrat College in Beverly. (*Salem News*)

A **Stoughton** French teacher was fired for showing her class an ultrasound device used to defend against attacking dogs. Students and administrators initially believed the device was a Taser. (*The Enterprise*)

Wareham officials are looking to shut an elementary school and eliminate 33 positions to try to close a growing deficit in the school budget. (*Wareham Courier*)

HEALTH/HEALTH CARE

State initiatives to bring back **Obamacare's** individual mandate haven't gained traction. (*Governing)* A *New York Times* story suggests otherwise.

Shriners Hospital for Children may close or pare back the well-known burn unit at its Boston hospital. (*Boston Globe*)

TRANSPORTATION

Middleboro officials expressed deep concern over the state's revised plan to run South Coast Rail through the town, saying the environmental impact report downplayed traffic concerns and was drafted without input from the town. (*The Enterprise*)

ENERGY/ENVIRONMENT

Southbridge is insisting that Casella Waste Systems continue to pick up trash and disposables for free through 2027 even though the company's landfill is shutting down at the end of this year. (*Telegram & Gazette*)

In the wake of Friday's storm, the *Washington Post* says Boston has largely been ignoring the impact on sea levels from climate change, a view city officials might take issue with. Photos and videos from places such as **Winthrop** and **Scituate** were the most dramatic but **Quincy** was by far the hardest hit community in the storm. (*Patriot Ledger*) A **Plympton** man was killed when a tree fell on his car. (*Patriot Ledger*) **Deanna Moran** of the Conservation Law Foundation says severe storm effects are the new norm. (*CommonWealth*)

Joel Wool of Clean Water Action says Massachusetts needs to end energy inequality. (*CommonWealth*)

The Trump administration plan to allow **oil and gas drilling off the New England coast** is uniting in opposition fishermen and environmentalists, who are often at odds over policy proposals. (*Boston Globe*)

Washington Gov. **Jay Inslee** fails to garner enough votes to pass a carbon tax. (*Governing*)

MEDIA

After 25 years, **Dianne Williamson** writes her last column for the *Telegram & Gazette*.

PASSINGS

Sir **Roger Bannister**, the first human to ever run a mile in under four minutes, died at the age of 88. (*New York Times*)

David Ogden Stiers , best known as the iconic character Major Charles Emerson Winchester III on the TV show M*A*S*H, died from bladder cancer at his Oregon home. He was 75. (Associated Press)

Stay connected.

Bianco, Todd (PUC)

From:	billyhoran@aol.com
Sent:	Wednesday, March 07, 2018 9:29 PM
To:	Bianco, Todd (PUC); Governor (GOV); rep-mattiello@rilegislature.gov; sen-ruggerio@rilegislature.gov; rep-ruggiero@rilegislature.gov; sen-dipalma@rilegislature.gov
Cc:	captbirdfish@gmail.com; editor@newportri.com; rsylvia@mindspring.com
Subject:	[EXTERNAL] : ALERT Burrillville power station new obstruction effort // Letter: Donna Hutchinson: Navy and Jamestown citizens opposed oil refinery long ago
Follow Up Flag:	Follow up
Flag Status:	Flagged

todd.bianco@puc.ri.gov, editor@newportri.com

ALERT Burrillville power station new obstruction effort

Reff projo posted letter below can be found at http://providencejournal.com/opinion/20180307/letter-donna-hutchinson-navy-and-jamestown-citizens-opposed-oil-refinery-long-ago

My comment is submitted;
You have portrayed an oranges and apple equivalency that is a raw distortion of the facts. What is now before the RI PUC Energy Facility sitting board EFSB is not a 1950's massive oil refinery. What is finally advancing through the RI PUC EFSB hearings is a modern very efficient combined cycle natural gas fueled power station. It is located strategically near the regions existing natural gas transmission lines (pipe line) and the regional power grid connectivity can be easily accomplished. The natural gas combustion products are significantly less that even a modern clean coal power station. The companion straw man distortion of facts is the so called fracking technology that is employed to facilitate the domestic PA Ngas harvesting at the well head, totally with in EPA guidelines of the Obama administration period. The ALLEGED GREEN & un workable alternative is hyped by a well organized and funded out of state professional agitators and a Locally recruited army of victim hood NIMBY BANANA PROPONENTS. The common and best interest of RI citizens is served by going forward with this project. This project has experienced ongoing attempted construction of many barriers and or outright obstruction to sabotage a critically needed affordable, reliable, & predictable source of electricity for RI citizens..
William F Horan
1 Jean Street
Middletown, RI 02842
billyhoran@aol.com
4018465732

Letter: Donna Hutchinson: Navy and Jamestown citizens opposed oil refinery long ago

Sixty years ago, 200 acres in Jamestown just north of the toll booths almost became the location of a large oil refinery. This sounds ridiculous, but it’s true. Imagine a network of 100 tanks each holding 30,000 gallons of unrefined oil connected to a pipeline that would have extended on a dock 850 feet into the east passage of Narragansett Bay.

Those who have driven down the New Jersey turnpike know that refineries have tall brightly lit towers which flare off fumes 24 hours a day. The same would have been true here in the middle of our now pristine Bay.

Thanks to a group of 17 Jamestown men and citizen groups from all around the bay, the project was stopped. Opposition from the Navy helped, but it was grassroots action that halted the project.

Today, a small group of citizens in the tiny Rhode Island town of Burrillville are fighting a similar battle. The odds haven't been in their favor but the tide is turning and their story is just as compelling as any David and Goliath saga.

All are invited to hear the story, as told by Paul Roselli, president of the Burrillville Land Trust. He will be giving a lecture and slide show at the Jamestown Library on March 15, at 6 p.m.

The Land Trust has held bake sales, potluck suppers and car washes. Its efforts have been tireless. I urge people to come learn about its effort to keep the air clear throughout all of Rhode Island. After all, pollution knows no borders.

Donna Hutchinson

North Kingstown

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Thursday, March 08, 2018 1:01 PM
To: carolhoranwine@gmail.com; vanurse3691@gmail.com; Bianco, Todd (PUC); Governor (GOV); louis_dipalma@yahoo.com; rep-mattiello@rilegislature.gov; rep-ruggiero@rilegislature.gov; sen-ruggerio@rilegislature.gov; sen-dipalma@rilegislature.gov; captbirdfish@gmail.com; editor@newportri.com; billyhoran@aol.com
Subject: [EXTERNAL] : Fwd: [Non-DoD Source] Fwd: RELEASE: Bipartisan Bill to Promote Collaboration Between Nuclear Industry and National Labs Clears Senate

Follow Up Flag: Follow up
Flag Status: Flagged

FYI
Hats off to NEWPORT RI RESIDENT Mike Armenia!
This is a critical first step to addressing the post natural gas bridge pivot to a carbon free electrical generation.
The collaboration with Mr Armenia et al has been an enjoyable experience.
We must all continue thinking great thoughts!
Who knows (according to Mike Armenia) perhaps even some day mfg Thorium Reactors at Quonset Point!
Today here in RI we need the Burrillville combined cycle natural gas fueled power station as it is our bridge to a carbon free future.
wfh
William F Horan
1 Jean St
Middletown, RI 02842
billyhoran@aol.com
401 846 5732

-----Original Message-----
From: Clark, Cathy A CIV NUWC NWPT <cathy.clark@navy.mil>
To: Ben McPheron <bmcpheron@rwu.edu>; Billy Horan <billyhoran@aol.com>; Charles Flynn <cflynn231@g.rwu.edu>; Charles Thangaraj <cthangaraj@rwu.edu>; David Casper <dcasperd@ieee.org>; David Clarke (d.clarke@ieee.org) <d.clarke@ieee.org>; Harold Belson <h.belson@ieee.org>; Jacob George <jacobgeorgeus@gmail.com>; Jason Gaudette (jason.e.gaudette@ieee.org) <jason.e.gaudette@ieee.org>; John Barkley <JohnBarkley@outlook.com>; Marty Cohen <mlcohen@ieee.org>; Stephanie Gratiano (Stephanie_Gratiano@ieee.org) <Stephanie_Gratiano@ieee.org>; Crocker, Steven E CIV NUWC NWPT <steven.crocker@navy.mil>; Ted Dawson <Ted.Dawson@acm.org>
Sent: Thu, Mar 8, 2018 10:15 am
Subject: FW: [Non-DoD Source] Fwd: RELEASE: Bipartisan Bill to Promote Collaboration Between Nuclear Industry and National Labs Clears Senate

FYI --
c.

-----Original Message-----
From: billyhoran@aol.com [mailto:billyhoran@aol.com]
Sent: Wednesday, March 07, 2018 10:28 PM
To: cathy.clark@ieee.org; Clark, Cathy A CIV NUWC NWPT
Cc: captbirdfish@gmail.com
Subject: [Non-DoD Source] Fwd: RELEASE: Bipartisan Bill to Promote Collaboration Between Nuclear Industry and National Labs Clears Senate

Hi Cathy
I thought that the attached update might be of great interest if distributed to our IEEE Providence Section members.

Especially given the recent Providence Section dinner presentation by Mike Armenia on the depth and breath of global vs US power needs. Mr Armenia s cogent discussion for the post natural gas bridge pivot to a Thorium powered production of electricity via generation IV nuclear fission reactors. As you know Mr Armenia has actively advocated for and assisted in facilitating this important national technical agenda.
Bill Horan
wfh

-----Original Message-----
From: Mike Armenia <captbirdfish@gmail.com>
To: William Horan <billyhoran@aol.com>; Dino Roberti <dino.roberti@navy.mil>; Dave Sharp <dsharp401@gmail.com>; Martin Cohen <mlcohen@ieee.org>; William Fennell <fennellwg@verizon.net>; Al benson <bensonra60@gmail.com>
Sent: Wed, Mar 7, 2018 9:23 pm
Subject: Fwd: FW: RELEASE: Bipartisan Bill to Promote Collaboration Between Nuclear Industry and National Labs Clears Senate

This is an update on S. Whitehouse Bill for advanced nuclear. It has cleared the H and going to the S. I would like to see more support for S SW from RI voters for his understanding of advanced nuclear potential. That support is unlikely to come from old school environmentalists but it could/should come from engineers who know about energy density. So I encourage us to get more engineers involved in the discussion of nuclear and radiation.

Mike

---------- Forwarded message ----------
From: "Goldner, Aaron (Whitehouse)" <Aaron_Goldner@whitehouse.senate.gov>
Date: Mar 7, 2018 5:56 PM
Subject: FW: RELEASE: Bipartisan Bill to Promote Collaboration Between Nuclear Industry and National Labs Clears Senate
To: "Ashley Finan (afinan@catf.us)" <afinan@catf.us>, "Mike Armenia" <captbirdfish@gmail.com>, "ROBERT KIERONSKI" <rnrower@msn.com>, "Stuart Ross" <sross@catf.us>
Cc:

Hello Rhode Islanders:

Some good news today. See below and appreciate your continued work and support on this. Please share.

Thanks,
Aaron

From: Davidson, Richard (Whitehouse)
Sent: Wednesday, March 7, 2018 5:48 PM
To: Davidson, Richard (Whitehouse) <Richard_Davidson@whitehouse.senate.gov <mailto:Richard_Davidson@whitehouse.senate.gov> >
Subject: RELEASE: Bipartisan Bill to Promote Collaboration Between Nuclear Industry and National Labs Clears Senate

FOR IMMEDIATE RELEASE
March 7, 2018
Contact: Rich Davidson
(202) 228-6291 <tel:(202)%20228-6291> (press office)

Bipartisan Bill to Promote Collaboration Between Nuclear Industry and National Labs Clears Senate
Legislation to promote development of innovative, carbon-free energy technologies heads to House

Washington, DC – The Senate passed today the Nuclear Energy Innovation Capabilities Act to increase collaboration between private industry, universities, and national laboratories in developing and bringing to market advanced nuclear technologies. Senators Sheldon Whitehouse (D-RI), Mike Crapo (R-ID), and Cory Booker (D-NJ) led a bipartisan group of

Senators in introducing the bill in January of last year. The legislation now goes to the House for consideration.

“This legislation will help to spark a new generation of nuclear technology. Our national labs and research universities are doing work that can transform the industry, and may even help remedy some of the big challenges the country faces like managing nuclear waste. This bill will help industry collaborate with those institutions to bring new technologies forward and compete against polluting forms of energy like coal and natural gas. Thank you to Senators Crapo, Booker, and the bipartisan group who joined me to push this important legislation through the Senate,” said Whitehouse.

The legislation would direct the U.S. Department of Energy to prioritize collaborating with private innovators to test advanced reactor concepts. The measure authorizes the creation of a National Reactor Innovation Center to bring together the technical expertise of the National Labs and the Energy Department to enable the construction of experimental advanced nuclear reactors. The Nuclear Regulatory Commission would partner with the Energy Department in this effort, which would enable the Commission to contribute its expertise on safety issues while also learning about the new technologies developed through the Center. This measure also would create a new Energy Department cost-sharing program to help the advanced reactors cover pre-licensing fees as they move through the regulatory approval process.

Joining Whitehouse, Crapo, and Booker in sponsoring the Senate bill were Senators Jim Risch (R-ID), Orrin Hatch (R-UT), Dick Durbin (D-IL), and Lisa Murkowski (R-AK).

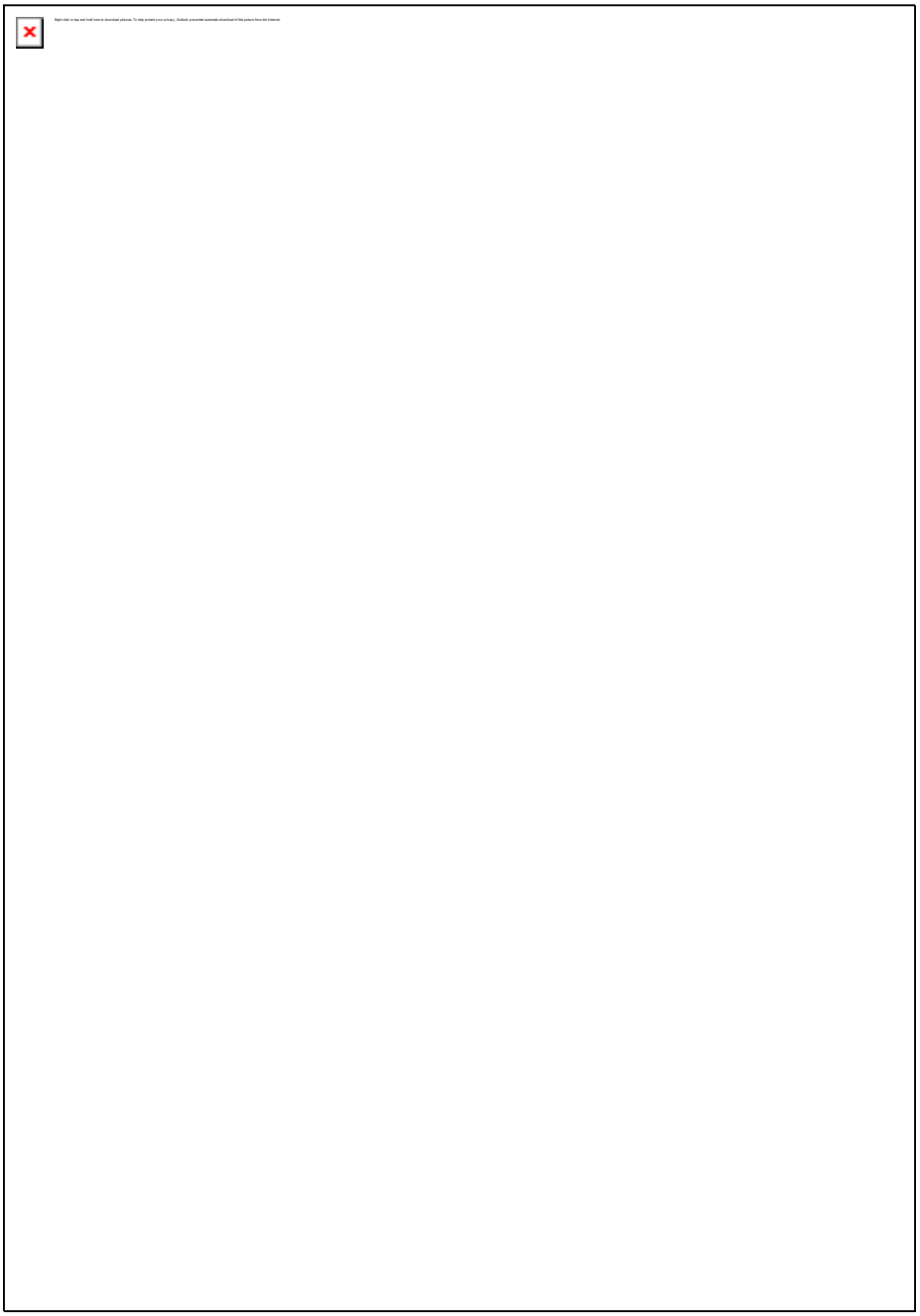
The bill is the third piece of bipartisan environmental and energy-related legislation sponsored by Whitehouse to clear the Senate in the last several months, along with a bill <https://www.whitehouse.senate.gov/news/release/-whitehouse-cheers-passage-of-agreement-ending-cycle-of-budget-showdowns-and-unlocking-6-billion-in-opioid-funding-> to promote carbon capture, utilization, and storage and another <https://www.whitehouse.senate.gov/news/release/senate-clears-bipartisan-bill-to-address-marine-debris-crisis> to combat marine debris.

###

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Tuesday, March 13, 2018 12:47 AM
To: captbirdfish@gmail.com; dinorobertiri@gmail.com; Bianco, Todd (PUC); Governor (GOV); rep-mattiello@rilegislature.gov; sen-ruggerio@rilegislature.gov; sen-dipalma@rilegislature.gov; rep-ruggiero@rilegislature.gov; rsylvia@mindspring.com
Subject: [EXTERNAL] : Why Down with Nukes???!!! - learn from European failures rocketing power prices and routine blackouts are now dished up daily in Deutschland.

Follow Up Flag: Follow up
Flag Status: Flagged



Germany's obsession with sunshine and breezes, has cost it dearly: rocketing power prices and routine blackouts are now dished up daily in Deutschland.

However, you'd never know it, if it was down to the mainstream media here.

Germany has been long the poster child for renewables zealots in Australia, who keep telling us that the transition to an all renewables future is just a heartbeat away. And a gullible and naïve press has religiously followed suit, with the same fawning narrative.

STT relies on Germans on the ground, including NoTricksZone, which collects German language media and does a pretty fair job translating it to English for general consumption. For some reason, the posts that STT does on the German debacle collect hits in the many thousands from our followers across the globe.

In this piece, we wind back the clock to January last year for what is a very good summary of how Germany has ended up with power prices, close to the highest in the world (right up there with wind 'powered' South Australia), and a grid on the brink of collapse.

The author, Christine Sturm served until 2016 in several management positions inside the renewable energy arm of RWE, one of Germany's largest utility groups. Here's the view from an insider.

Inside the Energiewende: Policy and Complexity in the German Utility Industry

Issues in Science and Technology

Christine Sturm

9 January 2017

Germany has made enormous investments in renewable energy. So why isn't it on target to meet its ambitious greenhouse gas emissions goals?

When the first German law to incentivize renewable energy (RE) came into effect in 1991, even its most ardent supporters could not have imagined that 25 years later RE would provide Germany with 195.9 terawatt hours of power—almost a third of the nation's gross electricity consumption. Germany's Energiewende, with its successive and increasingly generous RE legislation, made this unprecedented achievement possible.

The formal goal of the Energiewende (best translated as "energy turnaround") is to reduce Germany's greenhouse gas (GHG) emissions by 80% to 95% from 1990 levels by 2050 without relying on nuclear power and while maintaining secure and affordable energy access. This ambitious goal is to be achieved by following two strategic pathways: promoting the deployment of RE so that it provides at least 60% of the nation's gross final energy consumption by 2050 and increasing energy efficiency to reduce gross final primary energy consumption by half from 2008 levels by 2050. The core energy-system-wide targets are, in turn, divided into quantitative sub-targets for the electricity, industrial heating, and transport sectors.

In 2004, Jürgen Trittin, the German Minister of Environment, declared that support for RE would cost the average German household no more than one scoop of ice cream per month. "The transformation of our energy system is not only feasible, it also pays off," stated a later Minister of Environment, Norbert Röttgen, in 2012, based on a feasibility study for reducing carbon emissions by up to 95% without relying on nuclear power.

Despite such optimistic statements, Germany's energy transition is coming at a very high cost to energy consumers and to the German utility industry. Energy systems are complex amalgams of technologies, institutions, markets, regulations, and social arrangements. Nations have little experience intervening in such socio-technical systems to steer them in desired new directions over specified periods. To date, the Energiewende offers strong lessons about the unintended consequences of such interventions, but whether Germany can meet its goals of creating a clean, affordable energy system remains unknown.

Up with renewables

The backbone of the Energiewende is a succession of interrelated laws and regulations aimed at deregulation of energy markets, deployment of REs, support of combined heat and power production for industry, and establishment of a carbon emission trading system. Other policy instruments include measures to increase energy efficiency in buildings; stimulate more intensive deployment of electric vehicles; import RE from European, Middle-Eastern, and North-African countries; and begin to explore and implement visions of a future hydrogen economy. The costs of the Energiewende are primarily being paid directly by energy consumers. This is a significant policy change from previous German energy programs (mostly for the deployment of hydroelectric, nuclear, and fossil-fuel power projects), which were typically financed from general government funds.

The raft of intertwined and interdependent legislation and policies comprising the Energiewende has appropriately been termed an “integrated energy and climate program.” But, as we will see, the consequences of this complexity means that individual policies cannot be understood in isolation and often have consequences that go far beyond those that were intended.

No other instrument from the convoluted Energiewende policy toolbox has contributed more to Germany’s impressive results in ramping up RE production than the successive RE acts, known as the EEGs (Erneuerbare Energien Gesetz), of 2000, 2004, 2009, 2012, and 2014, with the next EEG coming online in January 2017. Each EEG defines the conditions for incentivizing and connecting RE facilities to the grid, as well as the level of feed-in tariff (FIT) for each RE source—wind (on- and offshore); solar (rooftop and large-scale); biomass (liquid, solid, and gas); geothermal; and so on.

The EEG requires grid operators (the electric utilities) to connect, on demand, any RE facility to their grid, and to do so in a way that minimizes the connection cost for the facility owner. RE facility owners then receive from the grid operators generous payments based on the feed-in tariff for each kilowatt-hour of electricity fed into the power grid. The relevant FIT for any given RE site is fixed over 20 years and corresponds to the payment level valid at the moment of the facility’s initial operation. Moreover, because the FITs enacted by each EEG go down over time, the sooner RE owners can bring a facility online, the higher the FIT over the fixed 20-year period. In this way, rapid RE deployment is further incentivized. The EEGs also reduce the risks of RE ownership: even if the grid operator shuts down a renewable facility due to grid instability problems, the FIT has to be paid, as if there were no interruption.

The intensive deployment of RE resulting from incentives created by the EEG has put more power into the electricity market and wholesale prices over the past decade have fallen from about 60-80 euros (€) per megawatt hour (MWh) to €20-30/MWh. Yet household and small industrial consumers experienced the opposite trend because they still had to pay for the rising EEG feed-in tariffs that incentivized and subsidized all the new RE capacity that has continually been coming online. The consumer contribution, a surcharge on top of their regular electricity bills to cover the added costs of RE power generation, has risen with the successive EEGs from about 0.2 cents per kilowatt hour (kWh) in 2000, to 6.88 cents/kWh in 2017. The total electricity-related Energiewende costs for 2016 are estimated at €34.1 billion, of which €22.9 billion (67.1%) represents the EEG costs. For household consumers and small industrial consumers, this means that more than half of their 2016 electricity bills reflect the costs of the Energiewende.

Why have energy consumers had to foot the rising electricity bills even as the market price of electricity was dropping? First, the costs imposed by the Energiewende far outweighed the falling prices on the wholesale markets. Second, to preserve Germany’s economic health, which to a large extent depends on exports of industrial goods, the government shielded energy-intensive manufacturing processes, such as chemical, aluminum, paper, and glass production, from EEG-related charges to keep manufacturing companies from migrating to countries with cheaper energy, or simply to protect them from economic failure due to the high price of electricity. As a result, about 40% of the nation’s electricity is

used by industries that are largely protected from contributing to the Energiewende costs—expenses that therefore must be borne by other energy users.

Down with nukes

If the EEGs have introduced significant price distortions onto the German energy scene, a second major policy change—the phasing out of nuclear power—makes the role of REs even more complex. After passing into law the first regulations for promoting RE and combined industrial heat and power, former German Chancellor Gerhard Schröder's first administration signed in June 2000 a nuclear phase-out agreement with the German utility industry. The political motivation for the phase out was not climate change, but the antinuclear position of the Green party, which at the time was part of Schröder's ruling coalition. Thus, the phase out was accompanied by policies that protected the use of cheap domestic lignite and subsidized domestic hard coal—the most carbon-intensive fossil fuels—in order to protect jobs, reduce energy imports, and help preserve energy security as Germany moved away from nukes.

This political and policy calculus soon evolved as climate change became an increasingly important policy priority. Current German Chancellor Angela Merkel's first administration decided in 2007 to merge Germany's energy and climate policies in an integrated action plan meant to reduce GHG emissions by 36.6% from 1990 levels by 2020. Three years later, Chancellor Merkel's second government set the current decarbonization goals of at least 80% emissions reductions by 2050 and presented the first integrated road map to carbon neutrality. To achieve this ambitious target, the road map included a postponement of Schröder's nuclear phase out by extending the life span for the existing German nuclear facilities by up to 14 years. The rationale behind this change in the policy was that nuclear technologies are nearly carbon-free, have a high energy intensity, cover about 60% of Germany's base-load power, and can not only help meet higher decarbonization rates, but also make up for the lack of affordable electricity storage facilities needed to make up for intermittent power generation from renewable sources.

Only six months later, after the March 11, 2011, nuclear accident in Fukushima, Japan, and in the wake of fast-spreading antinuclear protests, Chancellor Merkel changed Germany's policy course again. Driven this time by the fear of losing her political legitimacy, she decided to decommission all German nuclear power plants by 2022, without renouncing Germany's ambitious 2050 GHG reduction targets.

Intermittent sun and wind

With nuclear power no longer a part of Germany's energy future, the country's aggressive decarbonization goals now had to be achieved through even more rapid deployment of REs, and that is the course the nation has been pursuing. But the rising share of intermittent RE sources—solar and wind—creates several technical, economic, and ecological problems. Most important, as intermittent RE sources increasingly come onto the grid, the ratio of electricity generated to installed capacity goes down. For example, fossil and nuclear plants are able to reach about 8,000 "full load hours" per year (the amount of electricity actually generated in a year, divided by the installed capacity). The average full load hours in Germany for onshore wind is about 2,000 hours, and for solar it is about 800 hours. So the more that electricity is generated by intermittent sources, the more the full load hours decline.

In 2015, the installed RE capacity was slightly higher than the conventional capacity (97.4 gigawatts [GW] compared with 96.7 GW). The current conventional power plant pool is already sufficient to cover the entire energy demand without relying at all on RE. However, given the priority of RE feed-in, and a "power back-up" ordinance that prevents conventional power plant owners from phasing out uneconomic sites if they are necessary for grid stability, utilities are forced to run their power plants inefficiently and to generate significantly less electricity than they technically could. Despite these imposed operational inefficiencies, conventional plants still generate more than twice as much power as RE facilities can produce with nearly the same installed capacity.

One way to think about this problem is that for every megawatt (MW) of conventional base-load capacity generated by fossil or nuclear fuel, you'd need 10 MW in solar power or 4 MW in wind. Yet this RE capacity would ensure only that one could generate the same amount of power as conventional sources over one year and not that one could supply the power when demand is high. For example, on a sunny and windy holiday, when demand is low, the generated power would exceed by far the demand, but on cold, windless nights, when demand is high, it would be rather impossible to meet demand.

The more intermittent power is fed into the grid, the more difficult it becomes to ensure a reliable and stable grid operation, especially because there is no affordable technology for storing electricity at a large scale. Wind and solar intermittencies are currently leveled by conventional power plants, most of which are coal-burning. The alternative is pumped water storage—reservoirs that can provide hydroelectric power on demand—which is very expensive (yet cheaper than other storage technologies), with an estimated cost of 7.7 cents/kWh. Approximately 9,000 pumped-storage facilities would be needed to level the discontinuities generated by wind and solar energy in 2015. Currently there are 36.

Another consequence related to the intensive deployment of RE and the lack of appropriate storage facilities is that electricity prices have become negative in periods of low demand and high RE feed-in—that is, companies ended up having to pay users to consume electricity. The reason is that gas power is too expensive and coal power is not flexible enough to compensate intermittencies at the hourly-scale pace in which they appear. It typically takes about eight hours to run a coal power plant completely down and another eight hours to bring it up to capacity generation again. Yet coal power is still too important for the stability of the grid to be phased out, so these plants continue operation during the relatively short RE peaks where prices actually go negative on the wholesale power exchange.

Gaming the system

Intermittency is not the only difficulty created by the Energiewende. A significant if less publically known set of problems is related to the ability of actors in the energy system—especially large ones—to take advantage of loopholes and improperly specified rules, even if they know that such "gray" areas will be eliminated by policy makers as soon as they become aware of them. For example, one way that the EEGs generate revenue to support the costs of the Energiewende is through the surcharge on electricity consumption for all end uses (apart from exempted industries). But to further incentivize energy traders to increase the share of RE in their portfolio, EEG2009 allows traders with at least 50% RE power in their portfolio to deliver 100% of their electricity without the EEG surcharge. Traders dutifully designed portfolios with exactly 50% RE and 50% conventional power, reduced their electricity prices slightly, and kept the difference, thus enriching themselves while returning only minimal savings to their customers.

The RE acts also exempted companies that produced their own power from paying EEG surcharges. The resulting loophole allowed companies to lease a power plant (usually one that burned fossil fuel), produce their own electricity, and share the savings in EEG costs with the power plant's owner.

Yet another example of the perverse incentives of the Energiewende is the booming business in small lignite boilers. To avoid disproportionate bureaucratic burdens for relatively small heat-generating facilities, boilers with a thermal capacity under 20 MW are not subjected to the emissions trading law, so operators of such boilers do not have to purchase allowances for their carbon emissions. This rule led to a flourishing business in 19.9 MW lignite boilers because lignite is the cheapest fuel—even though it is also the one with the highest carbon content.

Such unintended consequences should not be surprising given the daunting complexities of the Energiewende and related efforts to steer the German energy system toward a clean energy future. Since the 1990s, such efforts include the ratification of the Kyoto protocol, the implementation of the European Emissions Trading System, the liberalization and deregulation of electricity markets, the adoption of successive support schemes for RE deployment, and the creation of complex mechanisms for promoting energy efficiency and enforcing clean air regulations—all superimposed on the major

geopolitical changes of German reunification in 1990 and the founding of the European Union in 1992. While trying to remain up-to-date with the steadily changing and increasingly complex regulatory framework, diverse actors in the energy arena have faced soaring energy costs, an increasing dependence on intermittent power sources, severe energy transmission and storage problems, forced electricity exports, negative electricity prices, and loopholes that motivate actors to take legal free rides on the backs of less favored, or less creative, players in the energy system.

Minimizing utilities

Inside the Energiewende there was no economic branch harder hit by these successive waves of induced complexity and change than the utility sector. Deregulation of the electricity market in the late 1990s triggered a strong consolidation wave; mergers among the nine largest German regional utilities led to the four big energy corporations that dominate Germany's utility sector today. This consolidation phase was followed by a period of diversification and international expansion triggered by the EEGs and other Energiewende laws. National utilities became global energy companies almost overnight, investing in new facilities and companies in Germany and other countries and generally changing their focus from domestic to international markets.

At first, utilities ignored government efforts to encourage RE deployment; later, they began to lobby against them, as they realized that managing the problem of intermittency would be both technically difficult and expensive, and that hard assets such as coal and nuclear plants were being rendered worthless. Yet, utilities soon came to recognize that the EEGs offered a comfortable pathway to making profits without taking entrepreneurial risks. By 2008, the major utilities began massively investing in RE and by 2014 they began to split their companies into "bad" traditional fossil and nuclear energy businesses that could not make a profit, and "good" entities that invested in REs.

The Energiewende's focus on RE feed-in forced utilities to run their power plants inefficiently and to generate significantly less electricity than they technically could. Meanwhile, the nondiscriminatory grid access rules created by the EEGs subjected utilities to increased competition and significant loss of market share as new players were enticed into the Energiewende arena and small, flexible entrepreneurs developed new business ideas that exploited market niches in the decentralized power generation realm. Electricity prices for industrial consumers and households significantly dropped in early deregulation stages, reaching their lowest level in 2000, and rising again under the generous schemes for the deployment of RE that became effective between 2000 and 2014.

Despite all efforts by the big utilities to improve their position in the market, the spread between revenues and earnings steadily increased and the sector shed nearly a quarter of its employees between 1998 and 2013. Shares of RWE, Germany's largest utility in 2000, rose rapidly through 2007 and have since lost about 90% of their value; Eon, currently Europe's largest utility, lost about 80% of its share value in the same interval.

Given the increased dependence on intermittent wind and solar energy, regional utility grids became increasingly difficult to operate. The grid business is strongly regulated, allowing only small predetermined margins, so the utilities lost their interest in operating transmission grids and sold significant shares of this business to compensate for losses triggered by the Energiewende. The tremendous decommissioning costs for nuclear power plants, coupled with the unsolved problem of nuclear waste disposal, added still more to the costs that the utilities had to bear and this once powerful sector was pushed to the brink of dissolution. In their desperate effort to survive, the big utilities defined new ways of working, organized and reorganized their activities, sold assets, changed the core of their business, and, finally, switched their focus to "intelligent" technologies, demand-side management, and energy services, but such efforts have done little to stabilize their long-term prospects. Today, the German utilities, especially those such as Eon and RWE that still operate major fossil and nuclear plants, lack the financial means to develop new business models, adjust to the continually changing policy frame, satisfy their stockholders, and actively shape the Energiewende. Indeed, on April 25, 2015, some 15,000 utility employees working in lignite extraction, fuel manufacturing, and coal power plant operation demonstrated in

front of Chancellor Merkel's office to get attention for their plight. But unless wholesale energy prices rise significantly, and soon, the future solvency of these major companies remains in doubt.

Is the Energiewende on track?

On the face of it, what amounts to an unintended sacrifice of the utility industry might seem like the necessary price to pay for creating a new clean energy system. Indeed, on May 15, 2016, Germany met almost its entire electricity demand with RE. These impressive results in the renewable electricity realm have attracted international attention and recognition. Numerous individuals and organizations, including Al Gore, Paul Krugman, and Greenpeace, share the optimistic view that Germany is now demonstrating that a totally decarbonized economy is both technically feasible and affordable.

But it is by no means clear that the addition of huge new RE capacity to the German electricity grid is translating into the desired outcome of reduced carbon emissions. As I have shown, the situation in the power sector is extraordinarily complex and the addition of RE capacity does not in any straightforward way displace fossil-based electricity; indeed, in some cases it has led to the increased use of cheap fossil fuels. Moreover, emissions are not determined by the power sector alone; RE deployment lags behind targeted deployment levels in the two other major energy sectors, transport and heat, making it difficult to meet the targeted RE share of the gross final energy consumption without adding yet another layer of regulation.

It seems that emissions reductions have for the most part been driven by entirely different forces than the Energiewende so far.

Current trends show a much slower reduction in carbon emissions than is needed to even come close to meeting the minimum target of 80% reduction by 2050. More perplexingly, the contribution of the power sector itself to reductions so far is quite minimal. Indeed, it seems that emissions reductions have for the most part been driven by entirely different forces than the Energiewende so far. Germany's GHG emissions have decreased by 27% since 1990, yet more than the half of this decline was achieved before the European Union ratified the Kyoto Protocol, before the first regulations to mitigate climate change became effective, and before the sophisticated European cap-and-trade system was established. These pre-Kyoto achievements were primarily related to the deliberate selection of 1990 as the reference for measuring emission reductions, since it marked the beginning of eastern Germany's economic breakdown and consequent reduction in energy use in the wake of reunification. Early voluntary commitments to climate mitigation by several industrial branches also contributed to the pre-Kyoto carbon reductions, but these were based mostly on substitution of natural gas for coal and oil. The global economic recession that started in 2008 also contributed to lower energy use and thus reduced emissions.

The post-Kyoto measures have led to relatively little mitigation in the intervening years. In fact, between 2009 and 2014, as 44,425 MW of RE capacity was added to the German power system, emissions increased. This occurred, in part, because zero-carbon nuclear facilities had to be replaced with carbon-intensive coal and gas plants. At the same time, all of the new RE capacity helped to drive down wholesale electricity prices. The European Emissions Trading System, which was supposed to be a market tool for reducing GHG emissions, proved instead to be a playing field for speculators hoping to profit from boom-and-bust cycles. And bust has been much more the norm as the emission trading rules and the rapid deployment of RE led to reduced production of fossil energy and a consequent glut of carbon allowances, whose value declined from above €20/ton of carbon dioxide emitted in 2008 to less than €3/ton in 2013 to just above €4/ton at the end of 2016. These very low allowance prices sent the wrong signals to the market and ended up making lignite and hard coal economically attractive, thus further contributing to the absolute increase of carbon emissions.

To date, then, the Energiewende's record is mixed, but very troubling. On the plus side is continued public support and a very impressive ramping up of RE capacity. But on the deficit side of the ledger are exploding energy costs, failed policy tools such as the German and European Union trading schemes, and hard-hit institutional actors—above all the major

utilities, which increasingly look as though they have been consciously sacrificed to help Germany to meet its ambitious GHG emission targets. But these targets are not being met.

The major challenge for Energiewende-like programs is to integrate intermittent sources of power into existing energy systems. But despite all efforts to convert excess electrical power to hydrogen, methane, heat, or other storable commodities, and despite all progress made in battery research, storing the electricity necessary to solve Germany's intermittency problem remains technologically, economically, and politically out of reach.

An optimist might declare that the very fact that Germany's electricity grid has not collapsed must mean that the intermittency problem is well on the way to being solved. In reality, collapse has been averted only through two mechanisms that run directly counter to the goals of the Energiewende. First, the intermittency balancing problems on cloudy and windless days could be managed only because utilities backed up intermittencies by running fossil power plants—and running them in ways that were uneconomic and especially bad for the environment. Second, Germany's electricity generation on windy and sunny days exceeded, often by far, the grid's balancing abilities, forcing the power surplus into adjacent grids, and obliging other countries to compensate for German intermittencies, which can lead to disturbances and additional costs in the other grids. Thus, these solutions are neither economically sustainable nor carbon-free. In the absence of nuclear power, Germany's transition to a low-carbon energy system depends on its ability to store enough cleanly—and affordably—generated electricity to compensate for the intermittencies created by the massive introduction of REs. Until this problem is solved, the Energiewende will remain, above all, a testimony to the unintended consequences that result from well-meaning intervention by Dichter und Denker—poets and thinkers—into complex social and technological systems.

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From: Wm F Horan <Billyhoran@aol.com>
Sent: Tuesday, March 13, 2018 11:42 PM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Burrillville influence? !

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This is an email from (The New American) sent by Wm F Horan (Billyhoran@aol.com). You may also find the following link interesting: https://www.thenewamerican.com/tech/energy/item/28447-congress-kremlin-used-green-propaganda-to-undercut-u-s-energy

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Sent: Thursday, March 15, 2018 7:43 PM
To: Bianco, Todd (PUC); Governor (GOV); rep-mattiello@rilegislature.gov; sen-ruggerio@rilegislature.gov; rep-ruggiero@rilegislature.gov; sen-dipalma@rilegislature.gov; louis_dipalma@yahoo.com; editor@newportri.com; captbirdfish@gmail.com
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Burrillville combined cycle power station is a proven superior alternative to RIGA & Fed etc. Solar-friendly bills send developers scrambling for big, open spaces

Solar PV will realize only ~20% of the advertised numbers!
It is all about the numbers especially when carnival barker like claims are made.
Wind & Solar PV snake oil at the ready to con the gullible & pick your pockets. Why repeat the socialist European failure of wind, water and solar (WWS). How many times have we heard the untruth (supporter by 2018 data) of Germany and Denmark as a text book success deploying WWS.
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Power is the capacity (of an energy source) to deliver energy. Sources are rated at their peak capacity,
i.e. a coal plant may peak at 1 Giga-Watts capacity. A rooftop solar array may peak at 2 Kilo-Watts capacity.

- Energy is heat, work or electricity delivered to a teapot, a car or a electric motor.
- Capacity Factor is the per cent fraction of time a Source delivers Energy.
- A Baseload plant (coal, nuclear or gas) typically delivers at 90% CF.
- A Solar farm typically delivers at 20% CF.
- A Wind farm typically operates at 30% CF
- Energy:
- A 1 GigaWatt Baseload Plant at 90% CF delivers a 0.9 GigaWatt-years of Energy
- **A 1 GigaWatt Wind Farm at 30% CF delivers 0.3 GigaWatt-years of Energy. **
- A 1 GigaWatt daytime Solar Farm at 20% CF delivers 0.2 GigaWatt-year of Energy .
- A GigaWatt is 10E9 Watts. A Kilo-Watt is 10E3 Watts . There are one million Kilo-Watts in a Giga-Watt

The average (in US) residential home uses 11,000 KiloWatt-hours of Energy per year. EIA. There are 8760 hours in a year. Therefore a 1 GW source delivering continuously for a year is 8750 GW-hours Energy
Therefore a 1 Giga-Watt source at 100% CF would power 8760 x 10E9 Watt-hrs divided by 11,000 Kilo-Watt hours per home = 800 thousand homes. In New England with less than average home use roughly a million homes.
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Solar PV will realize only ~20% of the advertised numbers!
The Wind Turbines will realize only ~30% of the advertised numbers!
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The USA typically an attractive financial manipulation up front deferring the day of dealing with true cost!
Energy and power comparison;
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Today Build the Burrillville power station as a bridge to near future disruptive technologies. Also concentrate on securing additional domestic sources of natural gas via pipe lines and construct local Ngas to LNG conversion with distributed storage locations. The post bridge candidate disruptive technologies Thorium Salts fission reactors & MIT based scaled Fusion Reactors. These technologies aren't your grandfathers reactor technologies burdened by significant toxic waste byproducts with a half life of many years.
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From: billyhoran@aol.com
Sent: Tuesday, March 27, 2018 12:07 PM
To: captbirdfish@gmail.com; dinorobertiri@gmail.com; dsharp401@gmail.com; Bianco, Todd (PUC); Governor (GOV); louis_dipalma@yahoo.com; rep-mattiello@rilegislature.gov; rep-ruggiero@rilegislature.gov; sen-ruggerio@rilegislature.gov
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Subject; Burrillville Power Station hearings
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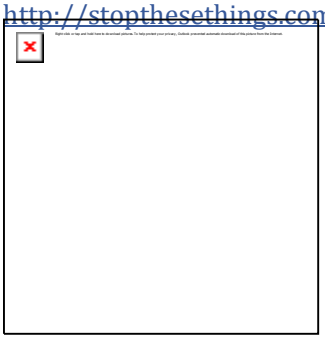

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http://providencejournal.com/news/20180410/burrillville-invenergy-settle-dispute-over-alleged-misrepresentations-about-power-plant-proposal

We need the RI PUC EFSB to push forward and approve the Burrillville power station (keeping the lights on and establishing a bridge to enabling future disruptive technologies). We just learned of ISO New England concerns re retiring aged Ngas power stations in CT because of regional powers generation concerns (source latest power Engineering trade journal). As well recent concerns raised over CT gen III fission power stations targeted closure date etc. In the mean time the widely touted MA "green power" from Canada via the Lake George / NH route that was reported to have been decided is now OBE! MA now looking at a state of Maine candidate source again requiring transmission line ROW + construction etc. Finally , yet another variant of so called cape wind under discussion once again (same candida vendors as the German & Denmark recently reported failures) . The advertised as green wind and solar is incapable of functionally providing New England with affordable, reliable and predictable electricity 24-7. Wake up people as you will freeze and overheat in the dark unless reality of disruptive technology low CO2 modern safe fission gen IV and Fusion power stations is embraced. Again Solar PV & Industrial wind turbine generated electricity while and attractive upfront finical manipulation and popular feel good stories incorporating an illusion or delusion of free electricity. However such is a calculated and cruel myth.

William F Horan
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Bianco, Todd (PUC)

From: William F Horan <BillyHoran@aol.com>
Sent: Friday, April 20, 2018 11:21 PM
To: captbirdfish@gmail.com; dinorobertiri@gmail.com; Bianco, Todd (PUC); louis_dipalma@yahoo.com; Governor (GOV); William F Horan; ka1rm@aol.com; davwein@verizon.net; johnkma@charter.net; rep-mattiello@rilegislature.gov; rep-ruggiero@rilegislature.gov; sen-dipalma@rilegislature.gov; sen-ruggerio@rilegislature.gov; rsylvia@mindspring.com; dsharp401@gmail.com; squARED22@COX.NET
Subject: [EXTERNAL] : New Hampshire governor's energy plan leans on nuclear, gas

Follow Up Flag: Follow up
Flag Status: Flagged

https://www.utilitydive.com/news/new-hampshire-governors-energy-plan-leans-on-nuclear-gas/521576/?utm_source=Sailthru&utm_medium=email&utm_campaign=Issue:%202018-04-19%20Utility%20Dive%20Solar%20%5Bissue:14978%5D&utm_term=Utility%20Dive:%20Solar

This NH approach must become the RI solution based on sound economics & engineering.
Wind, water and solar is an expensive exclusively off grid location option .
We must approve the Burrillville combined cycle natural gas fueled power station and provide the necessary Ngas pipe line capacity required for 4 such power stations.
This approach provides us with a bridge to advance to disruptive technologies in the coming years.

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Subject: [EXTERNAL] : NH energy strategy shifts from subsidizing renewables to lowering rates like the pending RI Burrillville solution!

Follow Up Flag: Follow up
Flag Status: Flagged

NH energy strategy shifts from subsidizing renewables to lowering rates

By DAVE SOLOMON
State House Bureau
April 17. 2018 9:44AM

- **Another View -- Gov. Chris Sununu: A new energy strategy for New Hampshire**
- **Study claims region's carbon tax is slashing greenhouse gases, creating jobs and reducing electric rates**

CONCORD — The first update to the state's 10-year energy strategy since 2014 takes a new tack, with a focus on lowering electricity rates and less emphasis on subsidizing renewable energy or mass transit.

The 62-page document to be released today by the Office of Strategic Initiatives raises questions about the state's renewable portfolio standards, which require utilities to purchase a certain amount of energy from renewable sources at above-market prices.

It also challenges lawmakers to consider carefully the costs versus benefits of subsidizing operations such as the Berlin biomass power plant, which contributes to economic development in the North Country while raising electricity costs for everyone.

Supporters of commuter rail will find little to cheer about in the strategy, while opponents of energy projects like the Kinder Morgan natural gas pipeline or the Northern Pass hydroelectric project are

warned that New Hampshire has to become more realistic about energy project siting.

The new strategy marks a major change in direction from the document developed in 2014 by what was then called the Office of Energy and Planning under Democratic Gov. Maggie Hassan.

While the 2014 strategy called on lawmakers to “strengthen and stabilize” the Renewable Portfolio Standards, the new policy calls them into question.

The new strategy also takes a very different view of mass transit options, such as commuter rail. According to the 2014 document, “the state should continue supporting efforts to bring additional rail to New Hampshire.”

The policy unveiled today takes a decidedly different approach: “It is unlikely that large public transit infrastructure projects will deliver energy efficient transportation for New Hampshire travelers,” the new strategy states.

“Instead of new, capital-intensive, publicly-funded infrastructure, such as extensive commuter rail systems, enabling personal vehicle options combined with on-demand fleets (like Uber) can deliver high-utilization travel. Transportation energy efficiency is more likely to be achieved with full car seats, not train cars.”

Support for Seabrook

The new strategy also suggests that New Hampshire will support extending the operating license for the Seabrook Station nuclear power plant, currently set to expire in 2030. The power plant owner, Nextera Energy, is seeking an extension to 2050.

“Preserving Seabrook Station as a source of zero-carbon energy is the most realistic and cost-effective means of managing emissions in New Hampshire,” the strategy states.

It also calls on the state to redefine its renewable energy portfolio to include nuclear power or large-scale hydro from Quebec, arguing, “If reducing emissions is a primary objective, then the RPS should be redefined to include other zero- or low-carbon resources.”

In the section dedicated to siting energy projects, the strategy notes that the siting process “often highlights tensions between individual or small community interests and collective interests.”

“Responding to these issues is difficult and requires balancing numerous interests, but does not remove the necessity of siting appropriate energy infrastructure to meet New Hampshire needs.”

The underlying theme of the document is that addressing high energy costs is critical for New Hampshire, and that the primary goal of the state’s energy policies should be cost reduction based primarily on free market forces, not government intervention.

Setting the stage

Gov. Chris Sununu said the new plan sets the stage for New Hampshire to “get out of the business of picking winners and losers in the energy market.”

“Electricity touches every aspect of the economy, and New Hampshire’s costs are among the highest in the region,” he said. “Our 10-year strategy provides direction and leadership to our state’s

policymakers that is squarely aimed at helping our ratepayers. I urge legislators to use the plan as a resource so we can lower rates, we can secure our electric system and we can take practical steps to protect our environment."

The state Senate just passed two bills that run contrary to the strategy. House Bill 365 would require utilities to purchase power from the state's biomass plants as well as small hydroelectric facilities and waste-to-energy incinerators at above-market prices.

In addition, HB 577 would require that the Public Utilities Commission re-examine Eversource's current contract with the Burgess BioPower plant in Berlin to see if it can be extended.

"Mandates to preserve biomass generation impose higher energy costs on ratepayers and are not a sustainable mechanism to achieve cost-competitive and economically viable energy resources in New Hampshire," the strategy states.

The new direction

Three bills up for hearings today before the Senate Energy Committee are more consistent with the direction of the new strategy.

One would require utilities to display the cost of renewable portfolio standards on each consumer's electric bill annually in December (HB 1550).

The other (HB 317) would require legislative approval for any increase in the so-called "systems benefits charge," which funds energy efficiency initiatives; the third (HB 1555) would require the PUC to advocate on behalf of New Hampshire when negotiating on regional energy issues. The third bill is designed to ensure that, as much as possible, Granite State electricity customers don't bear the costs associated with renewable energy initiatives in other states that we partner with in the regional grid. Massachusetts and Connecticut, for example, are both making large purchases of renewable energy at above-market costs.

"As a part of the ISO-NE grid, New Hampshire energy policy is connected to the decisions of our regional neighbors," said Sununu. "It's critical that New Hampshire's ratepayers do not bear the burden of the costly policy decisions of Southern New England. This bill will provide the state of New Hampshire with another tool to negotiate with our neighboring states."

Chris Ellms Jr., energy adviser in the Office of Strategic Initiatives, says what happens to the strategy now is largely up to lawmakers.

"It's meant as a document for policymakers," he said. "They can take it and act on it, or not act on it. It's in their hands. We produced it as a framework for them."

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To: Bianco, Todd (PUC); "governor governor"@governor.ri.gov; "rep-mattiello rep-mattiello"@rilegislature.gov; "sen-ruggerio sen-ruggerio"@rilegislature.gov; "rep-ruggiero rep-ruggiero"@rilegislature.gov; "sen-dipalma sen-dipalma"@rilegislature.gov; "louis_dipalma louis_dipalma"@yahoo.com; "editor editor"@newportri.com; ka1rm@aol.com
Subject: [EXTERNAL] : Wake up RI, CT & MA! Editorial: Wishing away our energy challenges aka we need a new Burrillville Ngas power station

Follow Up Flag: Follow up
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http://providencejournal.com/opinion/20180417/editorial-wishing-away-our-energy-challenges

While the fate of RI has many moving parts one of the key underpinnings is energy its conversion and distribution that realizes an affordable, predictable and reliable product. Today such is a necessity to sustain health, welfare and opportunity for both families and commerce etc. Your PROJO April 17th Opinion Editorial: Titled "Wishing away our energy challenges" is a welcome fact & data based message that bounds the root cause and mitigation steps that can realize an overdue modification of both citizens and leadership behaviors necessary to establish a road map addressing these very critical issues. I have participated in telecom discussions with my associates and Senator Whitehouse's Science Advisory staff member. We understand the prudent Ngas pivot and companion EPA fracking clarification in the Obama administration. That was fundamental to establishing the Ngas bridge especially for our region. However many of us have been most focused on the other side of the bridge where candidate disruptive technologies with little CO2 byproduct could become a reality. Today we suggest low CO2 Generation III-a fission power plant extensions. Future a game changer IV Fission (Thorium salts based on the Oak Ridge R&D) & separately fusion based on LM Corp issued patents and separate MIT R&D work that is promising. Most notable today is the Bipartisan efforts in the US Congress where Senator Sheldon Whitehouse has Bills out of committee waiting for a vote that will modernize and streamline government labs to better support the critical technologies advancement through the rigors of establishing a solid production product and certification process etc. Wind and solar is 2% in RI & I concluded increasing then to offset other power Gen methods is a fools road map to nowhere.

The better approach! NH update to the state's energy strategy takes a new tack, with a focus on lowering electricity rates and less emphasis on subsidizing renewable energy. Raises questions about the state's renewable portfolio standards, which require utilities to purchase a certain amount of energy from renewable sources above market prices. Also challenges lawmakers to consider carefully the costs versus benefits of subsidizing "green operations" / power plant, raising electricity costs for everyone. while opponents of energy projects like the Kinder Morgan natural gas pipeline or the Northern Pass hydroelectric project are warned that New Hampshire has to become more realistic about energy project siting!" NH will support extending the operating license for the Seabrook Station nuclear power plant, currently set to expire in 2030.. It's critical that NH ratepayers do not bear the burden of the costly W&S gen + energy policy decisions of Southern New England! Wake up RI, CT & MA!

The legislation NH is putting forward asks for inclusion of nuclear and hydro in the State RPS. If we are truly interested in our Earth habitat we should rename RPS to CFPS (carbon free or low-C). Consider that Nuclear power is vastly more "renewable" than wind and solar due to energy constancy. It "renews" itself at peak output every microsecond unlike S which renews on a roughly 12 hour cycle and peaks for 3 hours. This is because S or W is not a fuel at all.

The solar & W lobby supported by local groups incl RIPL and Sierra et al simply refuses to debate the economics of low-density, intermittent, distributed renewables W & S. Do They take orders from national higher powers? They are drinking the kool-aid tanked into New England with the oil and LNG that streamed in this winter to keep the lights on? The Sierra National board is currently anti-nuclear. They were one pro-nuclear but flipped for ideological/political reasons not safety? They are funded by the solar and wind lobbies which are funded by the oil lobby if you follow the money trail. That trail ends in lobbyist parking lots outside the US Congress and many State assemblies?

Money talks louder than science and reason. A great new book by Havard's Stephen Pinker. _Enlightement Now_ throws real light on what is happening in our Republic. Pinker a linguist has obviously done his homework on energy. Climate and Earth habitat. Expertly referenced for fact finders and reasoners. Happy Earth Day to ALL!

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To: Bianco, Todd (PUC); "governor governor"@governor.ri.gov; "rep-mattiello rep-mattiello"@rilegislature.gov; "sen-ruggerio sen-ruggerio"@rilegislature.gov; "rep-ruggiero rep-ruggiero"@rilegislature.gov; "sen-dipalma sen-dipalma"@rilegislature.gov; "louis_dipalma louis_dipalma"@yahoo.com; "editor editor"@newportri.com; ka1rm@aol.com
Subject: [EXTERNAL] : Wake up RI, CT & MA! Editorial: Wishing away our energy challenges aka we need a new Burrillville Ngas power station

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Bianco, Todd (PUC)

From: Wm F Horan <Billyhoran@aol.com>
Sent: Tuesday, March 13, 2018 11:42 PM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Burrillville influence? !

Follow Up Flag: Follow up
Flag Status: Completed

This is an email from (The New American) sent by Wm F Horan (Billyhoran@aol.com). You may also find the following link interesting: https://www.thenewamerican.com/tech/energy/item/28447-congress-kremlin-used-green-propaganda-to-undercut-u-s-energy

Bianco, Todd (PUC)

From: WILLIAM HORAN <billyhoran@cox.net>
Sent: Monday, March 05, 2018 10:38 PM
To: captbirdfish@gmail.com; DinorobertiRI@gmail.com; Bianco, Todd (PUC)
Subject: [EXTERNAL] : Fwd: The Download: The great Ngas pipeline debate

Follow Up Flag: Follow up
Flag Status: Completed

Todd Bianco RI PUC

EFSB Burrillville Site hearings

This is relevant to the Burrillville Combined Cycle Power Station fuel source via pipe line .blockade by environmental radicals.

William F Horan

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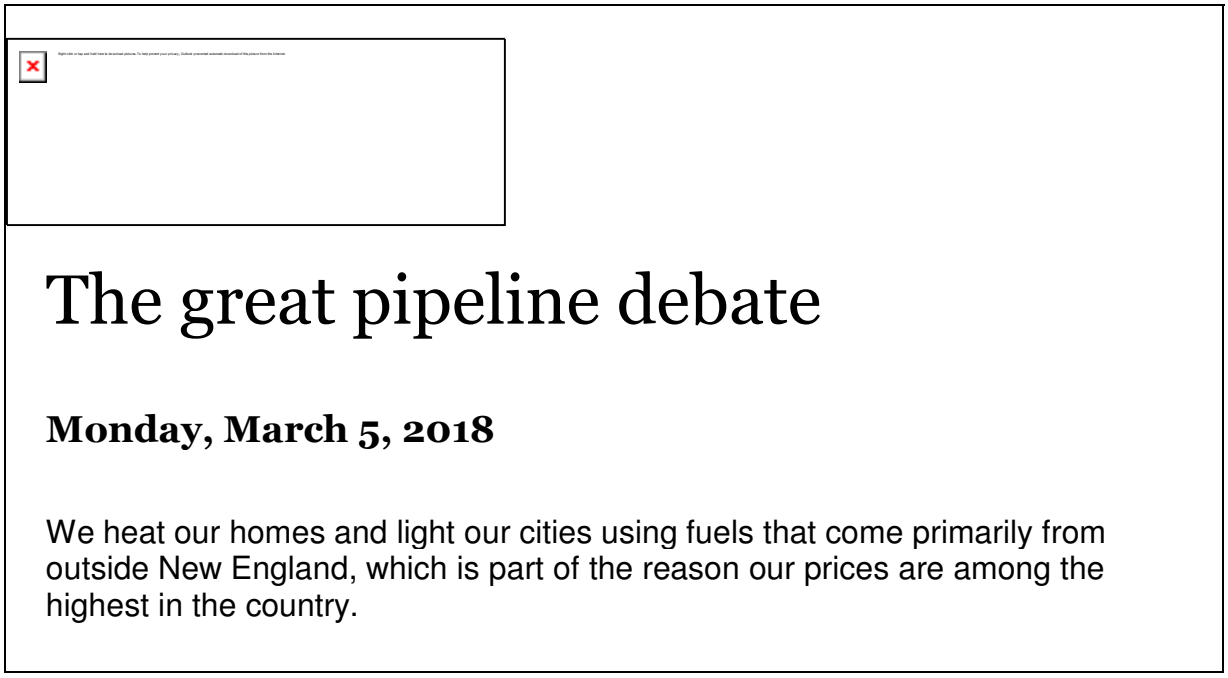
---------- Original Message ----------
From: CommonWealth Magazine <amiddle@massinc.org>
To: billyhoran@cox.net
Date: March 5, 2018 at 10:28 AM
Subject: The Download: The great pipeline debate

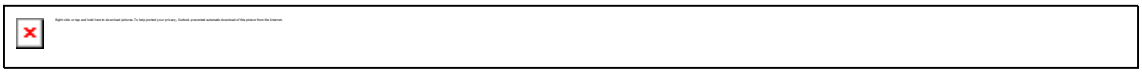


The great pipeline debate

Monday, March 5, 2018

We heat our homes and light our cities using fuels that come primarily from outside New England, which is part of the reason our prices are among the highest in the country.

But every now and then, like during the severe cold snap in late December and early January, things get really bad. The severe cold meant most of the natural gas coming into the region had to go for heating, which left little available for electric power generation. The price of natural gas in New England skyrocketed -- at one point it was the highest in the world. Power generators shifted to lower-priced but more environmentally damaging coal and oil. We burned more than 2 million barrels of oil during a 15-day period.



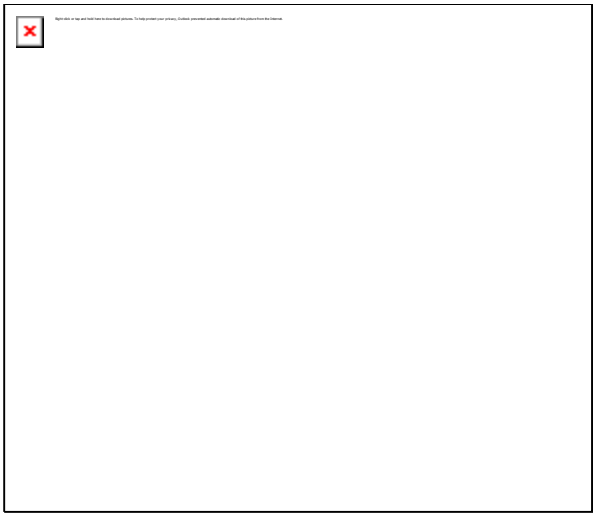
The fallout from that cold snap has rekindled one of the great policy debates of our time. Should we expand the capacity of natural gas pipelines coming into the region, and eliminate the occasional shortages and their accompanying price spikes? Or should we say no to more pipelines carrying fossil fuels, and either accept the occasional shortage (and the higher costs that come with them) or find ways to lessen their impact until we reach a clean energy future.

There are no easy answers here because there are too many variables, too many unknowns. How soon will our clean energy future arrive? Will electricity demand, which is slowing, increase as we electrify our transportation sector? How will new technologies, such as offshore wind and electricity storage, reduce our reliance on fossil fuels? And, most importantly, what will the weather be like in the future?

The Baker administration and the business community are the chief proponents of building new pipeline capacity. They had the upper hand until August 2016, when the **Supreme Judicial Court** ruled that the Baker administration lacked the legal authority to require electric ratepayers to finance a natural gas pipeline. Since then, the anti-pipeline forces have gained steam, led by environmental advocates and liberals in the state Senate who say it makes no sense to build a road to a clean energy future while simultaneously building a pipeline to fracked gas in Pennsylvania.

Last month, several of the state's leading business groups formed the **Coalition for Sustainable Energy** in a bid to rekindle the pipeline debate. The *Boston Globe* editorial page has also jumped into the fray, with a series of pieces decrying some of the interim fixes (Russian

LNG and LNG by train car) suggested to deal with the occasional shortage of pipeline gas. In an editorial on Sunday, the *Globe* condemned the "faddish anti-pipeline politics on Beacon Hill" and the "abstinence-only ideology" of Sens. **Jamie Eldridge** of Acton and **Marc Pacheco** of Taunton.



"Massachusetts needs more clean energy," the *Globe* said. "It also needs to limit the damage from its fossil fuel use, through investments that should include pipelines to finish the work of displacing dirtier fossil fuel sources like oil, coal, and imported LNG. And it needs to reject the rhetoric that pits encouraging renewables and reducing fossil fuel-related emissions against each other, as if the Commonwealth can't pursue both."

This week's Codcast features representatives from the two opposing camps -- **Robert Rio**, the senior vice president of government affairs at Associated Industries of Massachusetts, one of the founding members of the Coalition for Sustainable Energy, and **Elizabeth Turnbull Henry**, the president of the **Environmental League of Massachusetts**, which also represents many members of the business community. Listen and get up to speed.

- BRUCE MOHL

BEACON HILL

Hillary Chabot ticks off the big winners of salary boosts that came with the shuffle of Senate leadership posts set in motion by former president **Stan Rosenberg** stepping down from the chamber's top job. (*Boston Herald*)

Alan Solomont and **Arielle Jennings** push legislation mandating civics education in schools, saying it makes sense to train citizens one student at a time. (*CommonWealth*)

Spending on **pot lobbying** continues to grow on Beacon Hill. (*Eagle-Tribune*)

MUNICIPAL MATTERS

Poorer neighborhoods of **Boston** suffer with more poorly maintained sidewalks than wealthier enclaves. (*Boston Globe*)

The city of **Lawrence** is threatening to seize the historic Bay State building after its owners refuse to bring it into compliance with building codes. (*Eagle-Tribune*)

Weighing in on the proposed renaming of Yawkey Way (which he thinks is a horrible idea), **Joe Fitzgerald** unloads on Red Sox owner (and *Globe* publisher) **John Henry**, calling him a "Johnny-come-lately who, hungering for attention, has become a self-appointed paragon of virtue." (*Boston Herald*)

WASHINGTON/NATIONAL/INTERNATIONAL

With Democratic help, the US Senate is preparing to pare back the sweeping **Dodd-Frank regulations** passed after the 2008 financial crisis. (*Washington Post)*

The Trump administration has not had a lot of success, however, in ridding the federal government of agencies it set out to eliminate. (*Boston Globe*)

President Trump does, indeed, have a sense of humor. (*U.S. News & World Report*)

Writer **Ezra Dyer** offers some thoughtful reflections on gun control, but oddly mixes it with glib comments about guys with "bowl cuts." (*Boston Globe*)

ELECTIONS

Retiring Berkshire County District Attorney **David Capeless** and Gov. **Charlie Baker** put Capeless's No. 2 in charge, giving him a leg up in the fall election. (*CommonWealth*) DA races in several other counties are seeing a rise in liberal contenders and challengers. (*Boston Globe*)

Joe Battenfeld says the mounting series of problems at the State Police could become a reelection point of vulnerability for Gov. **Charlie Baker**. (*Boston Herald*) Meanwhile, **Howie Carr** catches Lt. Gov. **Karyn Polito** on her cellphone and asks her uncomfortable questions about a trooper from Polito's hometown of Shrewsbury who somehow landed on the force despite being a co-conspirator in a major drug case that landed her then-boyfriend in prison. (*Boston Herald*)

US Rep. **Seth Moulton** says he's no hypocrite and will remain neutral in the Democratic primary race between US Rep. **Michael Capuano** and Boston City Councilor **Ayanna Pressley**. (*CommonWealth*) The Capuano-Pressley showdown gets some national attention in Sunday's *New York Times*.

Sen. **Elizabeth Warren**'s three Republican challengers say they're juiced about the race because, not in spite, of her national profile. (*Boston Globe*)

BUSINESS/ECONOMY

Scott Kirsner says the state's approach to the issue of non-compete agreements is a gift to big companies that hurts the start-up sector. (*Boston Globe*)

IHeartMedia, the largest radio broadcaster in the country, prepares a bankruptcy filing. (Bloomberg)

Barnstable County officials have ordered, without explanation, the **AmeriCorps** program to find another home for its volunteers who have been housed in a county-owned house in Bourne for more than two decades. (*Cape Cod Times*)

EDUCATION

Kurt Steinberg , the executive vice president of the Massachusetts College of Art and Design, is named president of Montserrat College in Beverly. (*Salem News*)

A **Stoughton** French teacher was fired for showing her class an ultrasound device used to defend against attacking dogs. Students and administrators initially believed the device was a Taser. (*The Enterprise*)

Wareham officials are looking to shut an elementary school and eliminate 33 positions to try to close a growing deficit in the school budget. (*Wareham Courier*)

HEALTH/HEALTH CARE

State initiatives to bring back **Obamacare's** individual mandate haven't gained traction. (*Governing)* A *New York Times* story suggests otherwise.

Shriners Hospital for Children may close or pare back the well-known burn unit at its Boston hospital. (*Boston Globe*)

TRANSPORTATION

Middleboro officials expressed deep concern over the state's revised plan to run South Coast Rail through the town, saying the environmental impact report downplayed traffic concerns and was drafted without input from the town. (*The Enterprise*)

ENERGY/ENVIRONMENT

Southbridge is insisting that Casella Waste Systems continue to pick up trash and disposables for free through 2027 even though the company's landfill is shutting down at the end of this year. (*Telegram & Gazette*)

In the wake of Friday's storm, the *Washington Post* says Boston has largely been ignoring the impact on sea levels from climate change, a view city officials might take issue with. Photos and videos from places such as **Winthrop** and **Scituate** were the most dramatic but **Quincy** was by far the hardest hit community in the storm. (*Patriot Ledger*) A **Plympton** man was killed when a tree fell on his car. (*Patriot Ledger*) **Deanna Moran** of the Conservation Law Foundation says severe storm effects are the new norm. (*CommonWealth*)

Joel Wool of Clean Water Action says Massachusetts needs to end energy inequality. (*CommonWealth*)

The Trump administration plan to allow **oil and gas drilling off the New England coast** is uniting in opposition fishermen and environmentalists, who are often at odds over policy proposals. (*Boston Globe*)

Washington Gov. **Jay Inslee** fails to garner enough votes to pass a carbon tax. (*Governing*)

MEDIA

After 25 years, **Dianne Williamson** writes her last column for the *Telegram & Gazette*.

PASSINGS

Sir **Roger Bannister**, the first human to ever run a mile in under four minutes, died at the age of 88. (*New York Times*)

David Ogden Stiers , best known as the iconic character Major Charles Emerson Winchester III on the TV show M*A*S*H, died from bladder cancer at his Oregon home. He was 75. (Associated Press)

Stay connected.

Bianco, Todd (PUC)

From: William Horan <billyhoran@cox.net>
Sent: Thursday, January 04, 2018 4:23 PM
To: captbirdfish@gmail.com; DINOROBERTIri@GMAIL.COM; ka1rm@aol.com; mcohen1 @cox.net; louis_dipalma@yahoo.com; dsharp401@gmail.com; Bianco, Todd (PUC); editor@newportri.com; billyhoran@aol.com; louis_dipalma@yahoo.com; letters@providencejournal.com; johnkma@charter.net
Subject: [EXTERNAL] : Winter storm to test Northeast grid as FERC tees up decision on DOE grid rule

Follow Up Flag: Flag for follow up
Flag Status: Completed

https://www.utilitydive.com/news/winter-storm-to-test-northeast-grid-as-ferc-tees-up-decision-on-doe-grid-ru/514078/?utm_source=Sailthru&utm_medium=email&utm_campaign=Issue:%202018-01-04%20Utility%20Dive%20Newsletter%20%5Bissue:13462%5D&utm_term=Utility%20Dive

winter-storm-to-test-northeast-grid-as-ferc-tees-up-decision-on-doe-grid
The politicians, planing and regulation process all deserves an F minus for such incompetence and malfeasance.. Rhode Island has been placed in an unacceptable position by a confluence of events. Yes, many years of rank amateur national, regional and local energy policies & companion lack of timely upgrade & deployment for viable electrical generation methods. The advertised replacement was an expensive over sold and under performing low energy density wind, water & solar (WWS) pseudo science fraud that as has already run its course in Europe. Finally disruptive technologies including generation IV LFTR Thorium reactors is one of the few low pollution alternatives. Yes Oak Ridge based R&D void of familiar last generation nuclear hazardous waste bi products. The bridge providing the time to make such a transition is deployment of dual fuel capability combined cycle natural gas power stations , like the local Burrillville, RI proposed facility. Allowing those site hearings to turn into a vehicle for NIMBY regional & locals to fabricate / engage in unconscionable disruptive practices that derail both the new power station & upgrades in regional - local natural gas transmission lines ultimately sabotages the undertaking . Today's blow back with a winter cold snap and winter northeast snow storm is a sample of things to come.
Yes, a Trojan horse premature closure of the Brayton point modern clean coal power station squandered what little reserve generating capacity & was early on predicted to place southern New England in harms way in the peaks winter & summer high power demand periods.

William F Horan
Retired Engineering Fellow & Sr mgr

1 Jean Street
Middletown, RI 02842-4536
billyhoran@aol.com
4018465732

Bianco, Todd (PUC)

From: William Horan <billyhoran@cox.net>
Sent: Monday, February 05, 2018 11:09 AM
To: Bianco, Todd (PUC); captbirdfish@gmail.com; DINOROBERTIri@GMAIL.COM; billyhoran@aol.com
Subject: [EXTERNAL] : What Our Pipeline Opposition Has Wrought, Fellow New Yorkers

http://naturalgasnow.org/pipeline-opposition-wrought-fellow-new-yorkers/

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Tuesday, January 02, 2018 9:53 AM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Fwd: Letter: Larry Rosenberg: Building Invenergy power plant would only add to problem

Follow Up Flag: Follow up
Flag Status: Flagged

-----Original Message-----
From: billyhoran <billyhoran@aol.com>
To: louis_dipalma <louis_dipalma@yahoo.com>; governor <governor@governor.ri.gov>; rep-mattiello <rep-mattiello@rilegislature.gov>; rep-ruggiero <rep-ruggiero@rilegislature.gov>; sen-ruggerio <sen-ruggerio@rilegislature.gov>; sen-dipalma <sen-dipalma@rilegislature.gov>; thomas.kogut <thomas.kogut@dpuc.ri.gov>; letters <letters@providencejournal.com>; francis <francis@newportri.com>
Sent: Sat, Dec 2, 2017 3:00 am
Subject: Letter: Larry Rosenberg: Building Invenergy power plant would only add to problem

http://providencejournal.com/opinion/20171130/letter-larry-rosenberg-building-invenergy-power-plant-would-only-add-to-problem

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- **William Barry**
- Rank 28
- Trusted

"The Bulletin of the Atomic Scientists is a nontechnical academic journal, published by Taylor and Francis that covers global security and public policy issues related to the dangers posed by nuclear threats, weapons of mass destruction, climate change, and emerging technologies and biological hazards. "
This is a hokie ".org" non profit that is not a "technical" or "scientific" entity. It is political hogwash and has no standing in any scientific community. There is no reason to believe anything it says and certainly no reason to prognosticate based on what they say.

BTW, CO2 has not been proven the cause of anything. That is the climatologists hypothesis which remains uncertain.« less

- 1 day ago (edited)
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Flag

- **William F Horan**

  Engineering Fellow & Sr Mgr retired / Life Member IEEE Providence Section

- The Clear River Burrillville Combined cycle gas turbine power station proposals only acceptable outcome is intimidate approval for this critical project.

  @William Barry - Yes you remarks as usual are on target & too correct. This projo academic infomercial is a plant by yet another very questionable if not nefarious agenda & purposely confusing the issues. Their WWS (wind, water & solar pv) agenda is not a viable substitute (technically or economically). Rather it is a cult like belief where one wishes it to be so. TODAY We are in possession of imperfect but rational data base driven solutions. The ebb and flow of global & national energy markets is a reality that must be acknowledged. We have candidate disruptive technologies and have identified proven bridge technologies like natural gas, clean coal and modernized nuclear fission. The climate wonks have been discredited especially by money and political agendas (no surprise here). Their work product / rational and companion catechism so far cannot pass the smell and taste test of time. Some major / now corporate environmental movements in their own right have entered into unholy alliances again rewarded with monies to carry water for competing sources of energy / conversion methods & political agendas. As such have severely damaged their utility - credibility. Our national policies recognizes these confluences of events but regional government policies lags dangerously behind realities. Yes, squandering precious time and money pandering to popular ism cults carnival barkers snake oil. AS SUCH Today we must move forward too approve & build the Burillville, RI aka CLEAR RIVER Natural gas fueled power station.

  Wm F Horan

  1 Jean Street Marshall Village

  Middletown, RI 02842-4536

  billyhoran@aol.com

  4018465732

  « less

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Tuesday, January 02, 2018 9:52 AM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Fwd: In Charlestown, officials, residents oppose power plant

Follow Up Flag: Follow up
Flag Status: Flagged

-----Original Message-----
From: billyhoran <billyhoran@aol.com>
To: thomas.kogut <thomas.kogut@dpuc.ri.gov>
Cc: captbirdfish <captbirdfish@gmail.com>; louis_dipalma <louis_dipalma@yahoo.com>; ruff <ruff@newportri.com>
Sent: Wed, Dec 6, 2017 8:13 am
Subject: In Charlestown, officials, residents oppose power plant

12/06/2017
via email thomas.kogut thomas.kogut@dpuc.ri.gov

TO; thomas.kogut thomas.kogut@dpuc.ri.gov

From; William F Horan

Subject Urgent - Please enter this communications into the record of the EFSB Hearings for the Clear River Natural Gas fueled Power Station at Burrillville RI.

Reff: http://providencejournal.com/news/20171205/in-charlestown-officials-residents-oppose-power-plant

Please see the response to a referenced 12/06/2017 projo article concerning a 12/05/20117 Charleston, RI hearing re the pending Burrillville, RI natural gas fueled power station
aka Clear River.

Posted projo comment .

- **William F Horan**

The location of the 12/05 public hearing on the power plant proposed in Burrillville was different, but the opinions expressed about the project were similar. That is charged with emotion and lacking in creditable, quantitative & factual information. The external cult of politically motivated environment terrorist continue to stoke a local NIMBY victim hood assembly with misinformation and fear. The result is a string of red herrings and companion canards devised in attempting to distract us from the critically needed new power station aka clear river combined cycle gas turbine electrical generation facility. The NIMBY marchers even complaining about the string of delays they have manufactured, creating costly extended reviews. Today radicals have fabricated cooling water backup alternatives as one of their many devious Trojan horses intended to generate misinformation & fear destroying the project. This local misguided advocacy is troubling, the magical thinking alternative (WWS) wind, water & Solar electrical generation cult (contrary to claims) has been economically & technically discredited across Europe. Why must we repeat their latest failed grand experiment in socialism? The bridge to our sustaining affordable & reliable electrical generation is; new natural gas combined cycle , extended operation for existing nuclear fission and clean coal power stations. The future could bring generation IV modern nuclear fission / Thorium fueled reactors & even scaled nuclear fusion similar to work in progress at MIT. The hyped impractical WWS advocacy is out of step with both reality & the nations identified solutions especially for this region of our nation. . The costly and time consuming obstructions to concluding the hearings with project approval must be ended.

Please approve The Clear River Project with out further delay.

Thank You
William F Horan
Engineering Fellow Retired
Life Member IEEE
Member Providence Section IEEE executive committee.

1 Jean Street Marshall Village
Middletown, RI 02842-4536

Billyhoran@aol.com
401 846 5732

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Tuesday, January 02, 2018 9:51 AM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Fwd: Proposed Burrillville power plant faces another challenge

Follow Up Flag: Follow up
Flag Status: Flagged

-----Original Message-----
From: billyhoran <billyhoran@aol.com>
To: johnkma <johnkma@charter.net>; ka1rm <ka1rm@aol.com>; DinoRobertiRI <DinoRobertiRI@gmail.com>; governor <governor@governor.ri.gov>; thomas.kogut <thomas.kogut@dpuc.ri.gov>; captbirdfish <captbirdfish@gmail.com>
Cc: editor <editor@newportri.com>
Sent: Wed, Dec 27, 2017 12:51 am
Subject: Proposed Burrillville power plant faces another challenge

http://providencejournal.com/news/20171226/proposed-burrillville-power-plant-faces-another-challenge

The attempted sabotage of the new Burrillville combined cycle natural gas fueled power plant still continues today! This is another example of why RI remains as a bottom feeder bypassed by economic opportunity to engage in creating a shared prosperity.. Yes, inadequate / floored alternatives project continues in spit of the public knowledge that the WWS (wind, water & Solar pv) cult is not a practical optional national, regional or local policy. Affordable, reliable, predictable and available electricity is being replaced by alternatives that will surely create energy poverty and a companion economic calamity.

William F Horan
1 Jean St
Middletown,RI 02842-4536

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Tuesday, January 02, 2018 9:49 AM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Fwd: Concerns - EFSB Hearings regarding the Clear River Natural Gas fueled Power Station at Burrillville RI.

Follow Up Flag: Follow up
Flag Status: Flagged

-----Original Message-----
From: billyhoran <billyhoran@aol.com>
To: captbirdfish <captbirdfish@gmail.com>; thomas.kogut <thomas.kogut@dpuc.ri.gov>; louis_dipalma <louis_dipalma@yahoo.com>; governor <governor@governor.ri.gov>; rep-mattiello <rep-mattiello@rilegislature.gov>; sen-ruggerio <sen-ruggerio@rilegislature.gov>; rep-ruggiero <rep-ruggiero@rilegislature.gov>
Sent: Fri, Dec 29, 2017 4:18 pm
Subject: Concerns - EFSB Hearings regarding the Clear River Natural Gas fueled Power Station at Burrillville RI.

12292017
, thomas.kogut@dpuc.ri.gov
Urgent - Please forward this communications to all board members & enter into the record of the EFSB Hearings regarding the Clear River Natural Gas fueled Power Station at Burrillville RI.

Ultimately do we in RI have the Technical & political leadership and savvy to identify a solution based on the common good and general welfare for all RI citizens?
Only informed citizens engaged in collaborative open & honest dialog can provide a necessary foundation for such.
The proposed Burrillville power Station hearings, over time, could morph into an almost hostile environment lacking in a discourse and civility necessary for our nations age old traditions of an exchange & debate for wide ranging topics, knowledge, ideas & opinion.
These decisions before us impact all RI citizens well beyond those legitimate concerned citizens in attendance and or an individual city or town.
Lobbyist and outside single issue promoters / activists / agitators and or nefarious intent can distracted us from our shared duties of a mindful discussion covering the totality of the question before us.

William F Horan
1 Jean Street
Middletown, RI 02842-4536
billyhoran@aol.com
4018465732

attachment ;
http://providencejournal.com/opinion/20171228/letter-chris-troiano-balanced-coverage-needed-on-power-plant-proposa

Letter: Chris Troiano: Balanced coverage needed on power plant proposal

Posted Dec 28, 2017 at 5:56 PMUpdated Dec 28, 2017 at 5:56 PM

The Providence Journal's Nov. 26 editorial ("Facing reality with natural gas") was a pleasure to read. It was a level-headed, thoughtful and factual piece on the importance of natural gas for New England. It also referred to Invenergy's proposed Clean River Energy Center without prejudice, calling it a (proposed) natural gas power plant.

The editorial was far better than the articles that continuously refer to the proposed plant as a "fossil fuel plant" or a "fossil fuel-burning plant."

I have no skin in the game, so-to-speak. I don't live in or near Burrillville, have no investments in Invenergy, and don't use natural gas, at least directly. I do use and need affordable electricity. And like others, I, my family and Rhode Island businesses will be increasingly dependent on electricity.

My reason for this letter is to ask for unbiased coverage on this topic. Opinions and commentary are for the Commentary section of the newspaper. Let facts lead the way to balanced reporting.

I know that alternative energy sources, not limited to wind, water and solar power, are important to our future. The reality is that natural gas-fired power plants are an absolute near-term (50 years?) necessity. Such plants are infinitely better than nuclear, coal, diesel and heavy-oil burning plants. And given the ever present hurdles of NIMBYers, together with the complexities and delays of regulatory and environmental reviews, we should embrace natural gas as a pathway to cleaner, efficient and environmentally responsible alternative energy sources.

Chris Troiano

Cumberland

I

- **William F Horan**
- Rank 0

Chris - bleeding into the discussion is the GEO political Energy equation sandwiched with an alignment of the domestic energy providers and methods for generating and distribution of electricity. Some of this "economic combat" has further confused the local Burrillville Proposal for a desperately needed natural gas fueled combined cycle power plant as a bridge to the future technologies. Locally we have two very partisan detractors a) the WWS aka wind, water, & solar advocates subscribing to a "belief" that such can almost totally replace other means of domestic power production. Here the mathematics applied to technical & economic factors + European failures proves their "belief" to be erroneous. b) We have been "blessed" with outside agitators some mascaraing as environmentalist that have targeted a local NIMBY / some exhibiting fear and ignorance. Ultimately do we in RI have the political leadership and savvy to identified a solution based on the common good and general welfare of all citizens? Only informed citizens engaged in collaborative open & honest dialog can provide a necessary foundation for such.« less

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- **William Barry**
- Rank 28
- Trusted

Chris - Unfortunately, this issue involves less than a rational discussion. The NIMBYers and the Enviromaniacs will not accept the science which tells them wind and solar are incapable of replacing fossil fuels as a reliable source. Yet these same folks will quote as gospel that the meager CO2 molecule is the criminal in the Climate Change hypothesis which remains unproven.

- 18 hours ago
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Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Tuesday, January 02, 2018 9:40 AM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Fwd: Urgent - EFSB The Clear River Burrillville Combined cycle gas turbine power station proposals only acceptable outcome is intimidate approval for this critical project.

Follow Up Flag: Follow up
Flag Status: Flagged

-----Original Message-----
From: billyhoran <billyhoran@aol.com>
To: thomas.kogut <thomas.kogut@dpuc.ri.gov>
Cc: letters <letters@providencejournal.com>; francis <francis@newportri.com>
Sent: Sat, Nov 25, 2017 12:02 am
Subject: Urgent - EFSB The Clear River Burrillville Combined cycle gas turbine power station proposals only acceptable outcome is intimidate approval for this critical project.

thomas.kogut@dpuc.ri.gov,
Please enter my correspondence attached below into the official records for The Energy Facility Siting Board that is set to hold a hearing on Monday 11/27/2017 at 10 a.m. in its offices in Warwick on a host of motions regarding the Clear River Burrillville Combined cycle gas turbine power station proposal.
Thank you,
William F Horan

Engineering Fellow retired

Middletown, RI 02842-4536

1 Jean Street Marshall Village

4018465732

billyhoran@aol.com

-----Original Message-----
From: billyhoran <billyhoran@aol.com>
To: letters <letters@providencejournal.com>; francis <francis@newportri.com>
Cc: louis_dipalma <louis_dipalma@yahoo.com>; governor <governor@governor.ri.gov>; sen-ruggerio <sen-ruggerio@rilegislature.gov>; sen-dipalma <sen-dipalma@rilegislature.gov>; rep-mattiello <rep-mattiello@rilegislature.gov>; rep-ruggiero <rep-ruggiero@rilegislature.gov>
Sent: Fri, Nov 24, 2017 11:49 pm
Subject: The Clear River Burrillville Combined cycle gas turbine power station proposals only acceptable outcome is intimidate approval for this critical project.

The Clear River Burrillville Combined cycle gas turbine power station proposals only acceptable outcome is intimidate approval for this critical project.

The Energy Facility Siting Board is set to hold a hearing on Monday 11/27/2017 at 10 a.m. in its offices in Warwick on a host of motions regarding the Clear River Burrillville Combined cycle gas turbine power station proposal. The only acceptable outcome is intimidate approval for this project. The political pandering of the NIMBY victim hood marchers

& obstructionist performing for nefarious elements must be terminated. Governor Raimondo it is time for you to fish or cut bait as to a viable energy future for RI Public utilities. You have taken too long with the ESB hearings - approval process. You have not exercised decisive leadership resulting in a continuation of a self induced energy poverty and companion economic calamity for RI citizens. OBTW your WWS / wind water solar generated electricity program is not a viable substitute. That is technically un scaleable to supplement never mind replace other more economical methods for power generation. Hence RI is embarked on yet another self induced economic time bomb of epic proportion.

William F Horan

Engineering Fellow retired

Middletown, RI 02842-4536

1 Jean Street Marshall Village

4018465732

billyhoran@aol.com

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Tuesday, January 02, 2018 9:39 AM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Fwd: Urgent - Projo.com Editorial: Facing reality with natural gas

Follow Up Flag: Follow up
Flag Status: Flagged

-----Original Message-----
From: billyhoran <billyhoran@aol.com>
To: thomas.kogut <thomas.kogut@dpuc.ri.gov>
Sent: Sat, Nov 25, 2017 6:01 pm
Subject: Urgent - Projo.com Editorial: Facing reality with natural gas

TO; thomas.kogut thomas.kogut@dpuc.ri.gov

Urgent - Please enter this communications into the record of the EFSB Hearings for the Clear River Natural Gas fueled Power Station at Burrillville RI.

Reff: http://providencejournal.com/opinion/20171125/editorial-facing-reality-with-natural-gas

Pleas see the attached communications in response to today's projo article concerning approval of the pending Burrillville natural gas fueled power station
aka Clear River

Posted projo comment .

- **William F Horan**
- Rank 0

Spot on! RI MUST approve the Clear River combined cycle natural gas fueled power station with out allowing more mfg bogymen creating additional needless delay. Further RI must become a regional advocates for modernizing and expanding natural gas transmission lines and associated infrastructure. In the interim period until gas transmission line construction catch up with demand, for low usage periods, a local LNG conversion and storage facility could be constructed adjacent to the existing pipe line entry to RI at Burillville RI. This would create a locally stored supply of fuel to utilize in peak periods etc. Natural gas is the bridge fuel of choice during a future migration to disruptive energy technologies orderly development and deployment. The hyped WWS - wind , water, and solar alternative is a fiction based on a cult like magical thinking defying sound logic. Economics and engineering disciplines have debunked the baseless claims for this latest alleged green renewable cronies capitalism ponzi scheme.

Please approve The Clear River Project with out further delay.

Thank You
William F Horan
Engineering Fellow Retired
Life Member IEEE
Member Providence Section IEEE executive committee.

1 Jean Street Marshall Village
Middletown, RI 02842-4536

Billyhoran@aol.com
401 846 5732

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Tuesday, January 02, 2018 9:37 AM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Fwd: In Charlestown, officials, residents oppose power plant

Follow Up Flag: Follow up
Flag Status: Flagged

-----Original Message-----
From: billyhoran <billyhoran@aol.com>
To: thomas.kogut <thomas.kogut@dpuc.ri.gov>
Cc: captbirdfish <captbirdfish@gmail.com>; louis_dipalma <louis_dipalma@yahoo.com>; ruff <ruff@newportri.com>
Sent: Wed, Dec 6, 2017 8:13 am
Subject: In Charlestown, officials, residents oppose power plant

12/06/2017
via email thomas.kogut thomas.kogut@dpuc.ri.gov

TO; thomas.kogut thomas.kogut@dpuc.ri.gov

From; William F Horan

Subject Urgent - Please enter this communications into the record of the EFSB Hearings for the Clear River Natural Gas fueled Power Station at Burrillville RI.

Reff: http://providencejournal.com/news/20171205/in-charlestown-officials-residents-oppose-power-plant

Please see the response to a referenced 12/06/2017 projo article concerning a 12/05/20117 Charleston, RI hearing re the pending Burrillville, RI natural gas fueled power station
aka Clear River.

Posted projo comment .

- **William F Horan**

The location of the 12/05 public hearing on the power plant proposed in Burrillville was different, but the opinions expressed about the project were similar. That is charged with emotion and lacking in creditable, quantitative & factual information. The external cult of politically motivated environment terrorist continue to stoke a local NIMBY victim hood assembly with misinformation and fear. The result is a string of red herrings and companion canards devised in attempting to distract us from the critically needed new power station aka clear river combined cycle gas turbine electrical generation facility. The NIMBY marchers even complaining about the string of delays they have manufactured, creating costly extended reviews. Today radicals have fabricated cooling water backup alternatives as one of their many devious Trojan horses intended to generate misinformation & fear destroying the project. This local misguided advocacy is troubling, the magical thinking alternative (WWS) wind, water & Solar electrical generation cult (contrary to claims) has been economically & technically discredited across Europe. Why must we repeat their latest failed grand experiment in socialism? The bridge to our sustaining affordable & reliable electrical generation is; new natural gas combined cycle , extended operation for existing nuclear fission and clean coal power stations. The future could bring generation IV modern nuclear fission / Thorium fueled reactors & even scaled nuclear fusion similar to work in progress at MIT. The hyped impractical WWS advocacy is out of step with both reality & the nations identified solutions especially for this region of our nation. . The costly and time consuming obstructions to concluding the hearings with project approval must be ended.

Please approve The Clear River Project with out further delay.

Thank You
William F Horan
Engineering Fellow Retired
Life Member IEEE
Member Providence Section IEEE executive committee.

1 Jean Street Marshall Village
Middletown, RI 02842-4536

Billyhoran@aol.com
401 846 5732

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Tuesday, January 02, 2018 9:32 AM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Fwd: Burrillville - The KEY Bridge allowing RI to prosper until future viable power generating technologies become available.

Follow Up Flag: Follow up
Flag Status: Flagged

-----Original Message-----
From: billyhoran <billyhoran@aol.com>
To: thomas.kogut <thomas.kogut@dpuc.ri.gov>
Cc: captbirdfish <captbirdfish@gmail.com>; louis_dipalma <louis_dipalma@yahoo.com>
Sent: Sat, Dec 30, 2017 6:37 pm
Subject: Burrillville - The KEY Bridge allowing RI to prosper until future viable power generating technologies become available.

thomas.kogut@dpuc.ri.gov

Urgent

- Please enter this communications into the record of the EFSB Hearings for the proposed Clear River Natural Gas fueled Power Station at Burrillville RI.
Please pass my communications on to all EFSB / RI PUC plus other interested RI elected & appointed members of government.

Today we are engaged in and preoccupied with the local proposed Burrillville Power Station hearings and must not lose sight of a prudent tradition to as well think globally while we ultimately must act locally.

I have stated that if one takes the longer view - the proposed Combined Cycle natural gas power station at Burrillville is the KEY Bridge allowing RI to prosper until future viable power generating technologies become available.. In the din of the ongoing hearings - have we framed the depth and breath of the challenge and opportunities
for both Rhode Island and our nation?

The Federal Government (starting in a previous administration) / EPA et al made a deliberate pivot to natural gas as a bridge fuel based on the totality of the challenge in modernizing the nation energy / power generation and distribution installed base. Yes, EPA even addressed the urban legend and folk-law of fracking technologies , approving its regulated use. The politically popular WWS alternative approach aka wind, water, & solar was defacto acknowledged as an inadequate substitute for the retiring aged electrical power stations! Furthermore, based on the data, including the economic & technical European WWS failure , if the US pivot decision to natural gas was not executed an economic if not human time bomb would likely result. Yes, a self induced energy poverty and companion economic calamity...

Among those post bridge candidate future technologies is;
a) generation IV nuclear fission aka LFTR (not your fathers Nuclear Reactor)

& lagging behind in maturity by TBD years

b) Scale able Nuclear fusion. Technical progress continues at MIT et al with notable advanced R&D.

I have forwarded a brief overview below mapping today's confluence of events.

Mr. Mike Armenia (a subject mater expert) has developed a cogent presentation on the referenced subject mater. At a recent Providence Section IEEE dinner technical meeting Mr Armenia delivered that presentation to a wide ranging audience.

It is my belief that Mr Armenia has framed the depth and breath of the challenge and opportunities for both Rhode Island and our nation. I urge you to contact Mike Armenia <captbirdfish@gmail.com> and explore securing a copy if not requesting that Mr Armenia deliver his presentation.

Yes, today we are engaged in and preoccupied with the local proposed Burrillville Power Station hearings and must not lose sight of a prudent tradition to as well think globally while we ultimately must act locally.

Thank you for your time,

William F Horan
Retired Engineering Fellow & Sr Mgr
Life Member IEEE Providence Section
Member IEEE Prov Section Exe Com

1 Jean Street
Middletown, RI 02842-4536
billyhoran@aol.com
4018465732

-----Original Message-----
From: Mike Armenia <captbirdfish@gmail.com>
To: Al benson <bensonra60@gmail.com>; Aaron Regunberg <aaron.regunberg@gmail.com>
Cc: ROBERT KIERONSKI <rnrower@msn.com>; William Horan <billyhoran@aol.com>; Martin Cohen <mlcohen@ieee.org>
Sent: Sat, Dec 30, 2017 1:34 pm
Subject: Re: SuperFuel book by Richard Martin

Hi Aaron. I wrote to you before when i heard about you through Al Benson. I want to add to Al's offer to spread copies of Richard Martin's book far and wide to legislators. If you Send me names ill send them out (without attribution).

RI Scientists / Engineers Robert Kieronski, William Horan and several others retired or employed in RI: NUWC, Raytheon, General Dynamics and the IEEE organization are promoting these reactors after having started with Martin's book then as engineers actually doing the energy math that puts WWS (wind water solar) into its place as the least effective, least practical (engineering and mfg) and least safe (environmentally).

However we know that ideologically taking a position against WindWaterSolar WWS is bad politics. So many politicians continue espouse "all the above" for votes. Similarly as a scientist I know that my support of some WWS idealogues like Sierra may open a door for them to investigate the global math which clearly shows that rooftop solar on EVERY available roof world wide would supply only 6 % of needed energy even with conservation.

So if a politician wants to win the popular vote I understand promotion of ROOFTOP solar in RI with current subsidies and mandates as a personal way to save money on your electric bill. But it is disingenuous to say roof solar lowers carbon footprint. In the life cycle of a solar panel the net carbon reduction is at best about zero so these devices aren't going to do anything to halt GWarming. But they are in the public view as a symbolic answer to energy independence :"live off the grid!" and reduce COG coal oil gas. WW of course requires more COG to fill intermittency and most greens ignore that hoping that cheap battery storage is coming. It is not. Like solar on roofs battery storage is not dense. That means that to power your home and Prius w solar and batteries you will need about an acre more of roof and a battery the size of a garage. These technologies are available today but very expensive and have short useful lives (10 yrs avg) compared to nuclear power plants (60 now) and more for Gen IVs being built in China.

So bottom line: if we oppose nuclear AND COG RIlanders are going to see the highest electric rates in the USA. As our population continues to decline, our higher skill jobs disappear. Our revenue falls. then we may all to live off the grid and it wont be comfortable or safe.

Bottom line. Support next Gen IV NUCLEAR being built in China with US DoE help. Make sure the intellectual property accrues to US engineers and companies. If we don't do these political things we will be held hostage to an energy future we don't control. Energy is a 10 Trillion dollar market annually.

Best to you in this cold New Year of the hottest year on record.

Mike Armenia

On Dec 29, 2017 8:54 AM, "robert benson" <bensonra60@gmail.com> wrote:

> Aaron,
> have you read Martin's "Super Fuel" book yet? do you need a copy?
>
> You wanted to know what i thought was the most important issue for Rhode Islanders. I gave you my answer--turning around global warming and phasing out energy generation using fossil fuels.
>
> Do you think there is a more pressing issue for Rhode Islanders or for all U.S. Citizens or even for everyone on this planet? If so, i 'd like to hear it as well as the plan for solving that issue. thanks, al b.
>
> --
> Robert A. Benson, Jr.
> bensonra60@gmail.com

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Tuesday, January 02, 2018 9:31 AM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Fwd: Letter: Mary Memmott: Wind turbines aren't only danger for fishing industry

Follow Up Flag: Follow up
Flag Status: Flagged

-----Original Message-----
From: billyhoran <billyhoran@aol.com>
To: thomas.kogut <thomas.kogut@dpuc.ri.gov>
Cc: captbirdfish <captbirdfish@gmail.com>
Sent: Sat, Dec 30, 2017 9:43 pm
Subject: Letter: Mary Memmott: Wind turbines aren't only danger for fishing industry

http://providencejournal.com/opinion/20171230/letter-mary-memmott-wind-turbines-arent-only-danger-for-fishing-industry-

Today have we been distracted / engaged in and preoccupied with the WWS aka wind water & solar cult agenda? We must stay focused on realities re a local proposed Burrillville Power Station hearings.
- We must not lose sight of a prudent tradition to as well think globally while ultimately must act locally.
- We take the longer view - the proposed Combined Cycle natural gas power station at Burrillville is the KEY Bridge allowing RI to prosper until future viable power generating technologies become available.. In the din of the ongoing hearings - have we framed the depth and breath of the challenge and opportunities for both Rhode Island and our nation?
- The Federal Government (starting in a previous administration) / EPA et al made a deliberate pivot to natural gas as a bridge fuel based on the totality of the challenge in modernizing the nation energy / power generation and distribution installed base.
- Yes, EPA even addressed the urban legend and folk-law of fracking technologies , approving its regulated use.
- The politically popular WWS alternative approach aka wind, water, & solar was defacto acknowledged as an inadequate substitute for the retiring aged electrical power stations!
- Furthermore, based on the data, including the economic & technical European WWS failure , if the US pivot decision to natural gas was not already executed an economic if not human time bomb would likely result. Yes, a self induced energy poverty and companion economic calamity...
- Again, today we are engaged in and preoccupied with the local proposed Burrillville Power Station hearings and must not lose sight of a prudent tradition to as well think globally while we ultimately must act locally.

Bianco, Todd (PUC)

From: billyhoran@aol.com
Sent: Tuesday, January 02, 2018 9:29 AM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Fwd: challenged / debunked Letter: Timmons Roberts: There's no need for a new power plant

Follow Up Flag: Follow up
Flag Status: Flagged

-----Original Message-----
From: billyhoran <billyhoran@aol.com>
To: thomas.kogut <thomas.kogut@dpuc.ri.gov>; captbirdfish <captbirdfish@gmail.com>
Sent: Sat, Dec 30, 2017 10:36 pm
Subject: challenged / debunked Letter: Timmons Roberts: There's no need for a new power plant

http://providencejournal.com/opinion/20171230/letter-timmons-roberts-theres-no-need-for-new-power-plant

William F Horan

Has the author consumed large quantities of sugar laden green Kool-Aid?
- Have we been distracted and preoccupied with the WWS aka wind water & solar cult agenda? We must stay focused on a local proposed Burrillville Power Station hearings.
- We take the longer view - the proposed Combined Cycle natural gas power station at Burrillville is the KEY Bridge allowing RI to prosper until future even cleaner power generating technologies now in the lab become available.. In the din of the ongoing hearings - have we framed the depth and breath of the challenge vs opportunities for both RI and our nation?
- The Federal Government (starting in a previous administration) / EPA et al made a pivot to natural gas as a bridge fuel based on the totality of the challenge in modernizing the nation energy / power generation and distribution installed base.
- Yes, EPA etc even addressed the negative urban legend of fracking technologies , approving its regulated use.
- The politically popular WWS alternative approach aka wind, water, & solar was acknowledged as an inadequate substitute for the retiring aged electrical power stations! WWW is flawed economics & technologies capable of producing only 6% of global needs even if every roof top was solar & open-ended funds for IWT- generators!
- Also, based on the economic & technical data + European WWS failure , if the US pivot decision to natural gas was not already executed an economic if not human time bomb would likely result. Yes, a self induced energy poverty and companion economic calamity... - Again, today we are engaged in and preoccupied with the local proposed Burrillville Power Station hearings and must not lose sight of a prudent tradition to think globally while we ultimately must act locally.

William F Horan

1 Jean Street

Middletown, RI 02842-4536

billyhoran@aol.com

4018465732

Bianco, Todd (PUC)

From: travelwithkathleen@cox.net
Sent: Tuesday, November 07, 2017 12:06 PM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Public comment about Invenergy Power Plant

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Mr. Bianco,

I am addressing the Energy Facilities Siting Board per an article in the Valley Breeze and Observer Nov 2-8, 2017.

I am concerned about 2 things: the selling of public water supply by the town of Johnston and the traffic created by the possibility of the plant requiring up to 750,000 gallons of water per day.

I am a customer of the Greenville water district who gets their water from the Scituate Reservoir. How can a precious commodity like fresh water that is shared among 9 or more towns be unilaterally sold to a power plant by the town of Johnston????? What would prevent all of the towns from taking the water meant for their local customers and selling it off for other purposes? This seems like a BAD IDEA.

Secondly, the article states the the plant is expected to required between 15,000 and 750,000 gallons of water each day. This is a HUGE difference when it comes to heavy trucks rolling through already congested villages enroute to Wallum Lake Road. How many trucks would it take to transport 750,000 gallons daily??? This is also another BAD IDEA.

I don't think this power plant is practical being located in Burrillville. I hope the Board is very careful in examing ALL of the affects this plant will have on Rhode Islanders.

If there is a way that the public can recieve updates on the decision making process, please sign me up!

Very truly yours,

Kathleen Gustafson
Greenville RI

Bianco, Todd (PUC)

From: Kogut, Thomas (DPUC)
Sent: Monday, November 06, 2017 2:34 PM
To: Bianco, Todd (PUC)
Subject: FW: [EXTERNAL] : Public comment about Invenergy Power Plant

Follow Up Flag: Follow up
Flag Status: Flagged

Public Comment

From: travelwithkathleen@cox.net [mailto:travelwithkathleen@cox.net]
Sent: Monday, November 06, 2017 11:27 AM
To: Kogut, Thomas (DPUC) <Thomas.Kogut@dpuc.ri.gov>
Subject: [EXTERNAL] : Public comment about Invenergy Power Plant

Dear Mr. Kogut,

I hope I am addressing the Energy Facilities Siting Board per an article in the Valley Breeze and Observer Nov 2-8, 2017.

I am concerned about 2 things: the selling of public water supply by the town of Johnston and the traffic created by the possibility of the plant requiring up to 750,000 gallons of water per day.

I am a customer of the Greenville water disctrict who gets their water from the Scituate Reservoir. How can a precious commodity like fresh water that is shared among 9 or more towns be unilaterally sold to a power plant by the town of Johnston????? What would prevent all of the towns from taking the water meant for their local customers and selling it off for other purposes? This seems like a BAD IDEA.

Secondly, the article states the the plant is expected to required between 15,000 and 750,000 galloons of water each day. This is a HUGE difference when it comes to heavy trucks rolling through already congested villages enroute to Wallum Lake Road. This is also another BAD IDEA.

I don't think this power plant is practical being located in Burrillville.

Kathleen Gustafson
Greenville RI

Bianco, Todd (PUC)

From: Mary Pendergast <marypen211@gmail.com>
Sent: Wednesday, October 25, 2017 11:55 AM
To: Bianco, Todd (PUC); Curran, Margaret (PUC); Coit, Janet (DEM); Agrawal, Parag (DOA); Governor (GOV); VuraWeis, Lisa
Subject: [EXTERNAL] : Fall River Water for Invenergy

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Friends,

This plan is absurd. I live in Pawtucket and drove to the Fall River City Council meeting last night. Once again, just as in Woonsocket, the Council was in the dark about the whole issue and begged for information. They allowed public comment for 2.5 hours so they got an earful, with a promise that the Burriville Town Council will send them more.

Do you not see that once the people hear about the sale of water from their communities that they are then outraged? I talked to the Mayor of Fall River yesterday. He views the city's water as a "product." Ha! The only planet we know of in the entire known Universe has given us water for life, not for fracked gas/diesel power plants. Mr. Correia will find out on election day that the people want information and input before backroom deals are made.

It was mentioned last night that soon water will be more valuable than gold. It already is! The thought of transporting how many 6,000 gallon trucks of water across the bridges of Fall River is even more ludicrous than transporting from Charlestown, which again, neither the Tribe nor the townspeople support!

Why are we going on and on with this charade? Please dismiss this docket full of lies, incompleteness and now sheer desperate stupidity.
Governor, you are getting closer to saying that you oppose the Power Plant. Please do it!

Sincerely,

Mary Pendergast,RSM

Bianco, Todd (PUC)

From: K Cook <seaclearlyri@gmail.com>
Sent: Thursday, October 19, 2017 1:53 PM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : sb2015 06 Invenergy clear river public comment

Follow Up Flag: Follow up
Flag Status: Flagged

Do **NOT** permit the building of the Invenergy power plant in Burrillville!

Do not pollute our air and water so that a multinational company can produce energy that would be sold outside of Rhode Island!
We don't need the energy.
CT and Massachusetts rejected Invenergy.
Is Rhode Island going to be the dumb neighbors who will accept anything for some money and jobs and campaign contributions?
Reminds me of NY & NJ selling truckloads of garbage to southern states - they were probably happy to take the money at the time but never thought it through.

Rhode Island is a small state that needs to be taken care of…..not abused!

Unlikely Gina will have a future in RI politics if she doesn't stand up to Invenergy and say NO!

Kitty Cook
North Kingstown, RI

Bianco, Todd (PUC)

From: Donna Hutchinson <fairwindsri@gmail.com>
Sent: Friday, October 13, 2017 9:12 AM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Sb2015 06 Invenergy clear river public comment

Follow Up Flag: Follow up
Flag Status: Flagged

Please do NOT permit the building of the Invenergy Power Plant in Burrillville.

- RI doesn't need it.
- CT/MA rejected it.
- It will pollute regional air.
- It will destroy 200 acres of forest.
- It will compromise the quality of life for the community with traffic and noise.

This is a decision puts your legacy at risk – it doesn't justify any reward.

REMEMBER – **FLINT, MICHIGAN…**

Bianco, Todd (PUC)

From: sufiot@aol.com
Sent: Thursday, October 12, 2017 9:14 PM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : "sb2015 06 Invenergy clear river public comment".

Follow Up Flag: Follow up
Flag Status: Flagged

This project does not belong in the Ocean State. Please do not allow this uncalled for toxic pollution come into the lungs of my grandson and me.
Sent from my iPhone

Bianco, Todd (PUC)

From: Siobhan OBara <siobhanobara@gmail.com>
Sent: Thursday, October 12, 2017 4:05 PM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Sb2015 06 Invenergy clear river public comment

Follow Up Flag: Follow up
Flag Status: Flagged

As a resident, I urge you to NOT pass the request for this power plant.
Our neighboring states both refused to allow the plant in their borders - why should RI?
We have sufficient energy to meet the needs of Rhode Island.
We will lose 200 acres - further creating greenhouse gases and reduced green space.
Trucks will decimate our roads - often carrying chemicals that could harm us if accidents occur.

The outcome is not worth the risk.

DON'T DO IT!

SIOBHAN OBARA
REISDENT OF WICKFORD RI
401-294-2119

Bianco, Todd (PUC)

From: nlnpianist88 <nlnpianist88@gmail.com>
Sent: Thursday, October 12, 2017 2:35 PM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : SB-2015-06 power plant

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Mr. Bianco,

RE: SB-2025-06

I write urging the Energy Facility Siting Board to oppose the proposed Clear River Energy Center in Burrillville.

This power plant will use fracked gas and diesel oil -- the dirtiest type of fuel. Building this Dirty Energy Plant would destroy huge swaths of forest in tiny Rhode Island. Running this dirty energy plant would produce toxins that will poison most of RI water and air.

NO on this fracked gas/oil power plant! It would emit millions of tons of CO2 year after year. We need to stop climate change. This plant will increase the chance of environmental disasters.

RI could be a leader in clean, renewable energy from water, wind, and solar.
Take the lead and start promoting sustainable energy for RI.

Sincerely,
-- Nancy Nicholson
Providence, RI
401 521-9097

Bianco, Todd (PUC)

From: Donna Hutchinson <fairwindsri@gmail.com>
Sent: Wednesday, October 11, 2017 1:21 PM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : sb2015 06 Flint Michigan

Follow Up Flag: Follow up
Flag Status: Flagged

- **If Hillary Clinton and Barack Obama are giving the donations that Harvey Weinstein made to their campaigns….than Gina can give the Invenergy back their money, too.**
- **We don't risky decisions made like the one made by public works in FLINT, MICHIGAN.**
- **The people have put their trust in their government.**
- **NO NEW POWER PLANT IN RI – pollution knows no borders.**

Donna Hutchinson
12 Enfield
North Kingstown

Bianco, Todd (PUC)

From: Zac Oppenheimer <zoppenheimer@gmail.com>
Sent: Tuesday, October 10, 2017 12:39 PM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : SB-2015-06 Clear River Energy Center

Follow Up Flag: Follow up
Flag Status: Flagged

Hello,

As a native resident of Hampshire County, Massachusetts, I add my voice in urging against the building of a new fossil fuel power plant in Burrillville, RI. I believe that this is not a time to expand our dependency on power from fossil fuel, regardless of whether or not the new facility would run more efficiently than older plants. I feel strongly that the monetary and environmental cost of this project can be bypassed as the production of renewable energy increases. Please see to it within your power that Invenergy's Clear River project does not get approved.

Thank you,

Zachary Oppenheimer
Human Services worker
Easthampton MA

Sent from my iPhone

Sent from my iPhone

Bianco, Todd (PUC)

From: jane finkelstein <jrfinkelstein55@gmail.com>
Sent: Monday, October 09, 2017 6:36 PM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : SB-2015-06

Follow Up Flag: Follow up
Flag Status: Flagged

Please do not allow the new power plant to be built in Northern RI. It is one of the most beautiful areas in the state and as well as the country. Wildlife, natural habitats and the environment would be negatively impacted in a profound way. The Audubon Society and many other conservation organizations have expressed grave concern.

Thank you for your consideration to this vital issue.

Sincerely,

Dr. Jane R. Finkelstein

Bianco, Todd (PUC)

From: Dana Gesmondi <danag413@gmail.com>
Sent: Monday, October 09, 2017 2:05 PM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : SB-2015-06 Clear River Energy Center

Follow Up Flag: Follow up
Flag Status: Flagged

Please preserve our state's dwindling wet and forested land. Burrillville already has its share of utility burden with the TransCanada Pipeline, which tears through my yard, not to mention their hulking facility located off Sherman Farm Road. There is NO comprehensive plan or available resources to manage a disaster that can occur with a plant of this type in this corner of the state. Throughout the 1970's and 80's we fought hard and spent millions of federal and state dollars clean up the Blackstone Valley, parts of which were designated Superfund sites after it was polluted from previous decades of industrialization. People can finally enjoy this beautiful resource which empties into numerous watersheds and eventually into the Narragansett Bay, so why pollute it again? The plant poses a risk to human health it ...we already have one of the higher cancer rates in the state and nation...amonium nitrate is NO friend to human or environmental biology. Research The Texas City Disaster of 1947-that can happen here.

Please refuse to support any approval of this polluting power plant that will reduce the quality of life in our state and the purity of Rhode Island's remaining forested land. No amount of money is worth the destruction.

Furthermore, please stop touting the economic growth from the temporary union jobs as a benefit for our residents consideration. Those jobs will most likely be outsourced to union employees from Chicago where Invenergy is based and to unions they are already contracted with; there will be fewer than 35 permanent jobs from this plant. In fact, at one meeting Invenergy stated there will only be 28 permanent jobs after the plant is finished. There will be destruction of countless acres, a loss of wildlife, and wildlife habitat.

No New Power Plant.

Respectfully,
D.M. Gesmondi, MSN RN

Bianco, Todd (PUC)

From: Adam Fertig <adamhuntfertig@gmail.com>
Sent: Monday, October 09, 2017 1:53 PM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : SB-2015-06 Clear River Energy Center

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Mr. Bianco,

I am a resident of Rhode Island, and while I am unable to attend the Energy Facility Siting Board meeting tomorrow in Burrillville, I would like to express my fierce opposition to the construction of Invenergy's power plant. This utterly irresponsible fracked-gas power plant would negatively affect the entire population of Burrillville, and Rhode Island at large. It would contribute to unsustainable fossil fuel consumption and increase CO2 emissions at a time when human-made climate change is quickly becoming a global emergency. I urge you to consider the catastrophic consequences of this project.

Best,

Adam Hunt Fertig

Bianco, Todd (PUC)

From: Peter Gallotello <pfgallote@aol.com>
Sent: Tuesday, September 26, 2017 7:04 PM
To: Bianco, Todd (PUC)
Subject: [EXTERNAL] : Re: SB 2015-06 Invenergy Thermal Development Application/ Burrillville Power Plant

Follow Up Flag: Follow up
Flag Status: Flagged

Coordinator, Energy Facility Siting Board,
89 Jefferson Boulevard, Warwick, RI 0288

September 26, 2017

Dear Todd, Chairman and Energy Siting Board Members:

As a 30 year Resident of the Town of Burrillville; I'm greatly concerned about the proposed Power Plant.

The bottom line is that this plant is in my opinion a threat to our environment, property values and the public safety of Burrillville and all of Western RI and there even appears to be not enough electrical demand to support the sale of electrical futures. There are several points of concern:

1. The present Invenergy plan calls for trucking in tens of thousands of cooling water,ammonia and hydrogen gas: Estimates are 1400 truck trips a month. The road structure RT 102 and RT 100 in the proposed site location can barely handle cars and school buses never mind round the clock deliveries of water in bad weather conditions.
2. Burrillville has only a volunteer fire dept that is not capable of handing and major oil, gas or ammonia leak or explosion that could result from this plant.
3. Where is the Environmental impact study of this plant?
4. Who is going to compensate property owners from reduced property values?
5. Are one million pounds of pollution really worth the benefit of only 25 full time jobs and destroying pristine land?
6. The plant will be a white elephant project as Invenergy has only been able to sell less than half the capacity (Ref. Feb 9th Providence Journal) http://www.providencejournal.com/news/20170209/invenergy-plant-in-burrillville-fails-to-sell-power-to-regional-grid-at-auction

At least 98% of the people of Burrillville and 33 other cities in town in this state oppose this plant does their voices not matter? Our town adopted a limited 30 year development plan that would maintain the rural character of this town this plant does not fit that plan. As far as contribution to Rhode Island's energy needs Burrillville has already contributed by having a much smaller power plant in our town.

I urge the Energy Siting Board to give this matter a serious final hearing and dismiss the application entirely.

Sincerely,
Peter Gallotello
2 Whipple Avenue
Harrisville RI, 02830