


Because regulations and program designs are similar in both states, National Grid has historically leveraged results and approaches from MA evaluations for RI programs. This study developed guidance on when it is appropriate to “piggyback,” or to combine RI evaluation efforts with MA studies or adopt MA results as a proxy for RI versus stand-alone RI studies. The report recommends which approaches National Grid should use for commercial and industrial (C&I) measure groups and residential programs.

PIGGYBACKING APPROACH DESCRIPTIONS


#	Approach	Description
1	Direct Proxy	Use MA results directly for RI
2	Shared Algorithm	Calculate savings using MA data results, applied to independent RI samples
3	Pooled Sample	Collect data from both MA and RI sites, then create one combined sample large enough to meet RI precision requirements
4	Independent Sample	Conduct data collection/analysis on an independent RI sample using the same tools as MA
5	Independent Study	Conduct an RI study that leverages nothing from MA (no piggybacking)


STUDY METHODS



Compared/analyzed data from National Grid’s RI and MA billing & tracking data, the American Community Survey, and the Bureau of Labor Statistics

Interviewed RI program staff





Conducted a meta-analysis of 75 previous RI or MA studies

RECOMMENDATIONS

C&I

Recommended approach

Measure Group	1	2	3	4	5
Prescriptive Lighting				🎯	🎯
Upstream Lighting				🎯	
Custom Electric Non-Lighting				🎯	
Custom Electric Lighting				🎯	
Small Business Electric	🎯 ¹		🎯		
Prescriptive Non-Lighting			🎯 ²	🎯 ³	
Custom Gas				🎯	

1. If program limited to non-lighting.
2. With adjustments to basic approach
3. If separate evaluations conducted per measure type
4. If no billing analysis
5. If next study shows similar results for RI and MA

6. For measures other than appliance recycling
7. For appliance recycling
8. If small participant population or constrained data.

Residential

Recommended approach

Program	1	2	3	4	5
Lighting		🎯 ²		🎯	
Behavioral Programs				🎯	🎯
EnergyWise Single Family			🎯	🎯 ^{4,5}	🎯
Consumer Products	🎯 ⁶	🎯 ⁷	🎯 ⁷		
Income Eligible Single Family	🎯 ⁵	🎯 ⁵	🎯 ⁵	🎯	🎯
EnergyWise Multi-Family		🎯 ⁴		🎯	
New Construction, Code Compliance, and Building Characteristics				🎯	🎯
Demand Response Programs ⁸			🎯 ⁸	🎯	

Residential Cooling & Heating – Insufficient evidence for a strong recommendation