EPA Climate Pollution Reduction Grants

SLC Metropolitan Statistical Area Jurisdictional Partners Meeting
October 18, 2023
1) 10 mins – Welcome and Introductions

2) 25 mins – CPRG Overview, Purpose, and Timing + SLC CPRG Plan

3) 75 mins – Input and Interactive Sessions
   - 10 mins - State of Utah and SLC Metro Plans
   - 45 mins - Priority GHG Reduction Measures
   - 20 mins - Community Engagement Process

4) 10 mins – Next Steps

EPA Climate Pollution Reduction Grants – Oct 18, 2023
Overview of EPA CPRG Program

Climate Pollution Reduction Grants
EPA CPRG: Key Deliverables

**Priority Climate Action Plan** ("PCAP")
Due March 1, 2024

**Comprehensive Climate Action Plan** ("CCAP")
Due August 4, 2025
Two years from grant award date

**Status Report**
Due August 4, 2027
Four years from grant award date

EPA Climate Pollution Reduction Grants – Oct 18, 2023
Priority Climate Action Plan

- GHG Inventory
- Quantified GHG Measures
- Required Elements
- Authority to Implement
- Benefits Analysis (LIDAC*)

- Due March 1, 2024
- Identifies near-term action items to prepare for implementation grants
- Can focus on specific sector(s) or sources
- Limited set of requirements that set foundations for informed decisions
- May build on previous climate planning efforts

* Low-income and disadvantaged community
Comprehensive Climate Action Plan

- Leveraging Federal Funds
- GHG Inventory
- GHG Targets
- Authority to Implement
- Workforce Analysis
- GHG Projections
- Quantified GHG Measures
- Benefits Analysis (Full + LIDAC*)

- Due 2 years from the date of award for states and metro areas (summer 2025) and at close of grant for tribes and territories
- Covers GHG reduction measures across all significant sources/sinks and sectors
- Establishes near-term and long-term GHG emission reduction targets
- Adds additional required analyses to support robust implementation
SLC Metro Area Process

Vision, Needs, and Opportunities
“PCAP” Key Elements

GHG
Inventory
GHG Inventory: All Sectors

- Agriculture
- Commercial and Residential Buildings
- Electricity Generation and/or Use
- Industry
- Natural and Working Lands
- Transportation
- Waste and Materials Management

EPA Climate Pollution Reduction Grants – Oct 18, 2023
GHG Inventory: Priority Sectors

- Agriculture
- Commercial and Residential Buildings
- Electricity Generation and/or Use
- Industry
- Natural and Working Lands
- Transportation
- Waste and Materials Management

EPA Climate Pollution Reduction Grants – Oct 18, 2023
“PCAP” Key Elements

GHG Inventory

Reduction Measures
What is a “Priority Measure”?

✓ Near-Term
✓ High Priority
✓ Implementation-Ready
✓ Authority to Implement or Pathway
Priority Measure: SLC MSA Parameters

- Addresses Priority Sector
- Community-Level Impact
- Considers Equity Implications and Benefits
- Substantial GHG Emissions Reduction (e.g., transformative)
- Scalable and Durable Solution (e.g., cost-effectiveness)
- Clear Authority to Implement

*DRAFT Concepts – Subject to Change*
“PCAP” Key Elements

GHG Inventory

LIDAC* Benefits Analysis

Reduction Measures

* LIDAC = Low-Income and Disadvantaged Communities
Low-Income Disadvantaged Community Benefits Analysis

- Community Engagement
- Pollution Reduction
- Reduced Energy Cost Burden
- Workforce Opportunities

EPA Climate Pollution Reduction Grants – Oct 18, 2023
Climate and Economic Justice Screening Tool

Source: Climate and Economic Justice Screening Tool
Meaningful involvement means:

- People have an opportunity to participate in decisions about activities that may affect their environment and/or health
- The public's contribution can influence the regulatory agency's decision
- Community concerns will be considered in the decision-making process
- Decision makers will seek out and facilitate the involvement of those potentially affected
"PCAP" Key Elements

GHG Inventory

Reduction Measures

LIDAC* Benefits Analysis

Authority to Implement

*LIDAC = Low-Income and Dis advantaged Communities*
Authority to Implement

“...identify for each measure whether the relevant state or local governments already have existing statutory or regulatory authority to implement the measure, or whether such authority still must be obtained.”
EPA CPRG: Key Deliverables

Priority Climate Action Plan ("PCAP")
Due March 1, 2024

Comprehensive Climate Action Plan ("CCAP")
Due Summer 2025
Two years from grant award date

Status Report
Due Summer 2027
Four years from grant award date

EPA Climate Pollution Reduction Grants – Oct 18, 2023
<table>
<thead>
<tr>
<th>Plan Element</th>
<th>Priority Climate Action Plan</th>
<th>Comprehensive Climate Action Plan</th>
<th>Status Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHG Inventory</td>
<td>Required</td>
<td>Required</td>
<td>Update Encouraged</td>
</tr>
<tr>
<td>GHG Emissions Projections</td>
<td>Not Required</td>
<td>Required</td>
<td>Update Encouraged</td>
</tr>
<tr>
<td>GHG Reduction Targets</td>
<td>Not Required</td>
<td>Required</td>
<td>Not Required</td>
</tr>
<tr>
<td>Quantified GHG Reduction Measures</td>
<td>Required (priority measures only)</td>
<td>Required (comprehensive)</td>
<td>Status and Updates Required</td>
</tr>
<tr>
<td>Benefits Analysis</td>
<td>Encouraged</td>
<td>Required</td>
<td>Required</td>
</tr>
<tr>
<td>Low Income/ Disadvantaged Communities Benefits Analysis</td>
<td>Required</td>
<td>Required</td>
<td>Required</td>
</tr>
<tr>
<td>Review of Authority to Implement</td>
<td>Required</td>
<td>Required</td>
<td>Update Required</td>
</tr>
<tr>
<td>Intersection with Other Funding Availability</td>
<td>Encouraged</td>
<td>Required</td>
<td>Required</td>
</tr>
<tr>
<td>Workforce Planning Analysis</td>
<td>Encouraged</td>
<td>Required</td>
<td>Required</td>
</tr>
<tr>
<td>Next Steps/Future Budget and Staffing Needs</td>
<td>Not Required</td>
<td>Not Required</td>
<td>Required</td>
</tr>
</tbody>
</table>

Input and Interactive Sessions

Inform the SLC Metro Plan
SLC Metro Area vs. Utah Statewide

CPRG Plan Development
Beehive Emission Reduction Plan
Homework Assignment #1:

Share your ideas for priority GHG emission reduction measures.

Consider:

- Level of reduction (tons reduced)
- Cost-effectiveness ($/ton reduced)
- Transformative potential
- Use CO2 equivalent (CO2e) to account for differences in global warming potential (GWP)
- Emissions reduction estimates should be netted of any associated increases in emissions
- Near-term emissions reductions are more valuable than later-term emissions reductions, other things being equal
Utah DAQ - Funding & Partnerships

Homework Assignment #2

Share your interest in funding opportunities and partnerships.

- Are you already applying or considering applying for federal funding?
- Are you interested in coordinating/partnering with UDAQ on funding and measures?

Example agencies

- Office of Energy Development/Dept. of Natural Resources
- Department of Transportation
- Department of Workforce Services
- Department of Agriculture and Food
- Metropolitan Planning Organizations
- Local health departments
- Municipal Government
- Tribes
- Academia

Slide excerpted from Aug 24, 2023 UDAQ CPRG Meeting
Priority Solutions

GHG Reduction Measures
GHG Inventory: Priority Sectors

- Agriculture
- Commercial and Residential Buildings
- Electricity Generation and/or Use
- Industry
- Natural and Working Lands
- Transportation
- Waste and Materials Management

EPA Climate Pollution Reduction Grants – Oct 18, 2023
Solutions Discussion

Electricity
- Utility
- Distributed

Transportation
- Transit
- Personal EVs
- Electric Fleets
- Active Transport

Buildings
- Electric Appliances
- Home Efficiency
- Commercial Strategies
Example GHG Reduction Measures: Electric Power

- Targeted incentives for installation of renewable energy and energy storage systems on commercial and residential buildings, such as net metering, tax credits, rebates, and streamlined interconnection standards.

- Development of distributed or community-scale renewable energy generation, microgrids, or vehicle-to-grid infrastructure in disadvantaged communities, including remote and rural regions.

- Programs to support smart-grid and/or behind-the-meter technologies to reduce power losses, reduce peak demand, and enable consumer participation in distributed generation.

- More ideas included in the NOFO...

Excerpted from EPA Notice of Funding Opportunity (NOFO)
Electricity

- What are you already doing that could use more support?
- What are your new project-ready ideas?
- What else would you be doing if money, time, and partners were no object?

- Utility-scale renewable energy projects
- Adjusting zoning to allow solar field(s)

- Small-scale wind turbines for businesses
- Ensuring renewable generation for new buildings
- Solar grants for moderate income (currently less incentives focus)
- Pairing solar and EV charging

- Infrastructure to improve resiliency
- Pairing policy w/incentives – creating optionality
Example GHG Reduction Measures: Transportation

- Increase **electric** light-, medium-, and heavy-duty vehicles, and/or expand **EV charging** infrastructure
- New or expanded **transportation infrastructure** projects to facilitate public transit, micro-mobility, car sharing, bicycle, and pedestrian modes
- Update **building and zoning codes** to encourage walkable, bikeable, and transit-oriented development
- Policies to support **transportation management incentive programs** to reduce vehicle trips or travel and expand transit use, such as van-pool programs, ridesharing, transit fare subsidies, and bicycle facilities
- More ideas included in the NOFO...

*Excerpted from EPA Notice of Funding Opportunity (NOFO)*
Transportation

• What are you already doing that could use more support?
• What are your new project-ready ideas?
• What else would you be doing if money, time, and partners were no object?

Transit

- Improved and quicker long-distance commuter bus routes
- Double-tracking of FrontRunner (UTA); electrification is longer-term

Personal EVs

- Public EV charging (govt sites, etc.)
- EV charging-ready codes and zoning, plus incentives

Electric Fleets

- Govt and business fleet electrification – support for related infrastructure
- SLC and West Jordan studying fleet electrification

Active Transport

- Tooele City has a new active transportation plan (county has plan too)
- Other existing plans for active transportation (need to define what is ready to implement)
- Millcreek is adding bike routes, but could use funding

Other

- Local jobs to decrease commuting
- Roundabouts
Example GHG Reduction Measures: Buildings

- Incentive programs for implementation of energy efficiency measures in existing government-owned, commercial, and residential buildings.
- Programs and policies to promote electrification of government-owned, commercial, and residential buildings, including EV charging.
- Implementation of a new benchmarking and building performance standards.
- Adoption and implementation of the most up-to-date building energy codes or stretch codes for new commercial and residential buildings.
- More ideas included in the NOFO...
Buildings

- What are you already doing that could use more support?
- What are your new project-ready ideas?
- What else would you be doing if money, time, and partners were no object?

**Electric Appliances**
- All-electric, high-efficiency municipal facilities
- Effective electric cooking, including restaurants
- All-electric new construction: homes and residential
- Home electrification retrofits
- Electric panel upgrades

**Home Efficiency**
- Home efficiency retrofits
- Partnerships with housing authorities and programs, including staff support

**Commercial Strategies**
- Older buildings and historic preservation/efficiency focus (incentives and support)
- SLC benchmarking program
- Energy utility program support (e.g., wattsmart business)

**Other**
- Water-saving measures
Public Engagement and Input

Ideas and Opportunities
PLAN DEVELOPMENT: How would you like to be involved in the development of a climate plan for the Salt Lake City MSA? (mark all that apply)

- Requesting and supplying data to inform the emissions inventory: 4 (44.4%)
- Developing and studying a list of priority pollution reduction measures: 6 (66.7%)
- Engaging with stakeholders and members of the public in your community: 7 (77.8%)
- Engaging with low-income and disadvantaged communities: 1 (11.1%)
- I do not wish to be involved: 1 (11.1%)

EPA Climate Pollution Reduction Grants: SLC MSA Local Governments Survey
Meaningful involvement means:

- People have an opportunity to **participate in decisions** about activities that may affect their environment and/or health
- The public's contribution can **influence the regulatory agency's** decision
- **Community concerns** will be considered in the decision-making process
- Decision makers will seek out and facilitate the **involvement of those potentially affected**
Example Engagement: SLC MSA PCAP

- Jurisdictional Partners and Stakeholders
- Online Information and Survey
- Environmental Justice Committee
- Public Workshops and Info Sessions
Closing Comments and Questions

Next Steps
2023-24 SLC MSA CPRG Timeline and Deliverables
EPA Climate Pollution Reduction Grants

SLC Metropolitan Statistical Area Jurisdictional Partners Meeting
October 18, 2023