

Evaluating Low-Income Programs Why and How

2017 NEUAC Conference

Jackie Berger

June 27, 2017

APPRISE



Nonprofit Research Institute

Established in 2002

Princeton, NJ

Mission

Analyze data and information to assess and improve public programs

Research Areas

Energy Efficiency

Energy Affordability

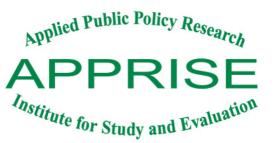
Clients

Federal Government (DOE, HHS)

State Governments

Utility Companies

Nonprofits



Session Outline

Why Evaluate? Impact Evaluation **Process Evaluation** Performance Measurement Recommendations

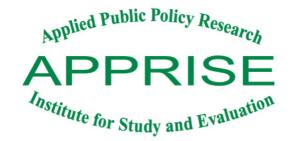


Why Evaluate?

"Measurement is the first step that leads to control and eventually to improvement. If you can't measure something, you can't understand it. If you can't understand it, you can't control it. If you can't control it, you can't improve it."

— H. James Harrington

Why Evaluate



Measure Program Impacts

- Energy usage
- Energy bill affordability
- Economic impacts
- Environmental impacts
- Health, safety, and comfort
- Cost benefit analysis

Assess Potential Improvements

- Goals
- Efficiency
- Effectiveness
- Equity
- Targeting
- Client Satisfaction

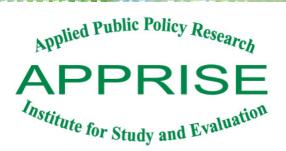
Meet Regulatory Requirements

- State
- PUC
- Other



Impact Evaluation

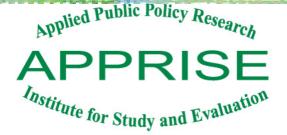
Program Data Analysis Purpose



Provides a characterization of:

- Participants
- Homes
- Measures
- Testing results

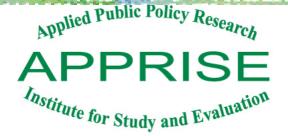




Finding: The Program is serving many vulnerable households.

Vulnerable	Treatment Group			
Status	#	0/0		
Child < 18	2,843	44%		
Elderly >62	1,881	29%		
Disabled	346	5%		
Any Vulnerable	4,624	72%		

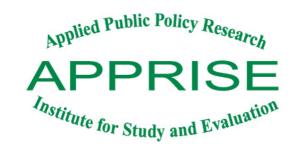




Finding: Contractors serve renters at different rates.

Occupancy Type	Contractor					
	1	2	3	4	5	
Obs.	4,082	985	812	527	31	
Own	72%	54%	74%	51%	74%	
Rent	27%	46%	26%	48%	26%	
Other	0%	<1%	<1%	<1%	0%	
Missing	2%	<1%	<1%	<1%	0%	
Total	100%	100%	100%	100%	100%	

Usage Impact Analysis Purpose



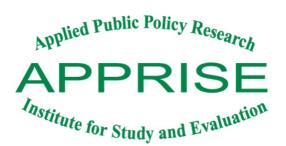
Estimate the actual impact of the program on energy affordability or energy usage.

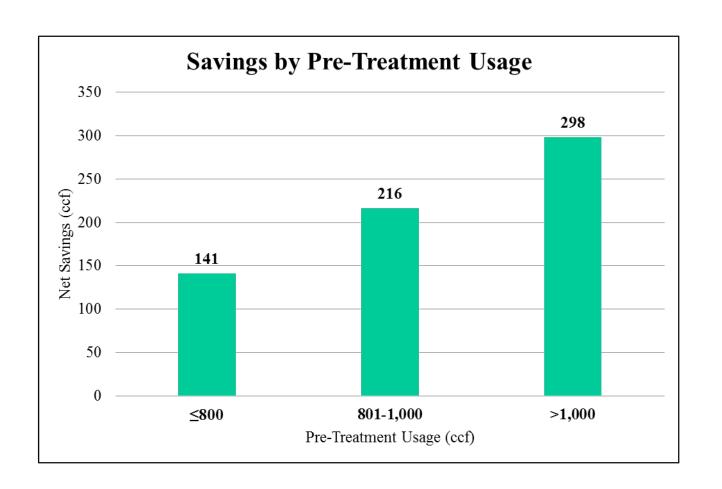
Determine the impacts of different program designs or various energy efficiency measures.

Determine the effectiveness of different providers.

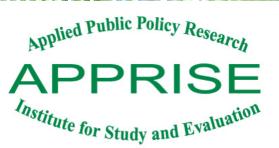
Data to use in cost effectiveness analysis.

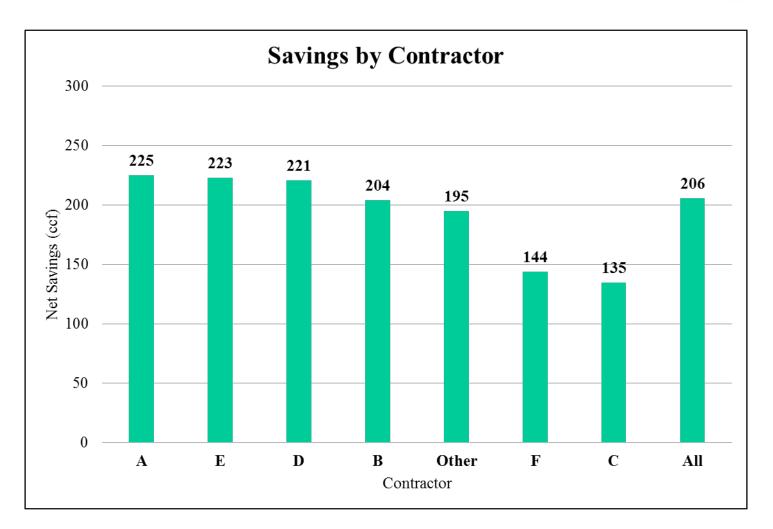
Usage Impact Savings By Pre-Usage



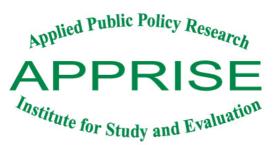


Usage Impact Savings By Contractor





Payment Impact Analysis Description



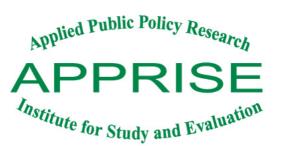
Analysis of customer bills and payments.

Analysis of assistance payments.

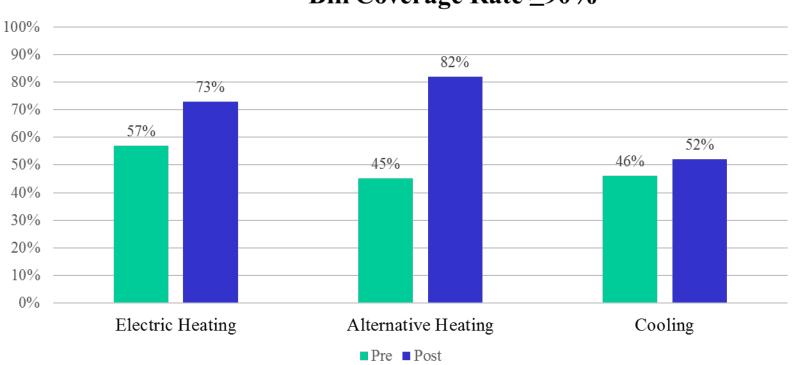
Comparison between the year preceding and the year following treatment.

Use of a comparison group.

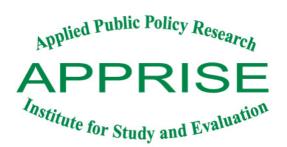
Program Impacts Bill Payment



Bill Coverage Rate ≥90%

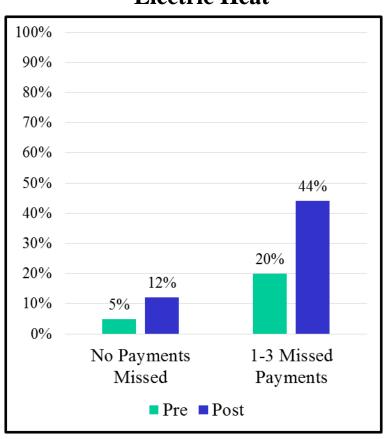


Program Impacts Bill Payment

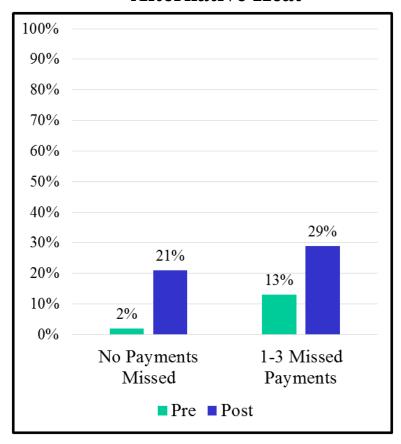


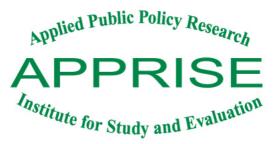
Number of Missed Payments

Electric Heat



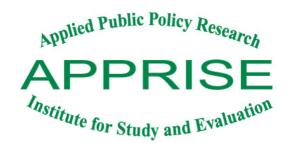
Alternative Heat





Process Evaluation

Process Evaluation Questions



How is the program designed?

- Documentation review
- Interviews with program design and management team

How is the program implemented?

- Interviews with program managers and implementers
- On-site observation
- Surveys with program participants

Why is it working or not working?

• Synthesis of all evaluation data

Process Evaluation Customer Survey



How did you find out about the Program?									
	All	Implementation Contractor							
	Respondents	1	2	3	4	5			
Completes	977	459	203	194	101	20			
	Percent of Respondents								
Friend/Relative	27%	29%	24%	23%	37%	10%			
Utility	18%	21%	14%	15%	20%	20%			
Govt. / Comm. Agency	16%	19%	15%	16%	10%	20%			
Contractor	15%	12%	17%	18%	14%	40%			
Program Flyer	8%	6%	9%	15%	7%	5%			
Bill Insert	2%	3%	3%	2%	1%	5%			
Internet	2%	1%	5%	2%	0%	5%			
Other	5%	5%	4%	5%	4%	0%			
Don't Know	14%	14%	17%	11%	12%	10%			

Process Evaluation Customer Survey

Food

20%

10%

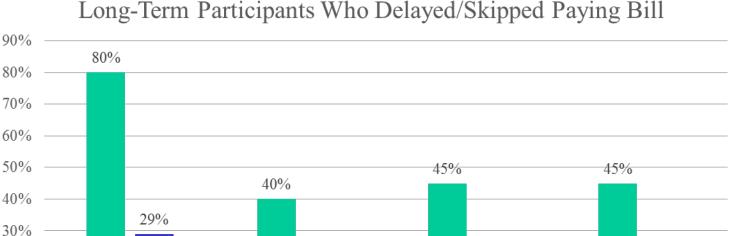
0%



21%

Mortgage / Rent

Did you every have to delay/skip the following bills or purchases to make ends meet?



17%

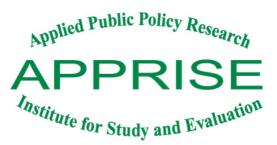
Medical / Dental

■ During Program

17%

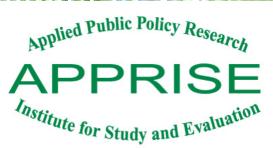
Medicine

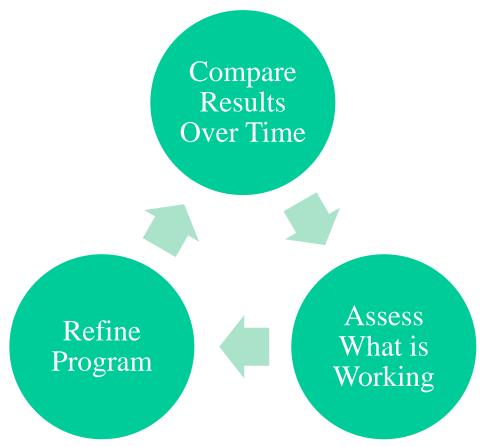
■ Before Program

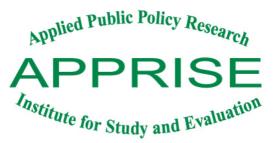


Performance Measurement

Performance Measurement Repeat

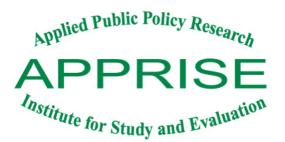


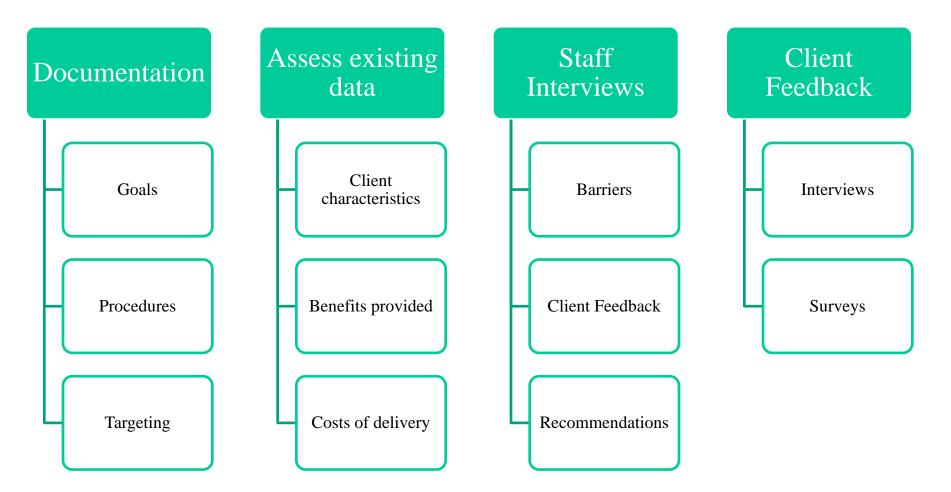




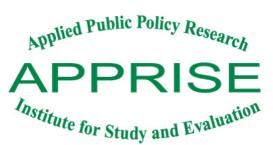
Recommendations

Getting Started





Implementing an Evaluation



- Prioritize goals for the evaluation.
- Determine available/appropriate evaluation budget.
- Choose research activities that are most likely to provide information needed.
- Combination of process and impact data is usually important.



Contact

Jackie Berger

APPRISE

32 Nassau Street, Suite 200

Princeton, NJ 08540

609-252-8009

jackie-berger@appriseinc.org www.appriseinc.org