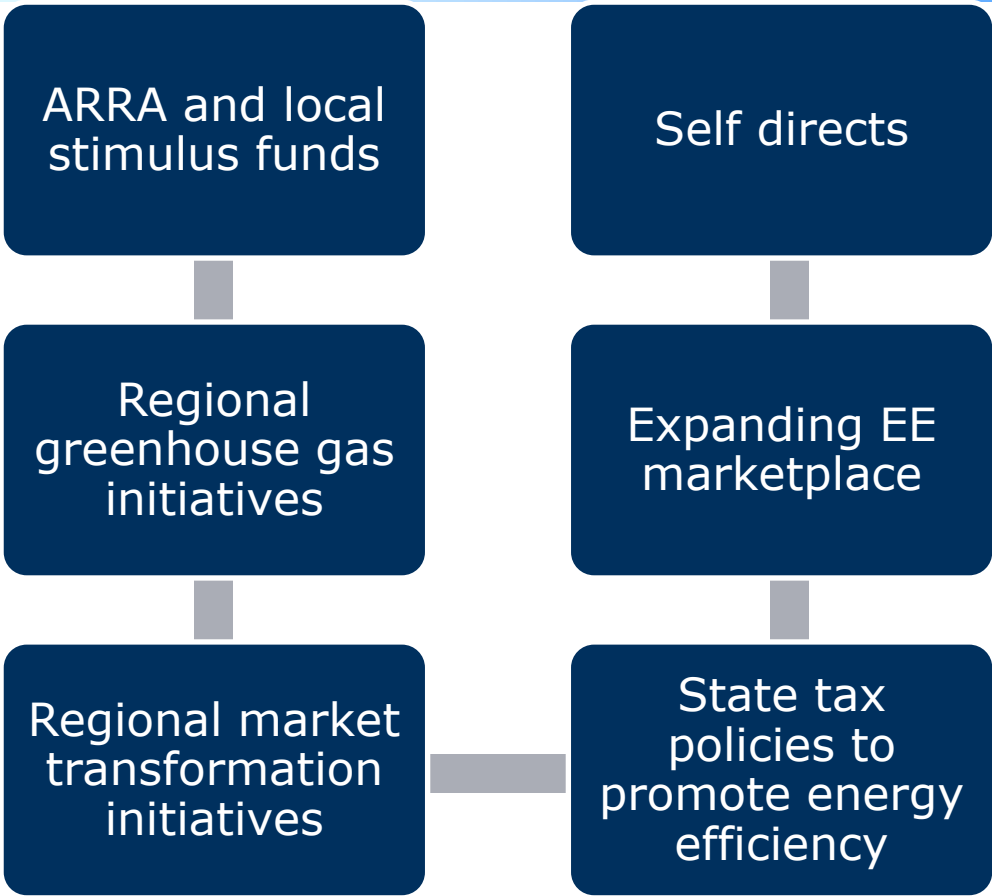


THE  
**CADMUS**  
GROUP, INC.

# **Non-Utility Programs: Savings, EM&V, and Program Considerations**

M. Sami Khawaja  
June 26, 2012

# Expansion of Non-Utility EE Programs



# Benefits of Non-Utility EE

- Can complement the utility portfolio
  - Hard-to-reach markets (NTG=1.0)
  - Innovative measures or delivery approaches
  - Promote market transformation
  - Leverage non-energy benefits
- Well-executed and coordinated NUEE can expand overall energy savings achievements

# Attribution Questions

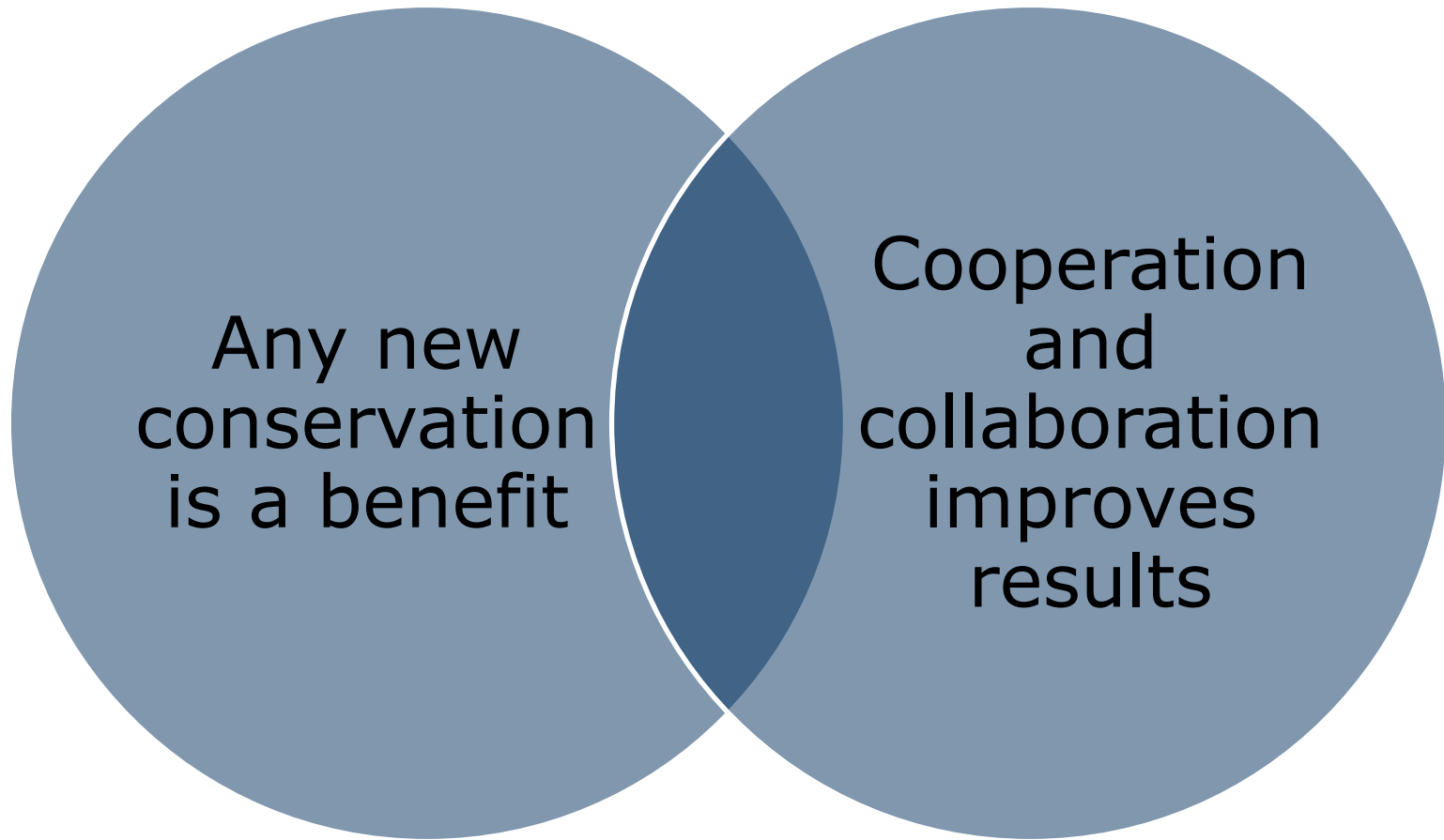


How do we slice the pie?

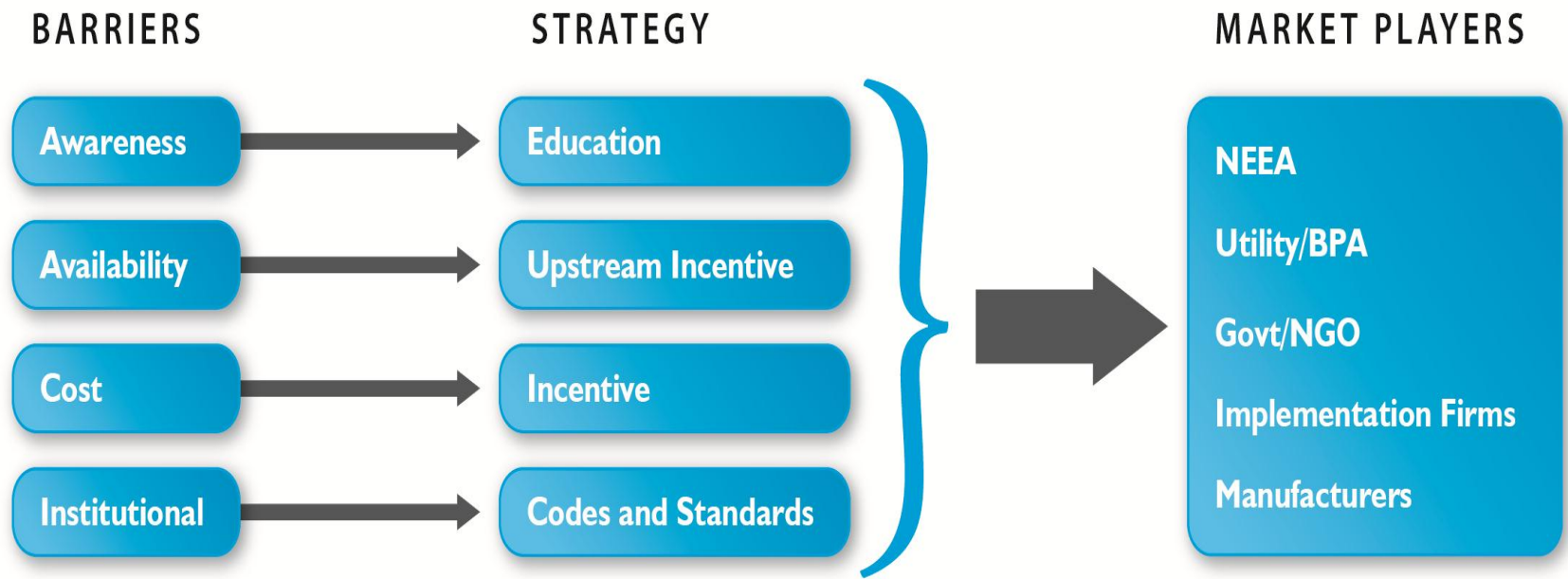


OR how do we get the biggest, best pie?

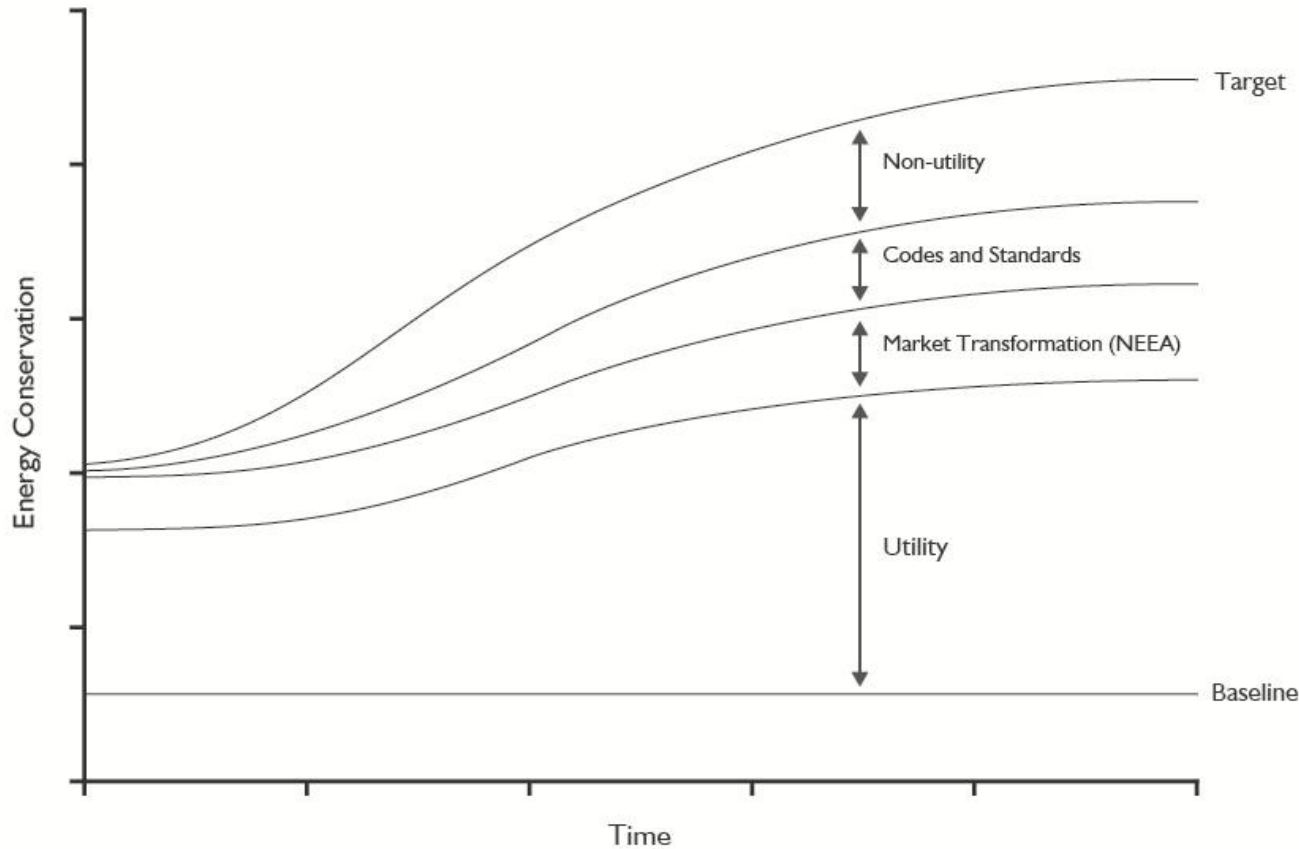
# A View from the Pacific Northwest



# A Collaborative Effort



# Targets Reflect Savings from Collaborative Efforts



*Regional targets are set by the Northwest Power and Conservation Council (NPCC) without regard to attribution.*

# Attribution in the PNW

- Level of coordination makes it difficult to appropriately attribute the region's EE to the actions taken by any one entity
- Attribution efforts may have unintended consequences:
  - Creating an atmosphere in which various entities are motivated to compete, rather than cooperate



# PNW

- Strong regional infrastructure and reporting structure supports collaboration
  - Regional deemed savings and custom M&V protocols drive consensus on savings claims – deemed savings values updated regularly to reflect changing baselines
  - Under WA I-937, utilities report impacts from programs, market transformation, codes and standards, other market-induced effects
  - Regional progress reporting to NPCC reflects all savings
- NEEA savings currently distributed by contribution

# Other

- Massachusetts State Energy Office – loan loss reserve fund
- Minnesota Office of Energy Security (OES) – revolving loan funds
- Michigan Saves and Better Buildings for Michigan – energy efficiency loans and community-focused direct installs leveraging utility infrastructure and non-utility funding
- The California Energy Commission, Public Utilities Commission and the investor-owned utilities coordinated to a single statewide, multi-agency, multi-sector retrofit program that targeted residential customers.
  - The state agencies conducted outreach and workforce development but utilities could still claim credit for savings
  - CPUC sees collaboration as key to achieving deep energy savings

# Regulatory Frameworks to Promote Collaboration

- Encouraging coordination between utility and NUEE will increase the overall energy saved
  - Attribution methodology should be determined through a collaborative process to develop a rules-based approach
  - NTG policies should address methodological challenges and drive optimal program design
  - Performance incentives may consider more than savings achievement, e.g., a utility's efforts to effectively collaborate and leverage non-utility programs may be considered as performance threshold
  - Targets should align with savings achievement measurement approach

# In Summary

- Saying that savings should be allocated fairly and according to actual contributions is obvious
- Easier said than done
- How do you achieve this? How do you track and demonstrate incremental contributions?
- You need an institutional infrastructure. In the NW, for example we have had a history of collaborative program design and implementation (BPA) and institutions like the RTF, that have been in existence for a long time.
- To achieving this in IL, you need:
  - An institutional framework (SAG may help)
  - Oversight (commissions?)
  - Tracking procedures and reporting requirements
  - M&V methods for determining and allocating savings

# One last thought

- NTG is ultimately attribution and appropriately crediting savings to parties who make the investment. In general, investments may come from three generic sources:
  1. Utility (administrator)
  2. Utility customers (participants)
  3. Other sources of funds (co-funders)
- The only difference is that the traditional NTG was about allocating savings between the utility and participants (let's forget non-participants and spillover for the moment).
- Now we need to worry about a third party entering the game.
- In the conventional NTG, we subtracted savings attributable to participant investments (freeriders) from what was reported by the utility.
- Now we need to credit someone else for them (co-funders).
- Analytically the problem is the same, just a whole lot messier (more negotiation and infrastructure needed).

- **Contact Information:**

***M. Sami Khawaja, Ph.D.***

Sr. Vice President

Energy Services

The Cadmus Group

503-467-7100 (Office)

503-467-7122 (Direct)

[Sami.Khawaja@cadmusgroup.com](mailto:Sami.Khawaja@cadmusgroup.com)

[www.cadmusgroup.com](http://www.cadmusgroup.com)