

A Framework to Guide Gross Savings and Net Savings Policy Decisions

The Framework developed in 2016 on behalf of the Regional EM&V Forum is delivered here as a standalone product, excerpted from <u>Gross and Net Savings Principals and Guidance</u>¹, to serve as a tool/template to guide and document key elements that should be considered when making policy decisions in which gross and/or net savings from energy efficiency programs play a role. The 8 steps are:

- Step 1. Establish the common understanding of terms and definitions
- Step 2. Determine how GS and NS will be used
- Step 3. Determine whether GS or NS are applied retrospectively or prospectively
- Step 4. Determine method or methods for the GS and NS research
- Step 5. Determine the overall confidence or rigor needed in GS and NS estimates to make good decisions.
- Step 6. Determine net savings research timeframe
- Step 7. Complete a value of information analysis

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Step 8. Ensure transparency by documenting net savings decisions

Gross and Net Savings Policy Decision Framework Template, v1

This GS and NS decision framework template can be used to support consideration of the principles in the guidance document.

Portfolio/	Date of template completion	
Other	Assessment completed by	

Step 1. How are key terms defined?					
Term	Definition	Question	Response		
1a. Conceptual gross savings					
1b. Operational gross savings		What adjustments are used?			
1c. Conceptual net savings					
1d. Operational net savings		Is free ridership included?			
		Total free riders?			
		Partial free riders?			
		Deferred free riders?			
		Is spillover included?			
		Like participant spillover?			
		Unlike participant spillover?			
		Inside participant spillover?			
		Outside participant spillover?			

http://www.neep.org/sites/default/files/FINAL%20GS%20and%20NS%20Principles%20and%20Guidance%20Docume nt_2016May17.pdfXXX



				No	nparticipant spillover?	
		-		Are ma	arket effects included?	
		-		Aı	e ME clearly distinguishable	
				fr	om SO?	
1e. Operational gros	s baseline			What adjustments are made to		
				gross baseline?		
				Are adjustments included in the		
				trackir	ig system?	
1f. Operational net b	baseline			Are ad	justments to gross baseline	
				identifiable and tracked?		
1g. Other?				Are there other factors pertinent		
				to the jurisdiction that require a		
				common definition?		
Step 2. Will GS and	NS results I	be applied	retrospective	ly or pr	ospectively, and to what sav	rings
value(s)?	1		1			
Savings Value	Retrospe	ctive	Prospective		Reason or Context for Deci	sion
Gross savings, unverified						
Gross savings,						
verified						
Net savings, ex						
ante						
Net savings, ex						
post						

Step 3. Will NS research be used for:				
Application	Response	Reason or Context for Decision		
2a. Programmatic design				
2b. Cost effectiveness testing				
2c. Tracking towards goals				
2d. Lost revenue recovery				
2e. Performance incentives				
2f. Resource planning and load				
forecasting				
2g. Integrating EE resources into				
distributed energy resources (DER)				
2h. Other?				

Step 4. What is the method for determining NS?				
Method	Question	Responses	Reason or Context for Decision	
Stipulated, or deemed, values (NTG, FR, SO)	 How important is the program or measure to the portfolio? 			



Step 4. What is the method for determining NS?				
Nothod	Question	Posponsos	Reason or Context	
Method	2. Is the measure or program	Responses		
	design new or 'standard'?			
Survey-based approaches (including trade ally interviews)	 How will the research be used to inform program design? Is participant contact data available? Is it useful and prudent to research all components of net-to-gross? If not all components will be included, how will excluded components be recognized? 			
Structured expert judgment, or Delphi panel	 What other research will be conducted in conjunction with this method? How will confidence and precision requirements be addressed? 			
RCTs and quasi- experimental designs	 Was program implemented with RCT method in mind; that is, were treatment and control groups well designed? Is high quality data available for treatment and control groups? How will nonparticipant spillover be recognized or assessed? 			
Historical tracing, or case study	 Are good project or program records available? How will confidence and precision requirements be addressed? 			
Common practice baseline methods	 How will self-selection bias tackled? How will nonparticipant spillover be recognized or assessed? 			
Top-down evaluations	 What information will be produced by these top- down models? Are there a large number of cross-sections with 			



Step 4. What is the method for determining NS?				
Method	Question	Responses	Reason or Context for Decision	
	varying levels of EE investment for estimation?3. How does this information compare to what is produced by other methods?			
Market sales data analysis, or cross- sectional studies	 Are applicable comparison area(s) available? Is quality market data available? Are additional methods needed to provide a full view? 			

Step 5. Determine net-to-gross research level of rigor required				
Question	Response			
 Are there regulatory requirements for confidence and precision or other reliability statistics? 				
2. Does the type of research being conducted support sampling-based calculations of confidence and precision?				
3. How important is the program to the portfolio: that is, does the program contribute significantly to portfolio level savings?				
4. Are program impacts large enough to support higher degrees of confidence and precision?				
Decision				
Reasoning				



Step 6. Determine NS research timeframe			
Question	Response		
 Is it possible that cumulative effects from multi-year programming exist? 			
2. Is there baseline data and information, or interactive data and information, available than can inform the research			
3. Have there been changes to the program design, delivery, and/or market that might have affected prior net savings estimates?			
Decision			
Reasoning			

Step 7. Value of Information Assessment				
Impacts to Cost				
of Research	Question	Response		
The reasons for conducting the research	 Is there flexibility in whether or not research is required? Does the research support planning goals and cost effectiveness testing? Will results effect measures and programs offered? Does the research inform performance contracts and incentives? Tracking towards goals? Does it support lost revenue recovery assessments? Does the research inform resource 			
The level and type of research to be conducted	 Does the research inform resource planning? At what level is research neededmeasure, program, portfolio, and/or region? What type of research will provide the desired information? Will the data available to support the type of research desired? 			
The level of rigor for confidence and reliability	 What is the required or desired confidence and precision? Are there other statistical requirements? Will the data available to support the research effort support the required or desired level of rigor? If at measure or program level, what is the importance of the measure or program within the portfolio? Does it contribute significantly to savings in current evaluation or future evaluation planning period? If at measure or program level, will the measure or program continue to be 			



Step 7. Value of Information Assessment				
Impacts to Cost of Research	Question	Response		
	offered or is it scheduled for decommissioning?			
The historical performance of the measure or program	 Where is the program or measure in the expected 'life-cycle' - is the program or measure a new offering, has the program matured, or is it somewhere in-between? Has the program or measure demonstrated high free ridership or is free ridership trending up? 			
Decision				
Reasoning				

The complete guidance document is available at:

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