U.S. EPA's Local Climate and Energy Webcast Series
Presents:

Climate Action Planning

We will start in a few minutes. Thank you for joining us.

Climate Action Planning

U.S. EPA Local Climate and Energy Program

Thursday, November 17, 2011

2:00 PM ET – 3:30 PM ET

Webcast Agenda

- EPA introduction
  Dan Wallach and Neelam R. Patel, U.S. EPA Local Climate and Energy Program

- Climate action planning overview and best practices
  Julia Parzen, Urban Sustainability Directors Network

- Case study 1: Kansas City, Missouri
  Dennis Murphey, City of Kansas City, MO

- Case study 2: Central New York State
  Sam Gordon and Chris Carrick, Central New York Regional Planning and Development Board
  U.S. EPA Climate Showcase Community

- Question & Answer Session

- **Next webcast on Wednesday, Dec. 7, 2011:**
  Climate Action Plan Measurement and Evaluation
 To register, go to: https://www2.gotomeeting.com/register/961077066

GoTo Webinar Software Logistics

- You will be muted throughout this webcast to minimize background noise. You'll be able to submit questions and comments in writing.

- PDF and audio files of today's session will be made available for download in a few weeks at:

  ➢ http://www.epa.gov/statelocalclimate/web-podcasts/index.html

- Throughout the webcast, if you have technical difficulties, please contact Lauren Pederson at:
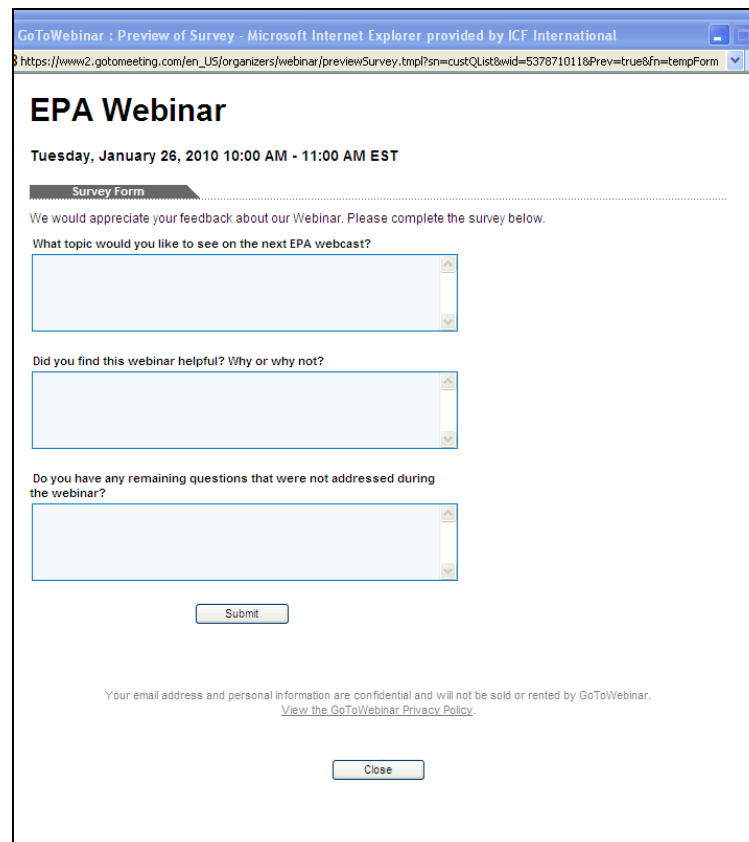
  ➢ lpederson@icfi.com

Questions (GoTo Meeting)

- If you have a question, submit through the question pane.
- We will compile these questions and ask them during the Q&A session.
- Please include the name of the presenter you would like to answer your question.
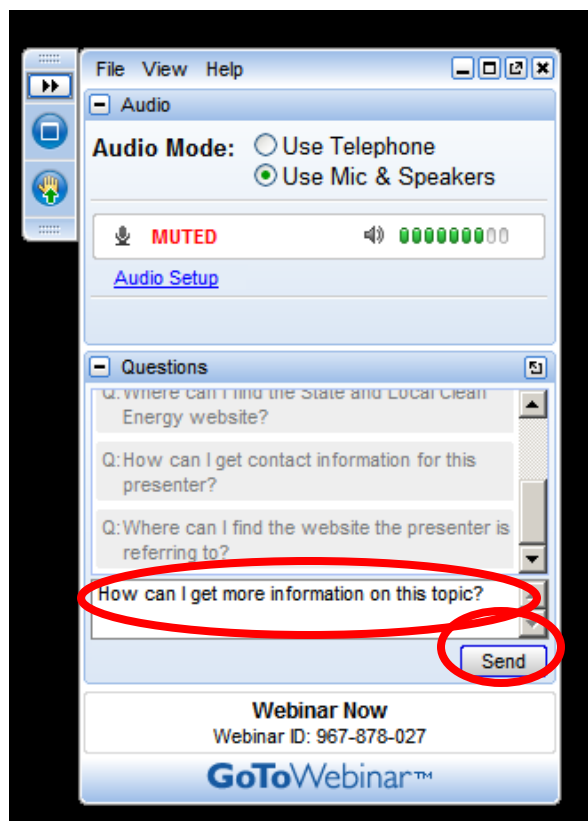
Optional Feedback (GoTo Meeting)

- A pop-up window will appear once you exit GoTo Meeting.
- <u>Please</u> take a few minutes to respond to the optional questions and provide your feedback.

U.S. EPA Local Climate and Energy Program: Goals

Help communities (e.g., tribal governments, regional governments, cities, counties, etc):

- Reduce greenhouse gas emissions while achieving sustainability goals

- Identify and work with expert partners and programs

- Understand, integrate, and maximize multiple benefits in planning and designing programs
  - Air quality improvements
  - Cost savings
  - Energy security and reliability
  - Economic development
  - Public health
  - Quality of life

Local Climate and Energy Programmatic Elements

1. **Climate Showcase Communities (CSC)**

   - 50 pilot communities; $20M
   - Create, support, and showcase replicable models of sustainable community action, www.epa.gov/statelocalclimate/local/showcase

2. **Peer Exchanges**

   - Annual CSC workshop
   - Monthly local climate and energy webcast series collaboration/co-marketing webinars with other EPA programs; www.epa.gov/statelocalclimate/web-podcasts/local-webcasts-by-date.html
   - Conference presentations
   - Newsletters, www.epa.gov/statelocalclimate/listservs

3. **Key Guidance and Tools**

   - Comprehensive Local Climate and Energy Website, www.epa.gov/statelocalclimate
   - *Local Government Climate and Energy Strategy Series,* www.epa.gov/statelocalclimate/resources/strategy-guides.html
   - Linkages to existing internal & external technical support programs

U.S EPA State and Local Climate and Energy Website

Provides governments with:

- ✓ Background on climate change topics

- ✓ Information to develop and implement climate mitigation policies and programs

- ✓ Links to tools, guidance documents, webcasts, podcasts, and other technical assistance resources

- ✓ Examples and case studies

- ✓ Developing a tribal element for the Website

http://www.epa.gov/statelocalclimate

Local Government Climate and Energy Strategy Series

Local Climate and Energy Program

- Series provides a straightforward overview of GHG emissions reduction strategies that local governments can use to achieve economic, environmental, social, and human health benefits

- Each document focuses on one approach to reducing GHG emissions by providing an overview of:

  ➢ Benefits

  ➢ Planning and design

  ➢ Key stakeholders

  ➢ Policy mechanisms

  ➢ Implementation considerations

  ➢ Costs and funding opportunities

  ➢ Programs and resources that offer technical assistance

  ➢ Examples and case studies

Documents in this series include:

Energy Efficiency
- ✓ **K-12 Schools**
- ✓ **Affordable Housing**
- ✓ Local Government Operations
- ✓ Energy-Efficient Product Procurement
- ✓ Combined Heat and Power
- — *Water and Wastewater Facilities*

Transportation
- ✓ **Transportation Control Measures**

Community Planning and Design
- ✓ **Smart Growth**
- — *Urban Heat Island Reduction*

Solid Waste and Materials Management
- — *Resource Conservation and Recovery*

Renewable Energy
- ✓ Green Power Procurement
- ✓ On-Site Renewable Energy Generation
- ✓ Landfill Gas to Energy

✓**Final**   ✓Draft   — *In Development*

www.epa.gov/statelocalclimate/resources/strategy-guides.html

Climate Action Planning

Poll Question: Your experience with climate action planning

What are the benefits of climate action planning?

- Generate stakeholder interest in and support of climate, sustainability, energy actions

- Identify actions that can help save money and protect people's health and environmental quality

- Lays out a well thought out consensus of actions for the community

- Supplies program ideas to local and regional NGOs and other stakeholders

- Offers a plan that can be used to secure funding opportunities

Where can I find examples of what other local governments have done?

- **Over 25 examples of completed local government plans are available at:**

  http://www.epa.gov/statelocalclimate/local/local-examples/action-plans.html

- **Climate Showcase Communities working on climate action plans:**

  - **The Small Cities Climate Action Partnership** –El Cerrito, California

  - **Building Local Capacity For Clean Energy And Climate Change Initiatives**–Warwick, Rhode Island

  - **Central New York Climate Change Innovation Program** –Central New York

What are the steps of the climate action planning process?

Collaborate with stakeholders

↕

Understand GHG emissions profile

↕

Set goals

↕

Identify, analyze and select options

↕

Design program, implementation, and funding strategy

↕

Implement program

↕

Measure, track, and evaluate progress

Please Note:
- Ideal comprehensive process

- Local priorities determine how these steps are followed

- Consider program design, funding and measurement at the beginning of the planning process

When in the planning process should I consider multiple benefits?

Collaborate with stakeholders

$\updownarrow$

Understand GHG emissions profile

$\updownarrow$

Set goals

$\updownarrow$

Identify, analyze and select options

$\updownarrow$

Design program, implementation, and funding strategy

$\updownarrow$

Implement program

$\updownarrow$

Measure, track and evaluate progress

- Analyze multiple benefits
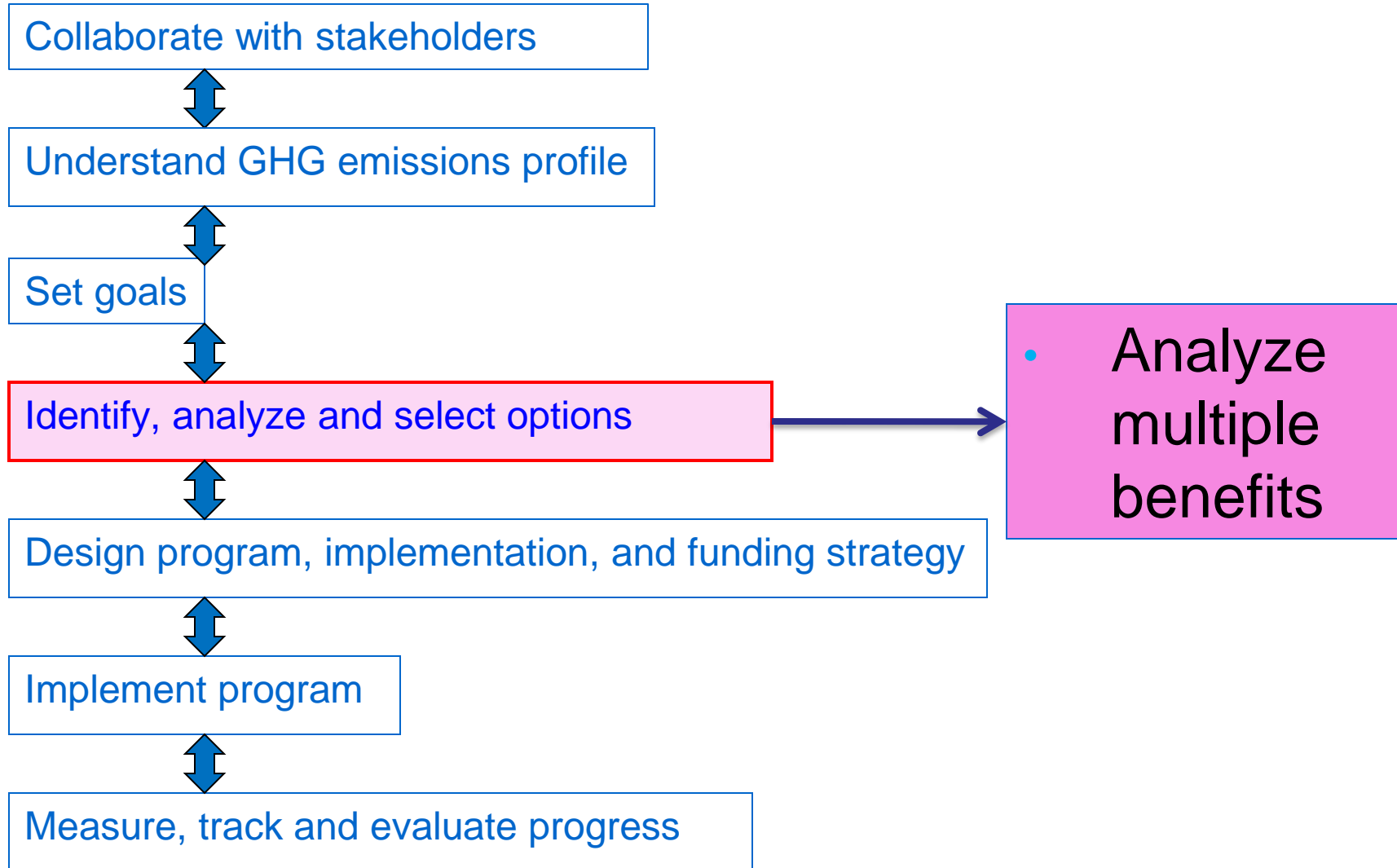
What benefits can I capture?

Local Climate and Energy Program

Multiple Benefits

Greenhouse Gas Reductions	Environmental Benefits	Public Health Benefits	Economic Benefits	Energy Benefits	Societal Benefits
	•Air Quality •Water Quality •Waste	• Avoided mortality, morbidity • AQ • Heat	•Energy savings •Jobs created • Income		•EJ •Quality of Life •Behavior Change

Examples of Resources for Analyzing Multiple Benefits

•ICLEI tools •CAPCOA Resource: Quantifying Greenhouse Gas Mitigation Measures •Waste Reduction Model (WARM)	•Motor Vehicle Emission Simulator 2010 (MOVES 2010) •Emissions & Generation Resource Integrated Database (eGRID)	•Co-benefits Risk Assessment (COBRA) Screening Model	•Assessing Multiple Benefits of Clean Energy	•Energy Star Portfolio Manager for Buildings •DOE ARRA Energy Calculator	•Community-based Social Marketing

Back to the Big Picture

Collaborate with stakeholders

⇕

Understand GHG emissions profile

⇕

Set goals

⇕

Identify, analyze and select options

⇕

Design program, implementation and finding strategy

⇕

Implement program

⇕

Measure, track, and evaluate progress
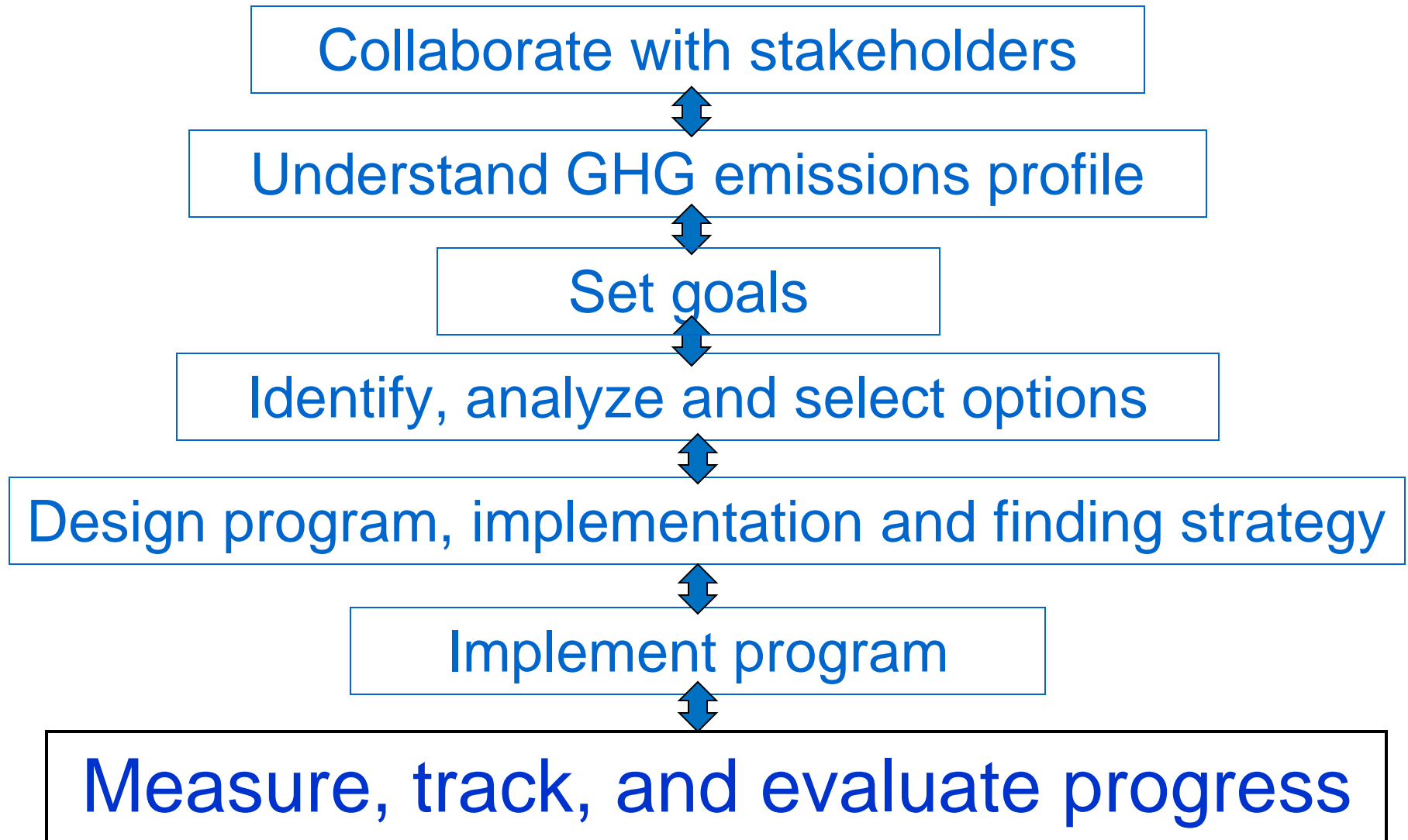
Local Climate and Energy Program

Next webcast (part 2 of 2):

Climate Action Plan Measurement and Evaluation

U.S. EPA Local Climate and Energy Program

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Mitigation Planning vs. Adaptation Planning

- Adaptation planning focuses on identifying climate impacts and conducting vulnerability and risk assessments

- Mitigation and adaptation measures can be the same, e.g., heat island reduction

  - Important to note: Adaptation strategies should not increase emissions, e.g., delsalination

- Webcast resources for adaptation planning, http://www.epa.gov/statelocalclimate/web-podcasts/local-webcasts-by-date.html

  - Part One: Climate Impacts and Risk Communication (November 2010)

  - Part Two: Adaptation Planning and Implementation (December 2010)

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APPENDIX:
Sample Resources Supporting Analysis of Multiple Benefits

APPENDIX – Analysis of Multiple Benefits
Links to Sample Resources

- **Greenhouse Gas Savings**
  - Waste Reduction Model (WARM), http://www.epa.gov/climatechange/wycd/waste/calculators/Warm_home.html
  - *ICLEI Tools, http://www.icleiusa.org/climate_and_energy/climate_mitigation_guidance
  - *California Air Pollution Control Officers Association Resources, http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf

- **Environmental Benefits**
  - Motor Vehicle Emission Simulator 2010 (MOVES 2010), http://www.epa.gov/otaq/models/moves/index.htm
  - Emissions & Generation Resource Integrated Database (eGRID), http://www.epa.gov/cleanenergy/energy-resources/egrid/index.html

- **Public Health Benefits**
  - Co-benefits Risk Assessment (COBRA) Screening Model, http://www.epa.gov/slclimat/resources/cobra.html

- **Economic Benefits**
  - Assessing Multiple Benefits of Clean Energy, http://www.epa.gov/statelocalclimate/resources/benefits.html

- **Energy Benefits**
  - Energy Star Portfolio Manager for Buildings, http://www.energystar.gov/index.cfm?c=evaluate_performance.bus_portfoliomanager
  - DOE ARRA Energy Calculator, http://www1.eere.energy.gov/wip/guidance.html

- **Societal Benefits**
  - * BOOK: Fostering Sustainable Behavior: An Introduction to Community-Based Social Marketing. Doug McKenzie-Mohr and William Smith, 1999, New Society Publishers

Resources marked with "" are not EPA resources therefore may be available for a fee