## **Midstream/Upstream**

Keys to Measure Identification, Program Design Considerations and Successful Program Implementation

> August 2, 2017

ICF Energy Efficiency Products Workshop 2017

#### Dave DeGraff, ICF

Commercial HVAC Program Manager, National Accounts Engineer, Technical Specialist HVAC Service

## Midstream/Upstream Programs Agenda

- > What are Midstream/Upstream Programs?
- > Where can they be applied? (Other Than to Lighting Measures)
- > Why choose to implement Midstream/Upstream Programs
- > What to expect from the market after implementation?
- > Typical Midstream Program Pitfalls.
- ICF Solutions, Implemented Programs and Lessons Learned.
- > Other Midstream Processes and Benefits.



# What Are Midstream/Upstream Programs & Where Are They Best Applied?

#### Midstream Programs Pay Incentives Directly to Distributors/Manufacturers

- Purpose to influence the distribution networks' stocking practices and create a transformed market.
- The market dictates if a Midstream (distributor) or Upstream (manufacturer) model is best applied. Today we'll simplify things by using the Midstream Model.

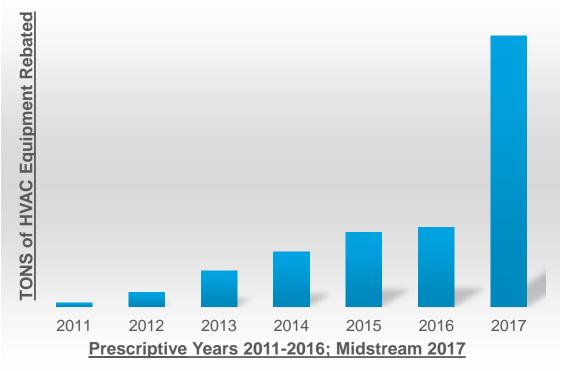
#### How to Identify Applicable Markets by Using Key Market Indicators

- > High Percentage of Purchases are Made on an Emergency Basis
- Typical Equipment Stock for Distribution Network is Base Code/Federal Minimum Efficiency Equipment Being Immediately Available Driving the Purchase.
- Long Lead Times on Factory Ordered High Efficiency Equipment
- This Identifies Several Market Segments Serving Both the Residential and C&I Industries



# Why Implement a Midstream Program and What to Expect After Implementation...

- Implement for EE Measures with Low Historic Participation Rates Using Typical Downstream Program Models.
- > We can Leap to Higher Standards and Still Expect Market Transformation



#### **Market Transformation?**

- Increased Participation by upwards of 1,500% in First Year!
- Equipment Standards set well past Federal Codes through 2019!
- Sustainable Growth of 15%-25% Through Program Years
- We are Setting the Bar well above Code

Actual Published Program Participation by Public Service Commission of Georgia 2011-2016, Q1-2017 Forecasted TONS of HVAC to Public Service Commission of Georgia

Midstream/Upstream Programs, Design Considerations & \_\_\_\_\_Successful Implementation

ICF proprietary and confidential. Do not copy, distribute, or disclose.

## **Typical Midstream Program Issues and Pitfalls**

#### High Leakage Rates (Historical Average of 25%)

- 1. No customer validation
- 2. Limited equipment validation
- 3. Improper incentive calculations
- 4. Fraudulent equipment purchases

#### Rush to Market

- 1. Lack of industry knowledge can hinder distributor participation.
- 2. It can take several months for "blind" distributors to gain traction; slowing market adoption
- Forced Incentive pass-through without Distributor Compensation
- Limited Equipment Brand Options, Limiting Market Penetration
- No Direct Customer Attribution



## **Developed ICF Solutions and Lessons Learned**

#### Eliminate the Leakage

- 1. Customer validation digitally verified through encrypted utility customer eligibility portal; keeping all customer data private!
- 2. Dynamic eligible equipment databases.
- 3. Simplified program application process with layers of validation

#### Engage the Distribution Network Early to Gain Adoption Quickly

- 1. Early identification and engagement of key industry distributors.
- 2. Program traction can take anywhere from 2 weeks to 3 months.
- Flexibility with Multiple Incentive Models
  - 1. Allow the distributors to control where/how rebate money is applied
  - 2. Rebate/Spiff hybrid model

#### <u>Utility Attribution via Automated Customer Communications</u>



### Other Processes and Benefits of Midstream Programs; The Future of DSM Programs

## Engagement & Training

- Collaboration with distributors on eligible equipment databases with precalculated/validated equipment rebates
- Distributor Program Training
- Monthly Communications
- Efficiency & Sales Training for Distributor Staff & Contractors
- Customer Validation Training

### **Implementation Costs**

- Lower Cost/kWh
- Lower number of industry partners reducing AM/PM manpower
- Empower distributors to take the marketing lead with their contractors
- No Paper + Digital Processing + Customer & Equipment Validation = No Leakage & No Errors!



Midstream/Upstream Program Models, Design Consideratons & Sucessful Implimentation

ICF proprietary and confidential. Do not copy, distribute, or disclose.

## **QUESTIONS & COMMENTS?**

## Dave DeGraff, ICF Dave.DeGraff@icf.com Cell: (314) 703-1592

