

# ILLINOIS SPILLOVER RESEARCH

Overview and Ameren Specific Research

June 10, 2014



Opinion **Dynamics**

# Agenda

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- ICC Conclusions on Spillover for Plan 3
- Past and Future Spillover Research
  - Ameren
  - ComEd

# Spillover Considerations for Plan 3

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- The ComEd Order specifies consideration of SO and specifically a portfolio-level study.
  - *“The Commission directs evaluators to consider spillover while being mindful of any excessive costs to measure spillover in relation to the predicted impacts of such measurements.”*
  - *“Staff’s proposal to consider a program-wide spillover survey is worthwhile and can be taken to SAG for further development. The survey has the potential to provide a cost-efficient and more accurate measurement for accounting for spillover.”*
- The Ameren Order also directs the evaluators to consider SO whenever possible.
  - *“...the Commission, in keeping with the AG’s recommendation, directs evaluators to consider spillover whenever possible while being mindful of any excessive costs to measure spillover in relation to the predicted impacts of such measurements.”*



# Past Spillover Research for Ameren (PY1-PY5)

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- Spillover research has been done for 9 of 11 programs where it is relevant.
- The majority of spillover research conducted for Ameren has focused on participant spillover based on self-reported information.
- Non-participant research was conducted for the C&I portfolio (PY3 and PY5), as well as the Residential HVAC program (PY5).

## Participant SO Based on Primary Data

- C&I:
  - Custom (3)
  - Standard (4)
  - Retro-Commissioning (2)
- Residential:
  - Lighting (3)
  - Multifamily (1)
  - Home Energy Performance (3)
  - Energy Efficient Products (1)
  - Appliance Recycling (1)
  - HVAC (2)



# Planned Spillover Research for Ameren (PY6)

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- As part of the PY6 evaluation, NTGR research including spillover is planned for the following programs:
  - Lighting
  - HVAC
  - HPwES
  - Appliance Recycling
  - Multifamily
  - ENERGY STAR New Homes
  - All Electric Homes (IPA)
  - C&I Custom
  - C&I Retro-Commissioning
  - Small Business Direct Install (IPA)
  - Small Business Prescriptive (IPA)

# Appendix

## Spillover Definitions and Protocols



# Defining Spillover

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- The CA Energy Efficiency Policy Manual (2008) provides perhaps the most detailed definition:
  - Reductions in energy consumption and/or demand in a utility's service area caused by the presence of the DSM program, beyond program related gross or net savings of participants. These effects could result from: (a) additional energy efficiency actions that program participants take outside the program as a result of having participated; (b) changes in the array of energy-using equipment that manufacturers, dealers and contractors offer all customers as a result of program availability; and (c) changes in the energy use of non-participants as a result of utility programs, whether direct (e.g., utility program advertising) or indirect (e.g., stocking practices such as (b) above or changes in consumer buying habits)." Participant spillover is described by (a), and nonparticipant spillover, by (b) and (c). Some parties refer to non-participant spillover as "free-drivers." (TecMarket Works Team, 2006)



## Defining Spillover (Continued)

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- The New York Evaluation Plan Guidance for EEPS Program Administrators provides a higher level definition:
  - The energy savings associated with energy efficient equipment installed by consumers who were influenced by an energy efficiency program, but without direct financial or technical assistance from the program. Spillover includes additional actions taken by a program participant as well as actions undertaken by non-participants who have been influenced by the program.
  - The New York Guidance document also documents the difference between inside and outside spillover.
    - Inside Spillover: Inside spillover occurs when, due to the project, additional actions are taken to reduce energy use at the same site, but these actions are not included as program savings.
    - Outside Spillover: Outside spillover occurs when an actor participating in the program initiates additional actions that reduce energy use at other sites that are not participating in the program.



