Louisiana Priority Action Plan Preview
Climate Initiatives Task Force

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Agenda

- Climate Pollution Reduction Grant Overview
- Priority Climate Action Plan Development
- Priority Actions Preview
- Next Steps
EPA Climate Pollution Reduction Grant
Climate Pollution Reduction Grant (CPRG) Overview

EPA’s Climate Pollution Reduction Grant (CPRG) provides grant funding to states, local governments, tribes, and territories to **develop and implement** plans for reducing greenhouse gas emissions and other harmful air pollution.

### 2-Stage Grant Program:

**Non-competitive planning grants**
- State = $3 million
- Greater Baton Rouge = $1 million
- Greater New Orleans = $1 million
- PCAP to be completed January 2023
- CCAP to be completed July 2025

**Competitive implementation grants**
- $4.6 billion available
- General grant awards = $2M-$500M
- Tribal grant awards = $1M-$25M
- Grants must be based on measures included in a state or MSA PCAP
CPRG Program Priorities

- Reduce GHG and harmful air pollution
- Empower community-driven solutions in overburdened communities
- Create good jobs
- Address environmental injustice
- Lower energy costs
Implementation Grants

❖ Applicants for implementation grant funding will be required to submit a PCAP with their application that describes the programs, policies, measures, and projects the entity will carry out with the implementation grant funding.

❖ Eligible entities:
  ➢ State, municipality, air pollution control agency, tribes, or **group of one or more of these entities**
  ➢ Open to entities that did not directly receive a planning grant but that apply for funds to implement measures included in an applicable PCAP.
Priority Climate Action Plan
Community-driven solutions that support the creation of good jobs and address environmental injustice in overburdened neighborhoods

Near-term, high-priority, Implementation-ready measures that reduce GHG and harmful air pollution
PCAP Development Timeline

August 2023
- State team convened public meetings and interviews with local government officials to identify community-driven solutions to climate pollution; and convened subject matter expert focus groups to identify near-term, high-priority, implementation-ready actions.

September-October 2023
- Climate Initiatives Task Force public workshop refined LCAP actions based on EPA criteria resulting in list of Focus Areas

November 2023
- State team presents draft priority actions to the CITF and releases Draft PCAP for public comment

January 2024
- State publishes and submits to EPA final PCAP
Climate Initiatives Task Force
“All Hands” Workshop
Building on the Louisiana Climate Action Plan
CITF Workshop Outputs

PRIORITIES FOR ACTION

- Community Solar
- Offshore Wind
- Community Resilience Hubs
- Transmission Planning
- Industrial Decarbonization
- Methane Emissions
- Fleet Transition
- Ports
- Regional Transit
- Built Environment Retrofits
- Urban and Community Forestry
- Sustainable Agriculture
- Coastal Protection and Restoration
Coordination, Outreach, & Engagement
State Agency Coordination
Local, Regional, and Tribal Government Interviews

- Local and regional governments
- Federally-recognized tribes
- CPRG MSA Planning Grant Recipient
Stakeholder and Subject Matter Expert Input
Virtual Focus Groups

OBSTACLES/CHALLENGES
What are near-term challenges to implementation?

FIRST STEPS
What are implementation-ready, near-term actions that could jump start implementation?

EQUITY
How can the State ensure that communities most burdened by pollution and economic inequality are prioritized for the benefits?

SCALE UP & SUSTAIN
How can we scale-up and sustain these efforts over the long-term?
Community Meetings
CHALLENGES

What are the greatest near-term challenges for you and your community?

FIRST STEPS

What types of climate-related activities would you like to see in your community in the next 5-10 years?

CONCERNS

What are your greatest concerns related to climate change and clean energy?

EQUITY

How can the State ensure that communities most burdened by pollution and economic inequality are prioritized for the benefits?
Which community benefit is the highest priority for you?

River Parishes:
- Air Quality & Public Health Improvements: 31%
- Energy Cost Savings: 18%
- Jobs & Workforce Development: 23%
- Increased Climate Resilience: 11%

Southwest:
- Air Quality & Public Health Improvements: 38%
- Energy Cost Savings: 14%
- Jobs & Workforce Development: 22%
- Increased Climate Resilience: 12%

Northwest:
- Air Quality & Public Health Improvements: 38%
- Energy Cost Savings: 13%
- Jobs & Workforce Development: 13%
- Increased Climate Resilience: 23%

Improved Access to Services & Amenities included in the respective segments.
Community Solar

- Improve the metering rate for community solar billing
- Develop loan products to simplify financing
- Incentivize community solar projects that provide at least 20% electricity bill savings for low-income households
- Establish a Community Solar Working Group to address regulatory, bureaucratic, and procedural obstacles
- Leverage schools as anchor and host sites
- Coordinate outreach through trusted local entities to support residential customer subscriptions

Support development of 500 MW of community solar statewide by 2030, with 255 MW for City of New Orleans electric customers.
Support a State Waters Technology Hub that includes an “in-water” and onshore test center

Identify points of grid interconnection for clusters of offshore wind in state and federal waters

Develop Offshore Wind Manufacturing Cluster

Conduct a skills gap analysis to identify workforce training needs

Support engagement with affected communities

Build local capacity and provide technical support

Support 5 GW of offshore wind power by 2035
Community Resilience Hubs

- Deploy carbon-free microgrids serving community resilience hubs and critical facilities by 2031
- Facilitate community-driven planning to pilot new models for community-centric energy resilience projects
- Deploy mobile battery storage units
- Unlock compensation for energy storage as a grid resource
- Incorporate energy resiliency standards into future building codes for community gathering places
- Secure long-term federal loan for virtual power points

Deploy 385 carbon-free microgrids serving Community Resilience Hubs and critical facilities

Incorporate 40 MW of distributed solar and 251 MWh of energy storage
Transmission Planning

❖ Develop comprehensive plan to integrate advanced conductors on existing and new transmission routes
❖ Develop Offshore Wind Transmission Plan
❖ Facilitate regional resource strategic planning
❖ Support essential transmission projects with technical assistance on siting, permitting, and other integration challenges

Increase new transmission capacity by 30% by 2035
Industrial Decarbonization

- Enhance process efficiency through pilot and demonstration projects
- Incentivize the electrification of low- and medium-heat process equipment
- Increase industrial access to renewable and clean, high-capacity, firm power electricity

Enhance energy efficiency in chemical and refining facilities by an average of 10% by 2030

Electrify 15% of all low and medium heat processes, with a goal of 100% of all new and replacement boilers and process heaters being electric by 2040

Increase on-site renewable and clean electricity generation, including energy storage and grid integration, to 20% of industrial facilities by 2030
Industrial Decarbonization

- Switch 25% of all hydrogen to clean hydrogen used in ammonia and refining production by 2030
- Transition 5 MTPA of steam methane reformers to low- or no-carbon hydrogen
- Reduce demand for cement, iron and steel, and water and waste by 30% through material efficiency, advanced recycling, and other circularity initiatives

- Switch to low- or no-carbon fuels and low- or no-carbon feedstocks
- Improve product circularity and advanced recycling between producers and across the supply chain
Industrial Decarbonization

- Implement carbon management projects in coordination with affected communities
- Capitalize on opportunities for regional decarbonization, especially at co-located facilities
- Reduce N$_2$O emissions as well as other GHGs, criteria, and hazardous co-pollutants

By 2030, apply carbon capture, utilization, and storage at as close as possible to 90% capture rate at a majority of natural gas processing facilities, petroleum refineries, and ammonia and chemical manufacturing plants.

Reduce 6,331 tons of N$_2$O emissions annually from fertilizer production facilities through N$_2$O abatement strategies.
Methane Emissions

- Launch methane detection and monitoring program
- Expand orphan & active well leak detection and repair
- Launch pipeline leak detection and repair effort
- Support landfill capture and utilization projects
- Support the development of 12 landfill methane recovery projects for recovered methane procurement
- Pursue anaerobic digester demonstration project
- Identify and address the top 20% of leaking/emitting wells (900 wells)
Fleet Transition

- Lead by example through state procurement
- Develop purchase incentives for light-, medium-, and heavy-duty public fleet procurement
- Plan for and deploy publicly-accessible shared charging infrastructure for medium- and heavy-duty fleet vehicles
- Deploy fleet conversion pilot projects and case study materials
- Develop a statewide evacuation and disaster strategy to ensure the resiliency of evacuation operations in the shift to electrified vehicles
- Create data repository to bolster statewide electric vehicle planning needs

- Support electrification of 20,000 (25%) public fleet vehicles by 2030
- Support electrification or fuel-switching of 119,250 (5%) medium- and heavy-duty vehicles in the state by 2030
- Deploy 1,200 fast and ultrafast charging stations or alternative fueling stations designed for on-route charging or fueling of medium- and heavy-duty vehicles
Fleet Transition

- Build capacity for maintenance, repair, & supporting infrastructure workforce
- Conduct a needs analysis and support education on electric vehicle ancillary services
- Support local government and business education, training, and planning
- Expand markets for biofuels for harder-to-electrify vehicle types
- Reduce idling, particularly near sensitive populations

Support electrification of 20,000 (25%) public fleet vehicles by 2030

Support electrification or fuel-switching of 119,250 (5%) medium- and heavy-duty vehicles in the state by 2030

Deploy 1,200 fast and ultrafast charging stations or alternative fueling stations designed for on-route charging or fueling of medium- and heavy-duty vehicles
- Deploy shore power capacity across Louisiana ports
- Contract and install for on-site renewable power sources
- Deploy Resilient Alternative Fuel Transport Stations (RAFTS) near truck idling and staging areas
- Build hydrogen fueling barge capacity
- Support decarbonization planning to coordinate tenant investments and shared objectives
- Pilot a shared floating crane to encourage mode shifting
- Create electric forklift incentives
- Identify locations for the deployment of natural vegetation buffer zones

- Convert 100 berths at Louisiana ports to shore power by 2030
- Electrify 15% of port forklifts by 2030
- Displace 15% of Louisiana port marine diesel with hydrogen fueling by 2035
- Mode-shift 270,000 tons of material from truck and rail transport to barge
Double use of alternative modes of transportation by 2035

Increase access to clean transportation options, including public transit, for low-income and disadvantaged communities by 10% each year by 2030

Regional Transit

❖ Procure electric and alternative fuels public transit
❖ Pursue traffic improvements that reduce idling and travel time
❖ Increase regional connectivity through dedicated bus lanes, HOV lanes, and expanded Bus Rapid Transit
❖ Expand shared-use paths to encourage mode-shifting and reduce vehicular congestion
❖ Build support facilities and preventative maintenance capacity supportive of existing and projected electric or alternative fuels buses and vans
❖ Develop Regional Transportation Resilience Plans that cover physical and operational vulnerabilities
Built Environment Retrofits

- Prioritize energy efficiency upgrades that also improve energy and climate resilience
- Develop early education around end of life replacement and consider mid-stream rebates for contractors
- Provide health & safety funding for repairs and upgrades necessary prior to making energy upgrades and retrofits
- Develop a direct marketing effort around opportunities for low-income and energy-burdened households
- Develop pilot projects and case studies around the use of low-carbon and highly-efficient building materials
- Incentivize audits and deep retrofit evaluations for multi-family buildings, commercial buildings, and industrial facilities
- Simplify local permitting

Scale up to 1% annual retrofits by 2030, 2% annual retrofits by 2035, and 5% annual retrofits by 2040.

Install 815,000 additional space and water heat pumps by 2030.
Built Environment Retrofits

- Develop a statewide one-stop shop for state, federal, and local incentives, grants, and loans to encourage resource braiding
- Create a network Building Retrofit Learning Hubs with trusted advisors, local contractors, audits and assessments, and new incentive programs
- Create an independent, third-party, statewide energy efficiency implementer
- Support workforce development for builders, contractors and subcontractors, architects, and other design and construction professionals
- Launch an Energy Efficiency and Retrofits Program for nonprofits that serve LIDAC communities

Scale up to 1% annual retrofits by 2030, 2% annual retrofits by 2035, and 5% annual retrofits by 2040

Install 815,000 additional space and water heat pumps by 2030
Urban and Community Forestry

- Fund Urban Tree Canopy Assessments to establish tree inventories and improve understanding of climate change mitigation potential from urban forestry
- Support native and climate-resilient tree planting through tree planting efforts on public property and education and access to resources for planting on private property

Increase urban canopy coverage by 10% in low-income and disadvantaged communities in urban areas by 2030
Sustainable Agriculture

- Coordinate and incentivize transportation for waste streams between industry and agriculture
- Stand up a framework for converting bio materials to biochar for agricultural application and utilizing the excess renewable heat byproduct to power industrial processes
- Support local food systems, community gardens, and small-scale urban agriculture

Reduce the need for prescribed burning on 66% of sugarcane acreage by 2030
Coastal Protection and Restoration

- Collect data on net GHG impacts of coastal wetlands loss, conservation, and restoration
- Assess feasibility of electric or alternative fuels dredge

By 2030, replace conventional diesel with renewable diesel or electricity for 10% of Coastal Master Plan project construction
State team presents draft priority actions to the CITF and releases Draft PCAP for public comment

November 2023

January 2024

State publishes and submits to EPA final PCAP

April 2024

Implementation grants due

2025

Comprehensive Climate Action Plan and Status Report

Next Steps
Thank you