

NAVIGANT

ENERGY

ComEd Spillover Research

Stakeholder Advisory Group TAC Meeting

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Business Programs Spillover

» Past Research

Sector	Program	PY5 Research		
		Free ridership	Spillover	NTG
C&I	Business Standard - Lighting	0.26	0.05	0.79
C&I	Business Standard - Non-Lighting	0.31	0.06	0.75
C&I	Business Custom	0.36	0.00	0.64
C&I	Data Centers	0.52	0.00	0.48
C&I	Industrial Systems (FKA Compressed Air)	0.33	0.01	0.68
C&I	Business Retrocommissioning	No research	No research	No research
C&I	Business New Construction - Program	No research	No research	No research
C&I	BILD - Mid Stream Incentives	0.42	0.05	0.63
C&I	BILD - CFLs	0.41	0.07	0.66
C&I	BILD - LEDs	0.38	0.08	0.70
C&I	BILD - Linear Fluorescents	0.47	0.03	0.56
C&I	BILD - other	0.40	0.07	0.67
C&I	Small Business	No research	No research	No research

» **Participant Spillover – Participant Survey**

- The evaluation team has quantified participant spillover through past participant surveys and will continue to do so in PY6 and beyond.

» **Nonparticipant Spillover – Trade-Ally Survey**

- The evaluation will calculate non-participant spillover from trade ally interviews.
- Proportion of their sales of program-qualified, energy efficient equipment goes to customers that do not receive an incentive for their purchase, and how much influence the program had on these sales.
- The ratio of savings that occur from program-qualified, non-incentivized, but program influenced, sales to sales of incentivized products will be calculated.

- » **Near-Participant (or Partial Participant) Spillover.**
Two approaches:
- » **Assessment Participant Survey**
 - The savings would be based on the measures recommended in the assessments and would be extrapolated to the population of customers going through the assessments who have not completed projects.
- » **Dropout Survey**
 - Interview customers who initiated projects but ended-up cancelling.
 - Explore if the customers did end up completing their projects outside of the program and what level of influence their interaction with the program had on their decision to complete the project.
 - The savings would be based on the savings documented in the program records and would be extrapolated to the population using the completion rate ratio discovered through the survey.

- » **Non-participant spillover – general population research**
- » Because of the cost and uncertain outlook for success, the evaluation team recommends that the need for non-participant general population research be reassessed after the completion of the current proposed scope of work.

Residential Programs Spillover

» Past Research

Sector	Program	PY5 Research		
		Free ridership	Spillover	NTG
Residential	Residential Lighting Program	0.48	0.02	0.54
Residential	Fridge Freezer Recycling Rebate (Appliance R	Various	0.00	Various
Residential	Multi-Family All Electric	No research	No research	No research
Residential	Single Family with Gas - Direct Install Meas	0.23	0.03	0.80
Residential	Single Family All Electric	0.20	0.09	0.89
Residential	Single Family with Gas - Lighting	0.24	0.04	0.80
Residential	Single Family with Gas _ Showerhead	0.07	0.02	0.95
Residential	Single Family with Gas _ Kitchen Aerator	0.01	0.07	1.06
Residential	Single Family with Gas _ Bath Aerator	0.01	0.00	0.99
Residential	Single Family with Gas _ Water Heater Temp	0.12	0.00	0.88
Residential	Single Family with Gas _ Pipe Insulation	0.12	0.00	0.88
Residential	Single Family with Gas - Weatherization Me	0.10	0.11	1.02
Residential	Single Family with Gas - Attic Insulation	0.21	0.00	0.79
Residential	Single Family with Gas - Wall Insulation	0.22	0.00	0.78
Residential	Single Family with Gas - Floor Insulation (ot	0.16	0.00	0.84
Residential	Single Family with Gas - Duct Sealing	NA	NA	NA
Residential	Single Family with Gas - Air Sealing	0.14	0.00	0.86
Residential	Complete System Replacement with Gas _ Pa	No research	No research	No research
Residential	Complete System Replacement with Gas _ Tr	0.25	0 + 0.12 + 0.20	0.99
Residential	Residential New Construction	No research	No research	No research
Residential	Elementary Energy Education	No research	No research	No research

Residential Programs Spillover

Spillover research has been conducted for residential programs that have a program theory to support spillover and that have been in place in the market and are sufficiently large to support the cost of spillover research.

- » **Residential Lighting:** Participant and non-participant spillover measured in intercept surveys, which we are planning to continue in PY6/PY7.
- » **Appliance Recycling:** Program theory does not support the likelihood that there is much spillover so the evaluation has not attempted to measure it.
- » **Multi-Family:** Researched in PY3, PY4
- » **Single Family:** Researched in PY5
- » **Home Energy Reports:** Program too young to expect spillover yet.
- » **Residential HEER(CSR):** Researched in PY5
- » **Elementary Education:** Program too small to measure spillover.
- » **Residential New Construction:** Program too young to expect spillover yet.

Key CONTACTS



Randy Gunn, Director-in-Charge
Managing Director
Chicago, IL
312.583.5714
randy.gunn@navigant.com

Jeff Erickson, Project Manger
Director
Verona, WI
608-497-2322
jeff.erickson@navigant.com

Rob Neumann, Deputy Project Manager
Associate Director
Chicago, IL
312-583-2176
rob.neumann@navigant.com

Josh Arnold
Managing Consultant
Verona, WI
608-497-2328
josh.arnold@navigant.com