



# Valuing Non-Energy Impacts

Examples from Rhode Island, and Other Relevant Resources

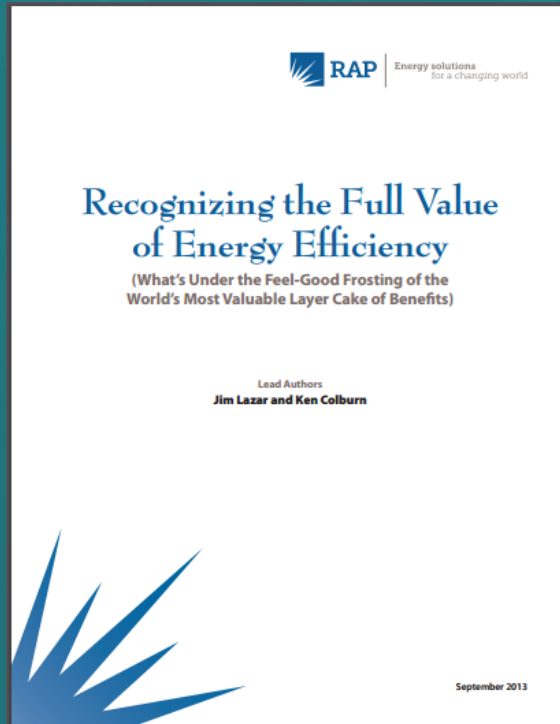
Before the New Hampshire Public Utilities Commission

February 17, 2017

# Valuable Guidance Materials

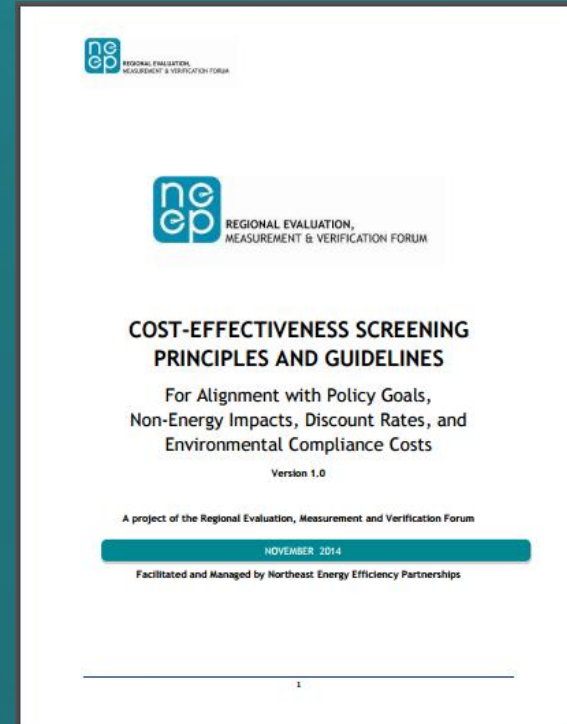


## Overview



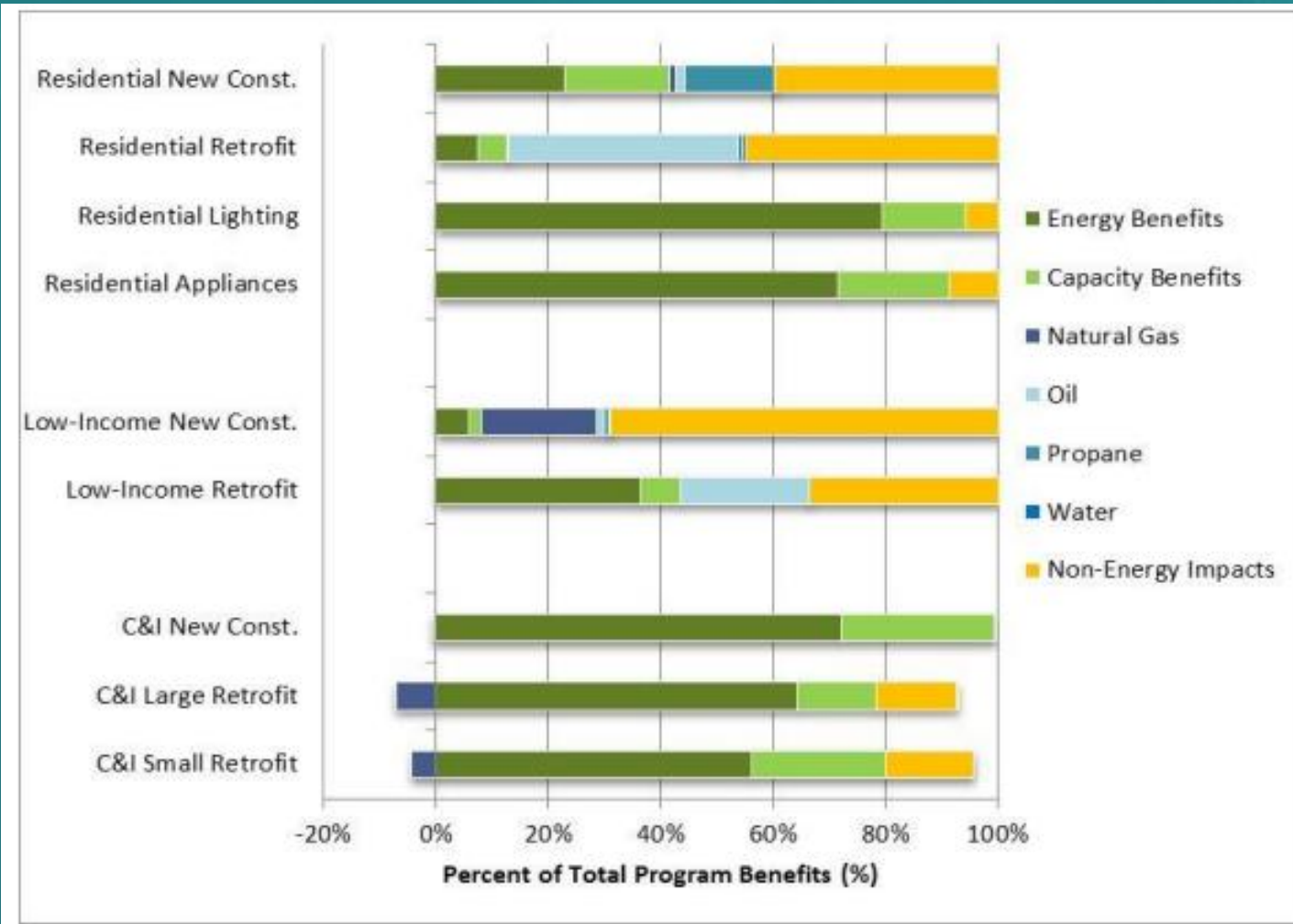
1. Regulatory Assistance Project's  
"Recognizing the Full Value of Energy Efficiency"

## Other States' Approaches w/ specific examples of how to quantify Non-Energy Benefits (NEBS)



2. NEEP EM&V Forum's  
"Cost Effectiveness Principles and Guidelines"<sub>1</sub>

# The Effect of Non-Energy Impacts on Cost Effectiveness Screening



# Valuing Non-Energy Impacts

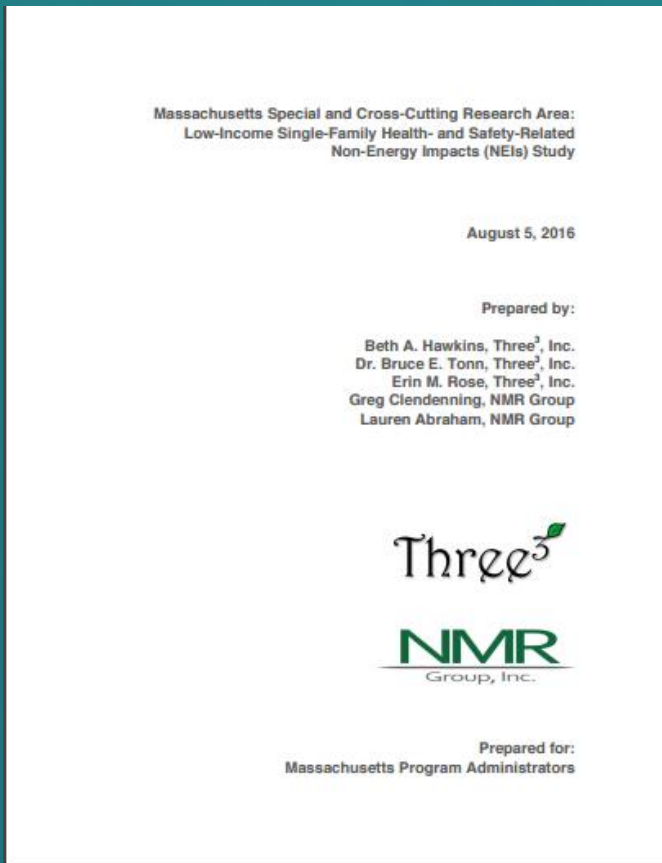
## A Rhode Island Example



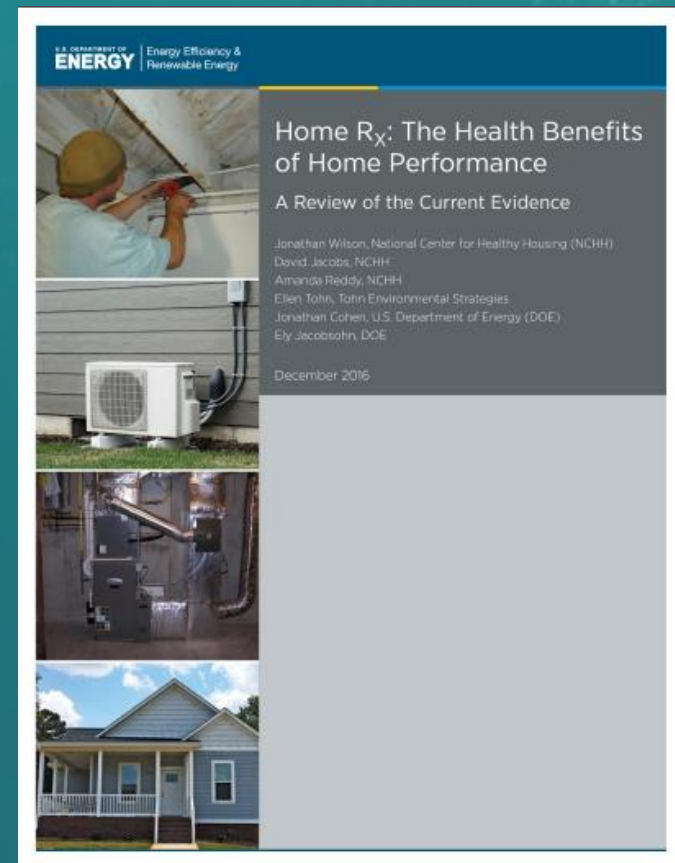
Perspective / NEI Category	Rhode Island Dollar Range		
<b>Utility-Perspective</b>			
Financial and Accounting	\$2.61	-	\$3.74
Customer Service	\$0.34	-	\$8.43
Other Utility Impacts	na	-	na
<b>Participant-Perspective</b>			
Participant's Utility Savings	na	-	na
Low-Income / Economic Development	na	-	na
Improved Operations	\$0.96	-	\$102.40
Comfort	\$1.42	-	\$125
Health & Safety	\$0.13	-	\$45
Education and Contributions	na	-	na
Home Improvements	\$0.32*	-	\$678.52*
Other Participant-Perspective	-\$0.015 per kWh saved		
<b>Societal-Perspective</b>			
Economic Development	\$0.39 per kWh saved*		
Environmental / Emissions	na	-	na
Health Care / Health & Safety	\$0		\$172.53*
Tax Impacts	na	-	na
National Security	1.83 per MMBtu oil saved		
Other Societal-Perspective NEIs	na	-	na

\*Indicates a one-time benefit, not an annual benefit that accrues for the duration of a measure's lifetime. Dollar values are per house hold per year

# Evolving Value of Health and Safety NEIs



MA Program Administrators' Health and Safety NEI Study



US Department of Energy's Home Rx: The Health Benefits of Home Performance

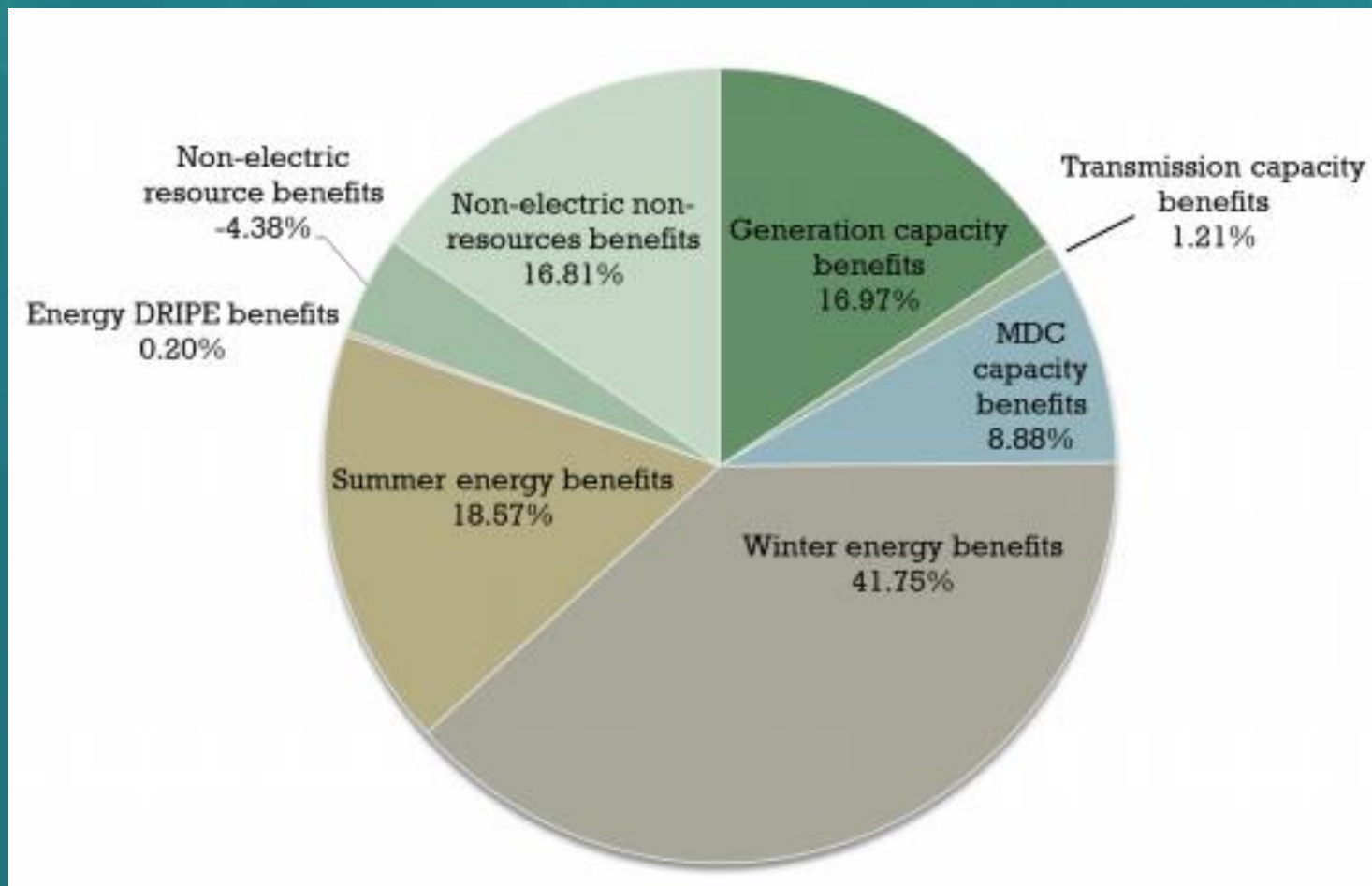
# RI 2017 Energy Efficiency Program 2016/17 Cost-Effectiveness Comparison



<b>Rhode Island Benefit Cost Ratios 2016/2017</b>		
	<b>Income Eligible Electric</b>	<b>Income Eligible Gas</b>
<b>2016</b>	<b>1.10</b>	<b>1.47</b>
<b>2017</b>	<b>3.38</b>	<b>2.38</b>



# RI 2017 Energy Efficiency Program Percent of Monetized Benefits by Type



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