

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.





Local Climate and Energy Program

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>

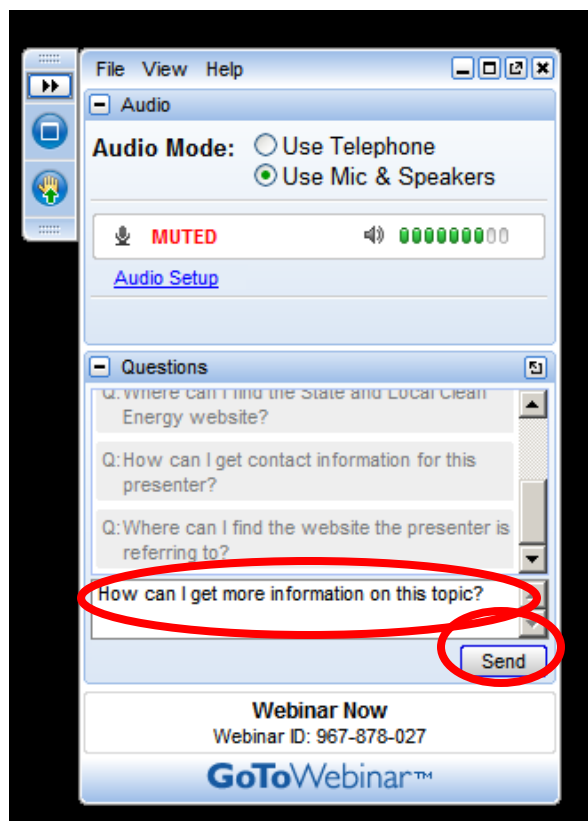
GoTo Webinar Software Logistics



- 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

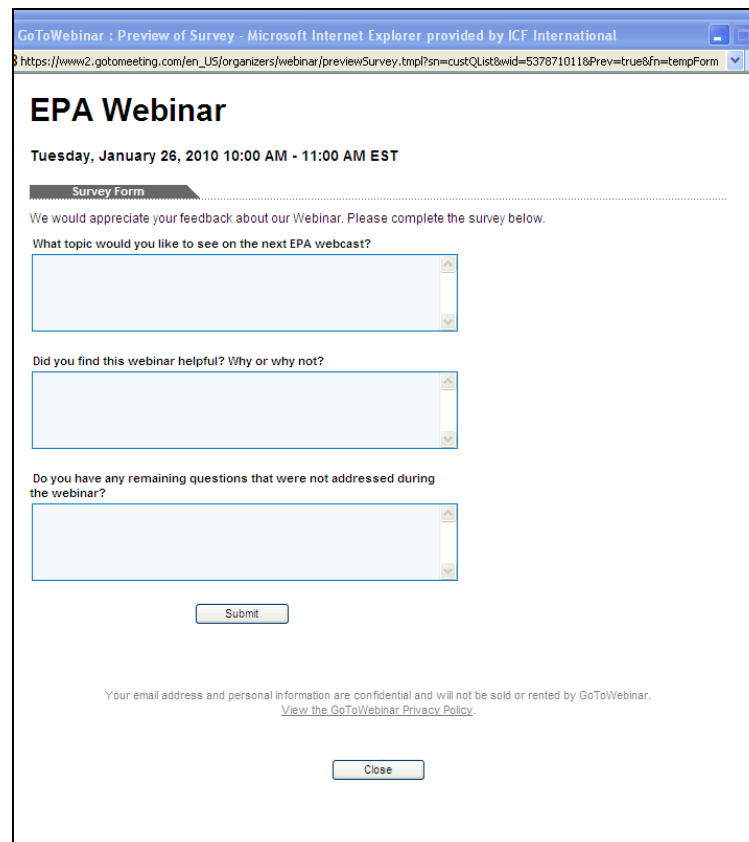
Questions (GoTo Meeting)

- 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.
- Please take a few minutes to respond to the optional questions and provide your feedback.



The screenshot shows a web browser window titled "GoToWebinar : Preview of Survey - Microsoft Internet Explorer provided by ICF International". The address bar shows the URL: "https://www2.gotomeeting.com/en_US/organizers/webinar/previewSurvey.tmpl?sn=custQList&wid=537871011&Prev=true&fn=tempForm". The main content area is titled "EPA Webinar" and "Tuesday, January 26, 2010 10:00 AM - 11:00 AM EST". Below this is a "Survey Form" section with the text: "We would appreciate your feedback about our Webinar. Please complete the survey below." The survey contains three questions, each with a text input field and a scroll bar: "What topic would you like to see on the next EPA webcast?", "Did you find this webinar helpful? Why or why not?", and "Do you have any remaining questions that were not addressed during the webinar?". At the bottom of the form is a "Submit" button. Below the form, there is a privacy notice: "Your email address and personal information are confidential and will not be sold or rented by GoToWebinar. [View the GoToWebinar Privacy Policy.](#)" and a "Close" button.

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

State and Local Climate and Energy Program

Contact Us Share

What's New

- May 4 - Updated Energy CO2 Emissions by State now available
- April 21 - Files available: The Emissions & Generation Resource Integrated Database (eGRID)
- April 18 - Registration now open for Tech Forum on The Electric System and the Benefits of Clean Energy
- April 14 - EPA awards nearly \$9 million to new Climate Showcase Communities
- April 6 - Registration now open for Local Climate and Energy Webcast on Climate Showcase Communities
- March 2 - Files available: Clean Energy & Transmission Planning in the Eastern Interconnection

Quick Finder

State	Local
<ul style="list-style-type: none">• Getting Started• Technical Forum• Partner Network• Bioenergy Primer• Clean Energy Jobs	<ul style="list-style-type: none">• Getting Started• Webcasts• Resources• Clean Energy Jobs• Climate Showcase Communities• Program
<ul style="list-style-type: none">• GHG Inventories• GHG Reporting• Lead by Example Guide• State & Regional Climate• Policy Tracking• Resources	<ul style="list-style-type: none">• GHG Inventories• Local Strategy Guides• Energy Efficiency in Municipal Operations• Community Types

EPA's State and Local Climate and Energy Program provides technical assistance, analytical tools, and outreach support to state, local, and tribal governments. Specific assistance includes:

- Identifying and documenting cost-effective policies and initiatives that address climate change, including those that promote renewable energy, energy efficiency, and related clean technologies.
- Measuring and evaluating the environmental, economic, and public health benefits of climate change and clean energy initiatives.
- Offering tools, guidance, and outreach support for assessing the options and benefits of actions to reduce greenhouse gas emissions.
- Fostering peer exchange opportunities for state and local officials to share information on best practices and lessons learned about innovative policies and programs.

State Climate and Energy Program

The State Climate and Energy Program helps states develop policies and programs that can reduce greenhouse gas emissions, lower energy costs, improve air quality and public health, and help achieve economic development goals. EPA provides states with and advises them on proven, cost-effective best practices, peer exchange opportunities, and analytical tools.

State Examples

Case studies, GHG inventories, Climate action plans

Local Climate and Energy Program

Local Examples

Case studies, GHG inventories, Climate action

State Podcast

- March 31, 2011
The Emissions & Generation Resource Integrated Database (eGRID)

Local Podcast

- March 31, 2011
The Emissions & Generation Resource Integrated Database (eGRID)

EPA State Technical Forum

The next Technical Forum has not been scheduled yet. Files from past forums are available.

<http://www.epa.gov/statelocalclimate>

Local Government Climate and Energy Strategy Series



- 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*



Local Climate and Energy Program

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

A screenshot of the EPA website's "State and Local Climate and Energy Program" page. The page has a blue header with the EPA logo and navigation links. A left sidebar contains a menu with items like "State and Local Home", "Basic Information", "Local Climate and Energy Program", and "Getting Started". The main content area is titled "Climate Change Action Plans" and includes a breadcrumb trail, a list of state abbreviations, and sections for "Arizona" (Pima County) and "Alaska" (Homer).

EPA United States Environmental Protection Agency
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State and Local Climate and Energy Program

You are here: EPA Home » State and Local Climate and Energy Program » Local Climate » Climate Change Action Plans

Climate Change Action Plans

A climate change action plan lays out a strategy, including specific policy recommendations, that a local government will use to address climate change and reduce its greenhouse gas (GHG) emissions. Examples of climate change action plans developed by local governments are listed below according to their states.

AZ, AK, CA, CO, CT, FL, GA, IL, LA, MD, MA, MN, MO, NH, NM, NY, NC, OR, PA, SC, TN, TX, UT, WA, All States

Arizona

Pima County

County Population: 1,012,018

The "Sustainable Action Plan for County Operations," published in August 2008, recommends specific actions for integrating the goals of sustainability into the way Pima County government operates.

- <http://www.pima.gov/sustainable/aug08actionplan-1.pdf> (PDF) [EXIT Disclaimer](#)
(89 pp, 2.12M, About PDF)

↑Top of page

Alaska

Homer

City Population: 5,802

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

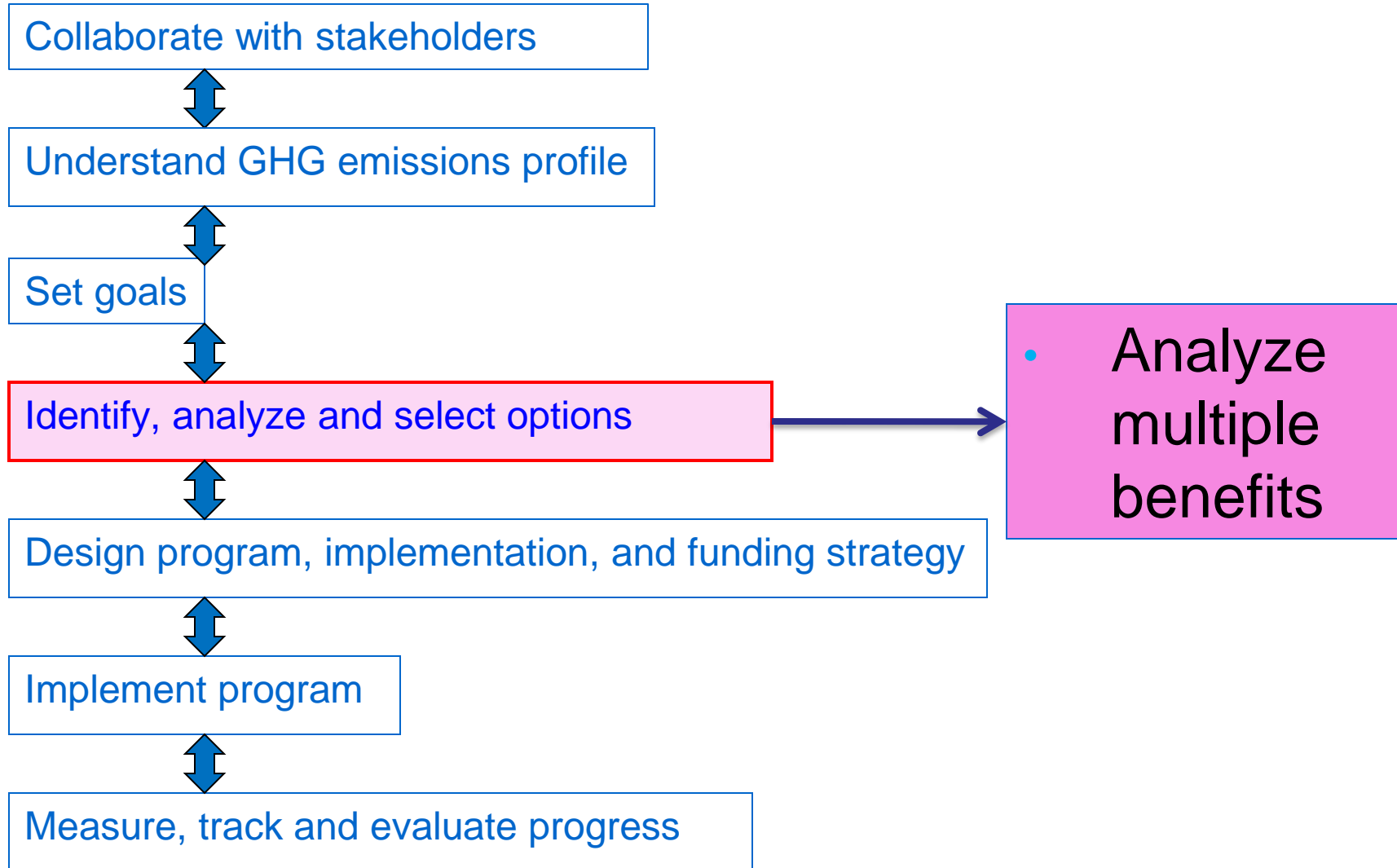


Measure, track, and evaluate progress

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?



What benefits can I capture?



Multiple Benefits

Greenhouse Gas Reductions

Environmental Benefits

- Air Quality
- Water Quality
- Waste

Public Health Benefits

- Avoided mortality, morbidity
- AQ
- Heat

Economic Benefits

- Energy savings
- Jobs created
- Income

Energy Benefits

Societal Benefits

- 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)

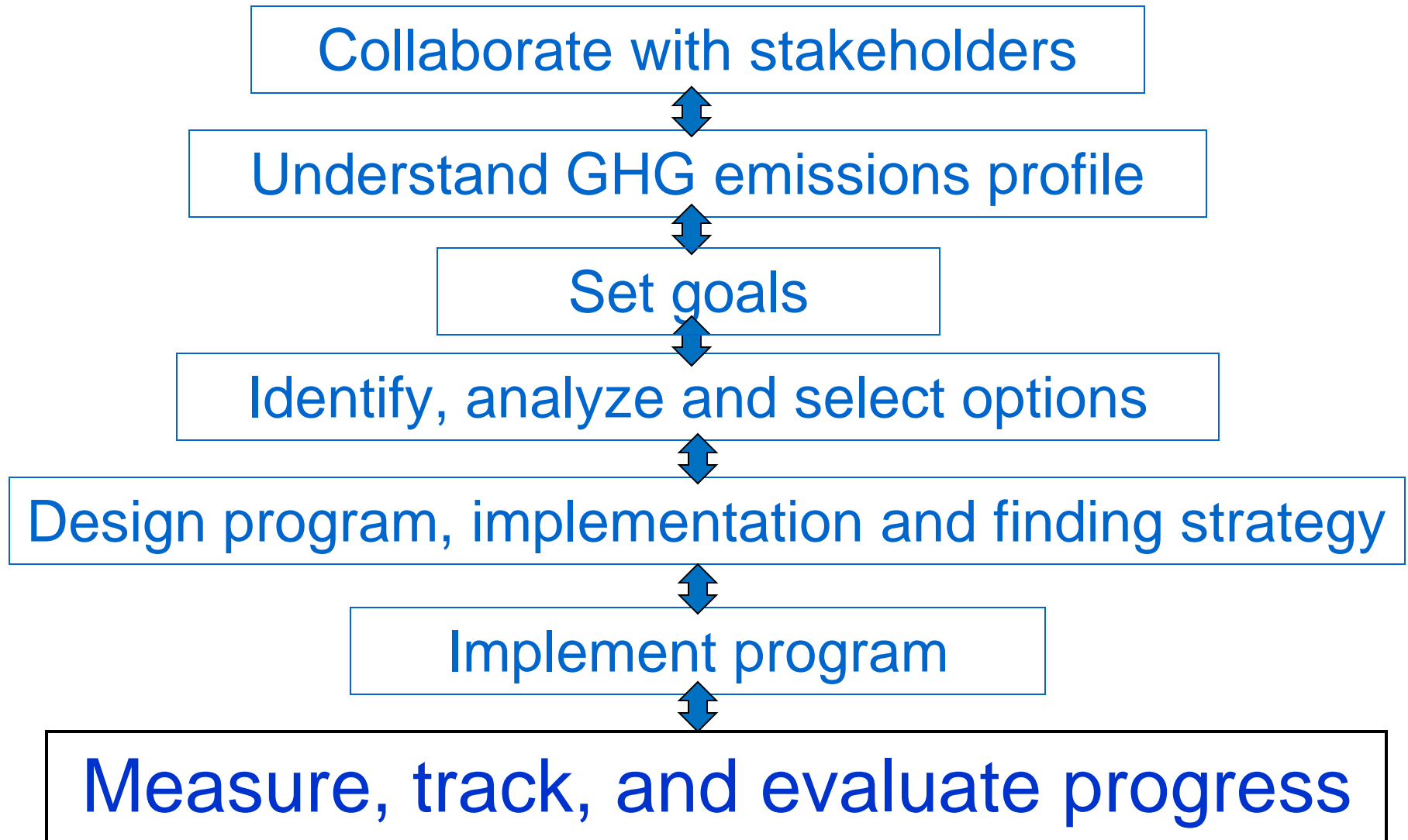
- Co-benefits Risk Assessment (COBRA) Screening Model

- 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





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., desalination
- 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