



Louisiana Priority Action Plan Preview

Climate Initiatives Task Force

November 9, 2023

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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**

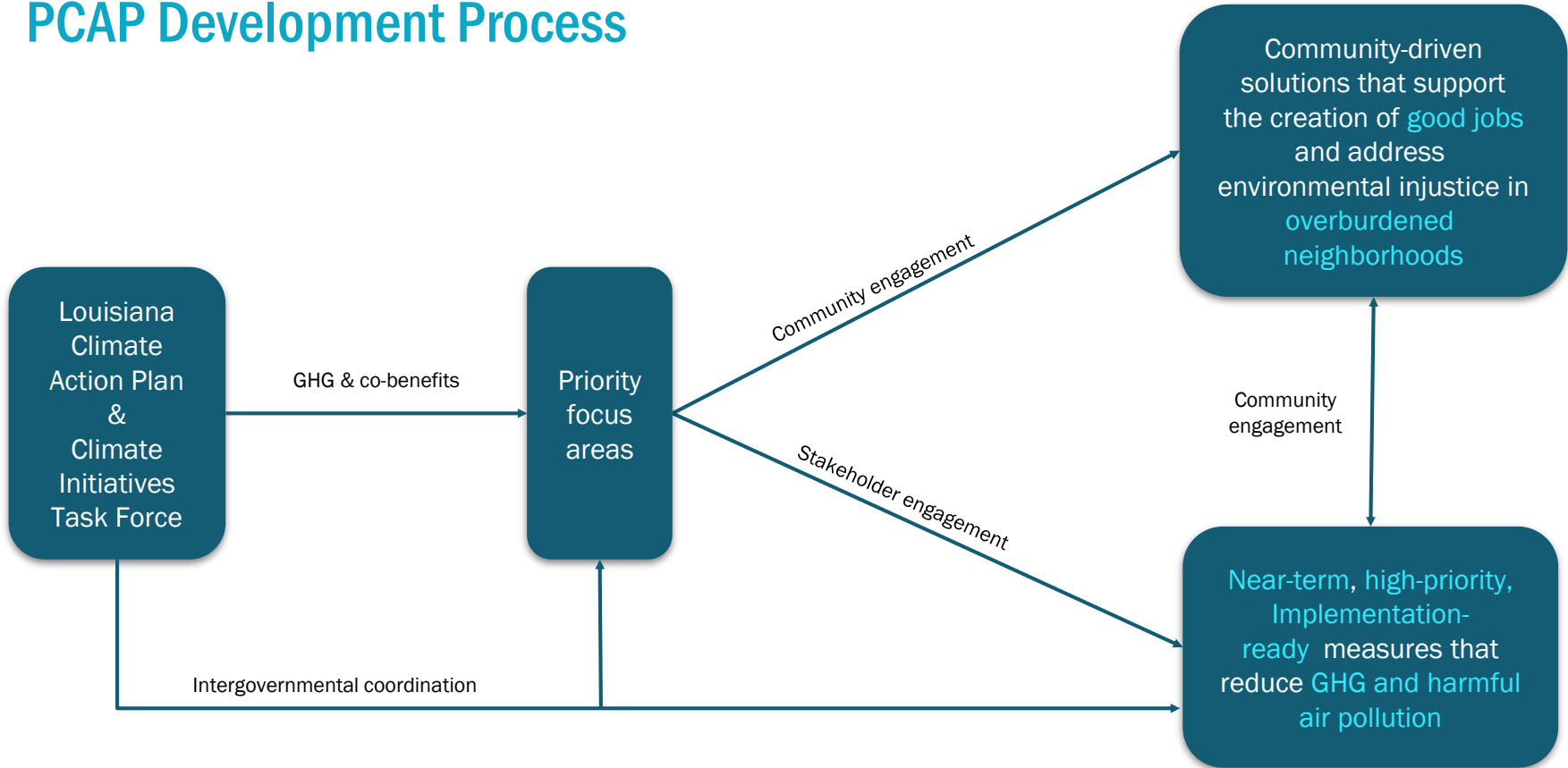
Implementation Grants

- ❖ 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



PCAP Development Process



PCAP Development Timeline

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

August 2023

September-October 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.

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

Climate Initiatives Task Force

“All Hands” Workshop



Building on the Louisiana Climate Action Plan

Instructions

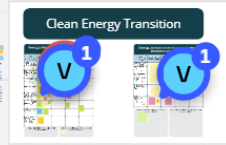
Instructions for users...

- Use your mouse to click when on the "V" button located in the bottom right corner of the screen to zoom in and out of the board.
- Use the right mouse button to scroll the board up and down the slide.
- Press board
- Using your mouse click on a dot on the slide to drag it.
- Double click on the slide to zoom in and out.
- Additional only notes can be reviewed using the tool bar on the left side of the screen. The sticky note button is located from the top.

Instructions for priorities...

1. Search for a priority. If there is no priority, you can create a new priority.
2. Search for a priority. If there is no priority, you can create a new priority.
3. Press on any dot for each section for more information. If you have any questions or need more information, please contact the Louisiana Climate Action Plan team at climate@la.gov.
4. To learn more about the climate action plan, visit www.louisianacclimate.gov.
5. Double click on the slide to zoom in and out.
6. Additional only notes can be reviewed using the tool bar on the left side of the screen. The sticky note button is located from the top.

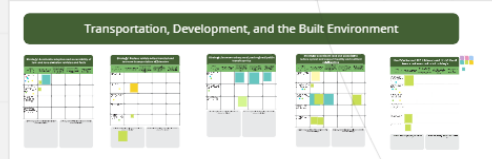
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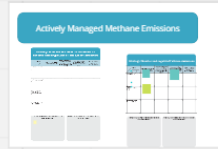
Section: Industrial Decarbonization



Section: Transportation, Development, and th...



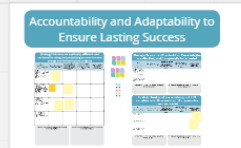
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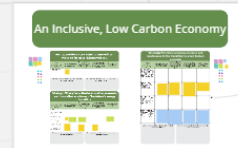
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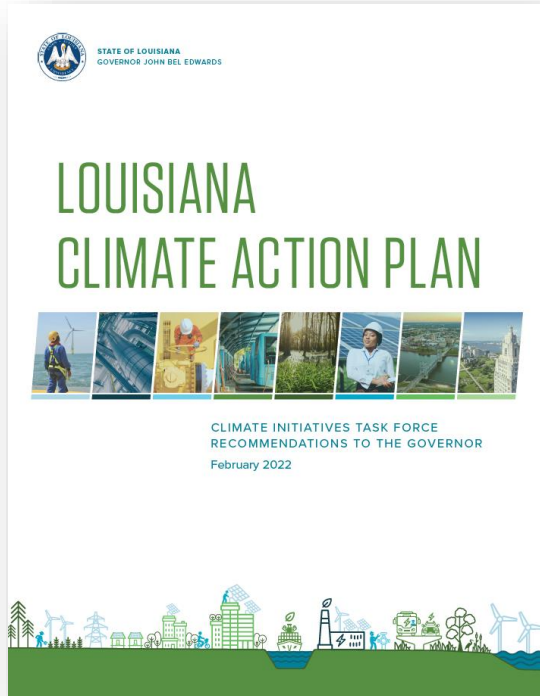
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CITF Workshop Outputs



PRIORITY FOCUS AREAS

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






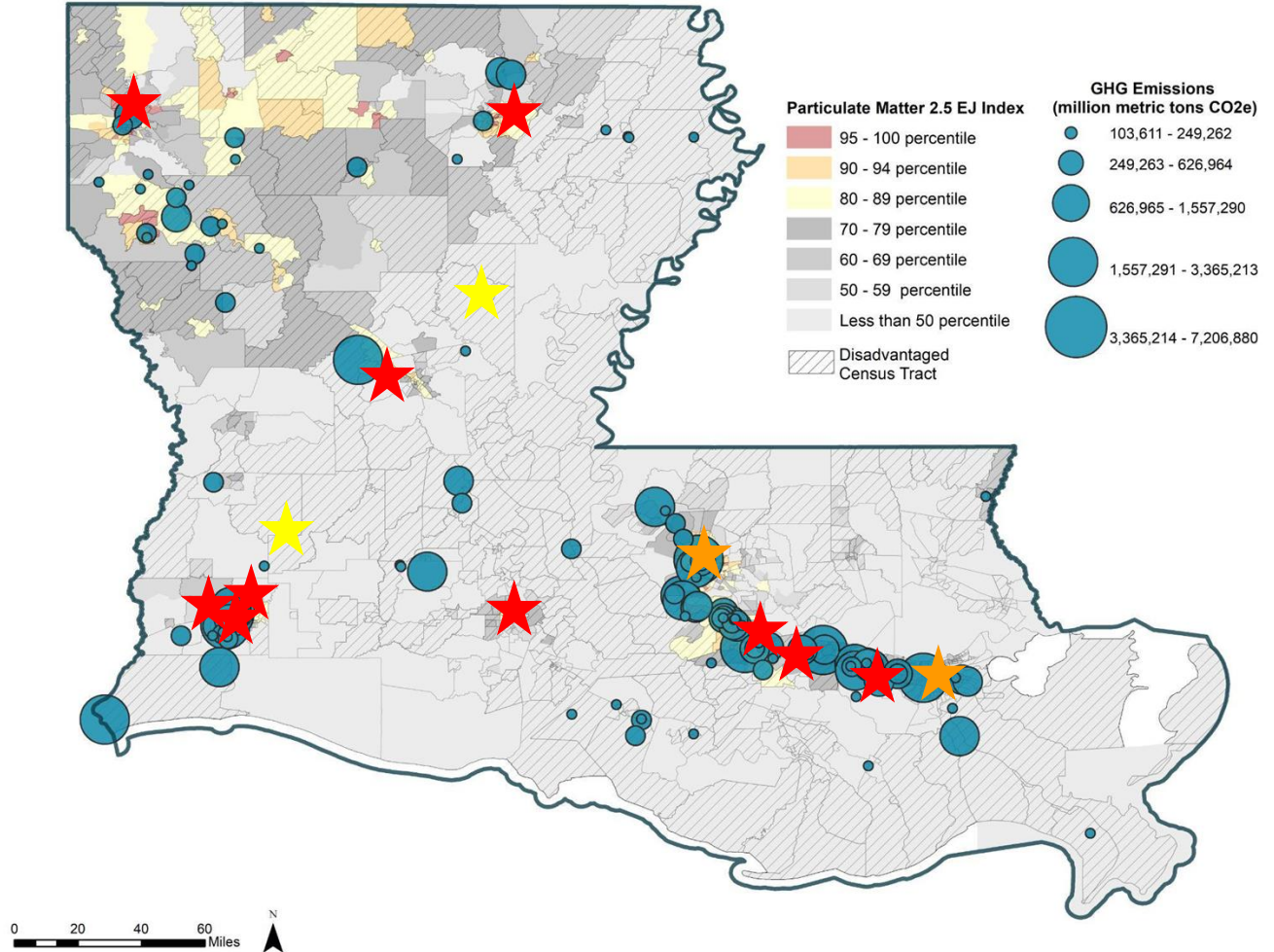
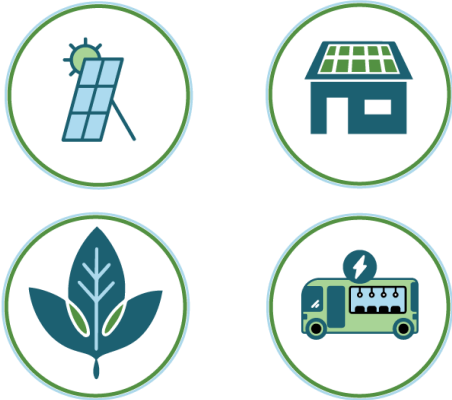
LOUISIANA
DIVISION OF ADMINISTRATION



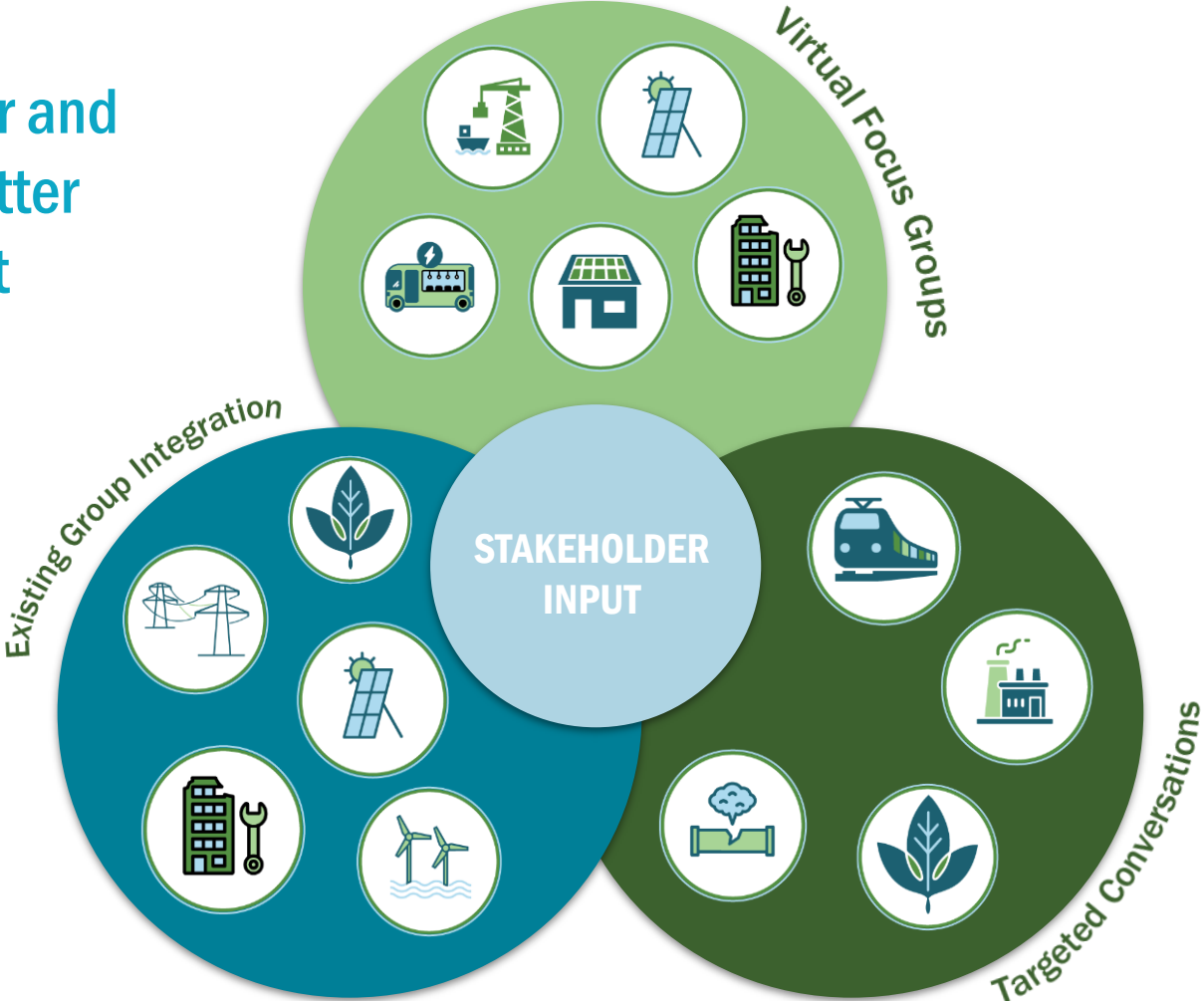
Louisiana
Public Service Commission

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?

FOCUS HERE



NOT HERE



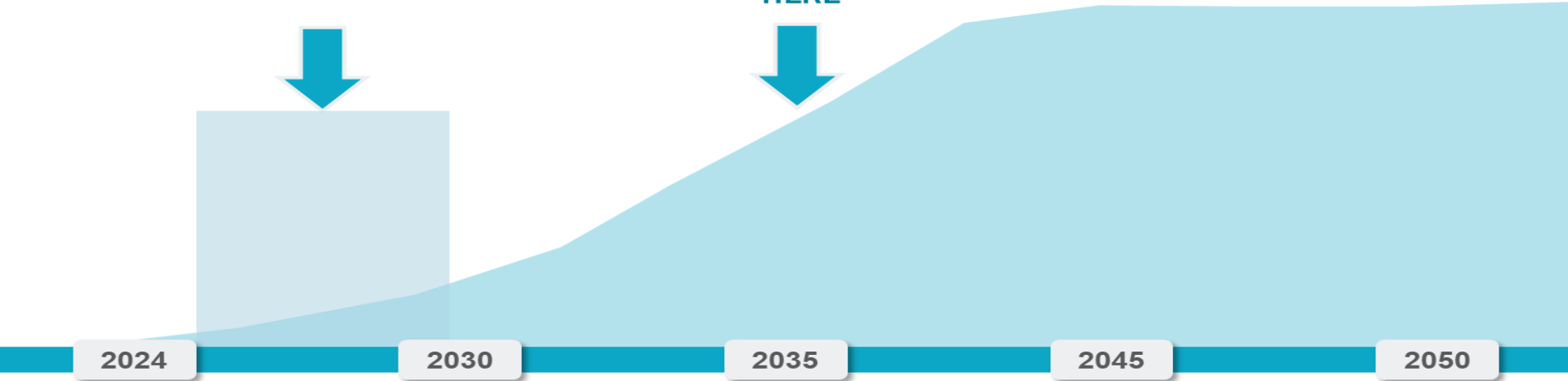
2024

2030

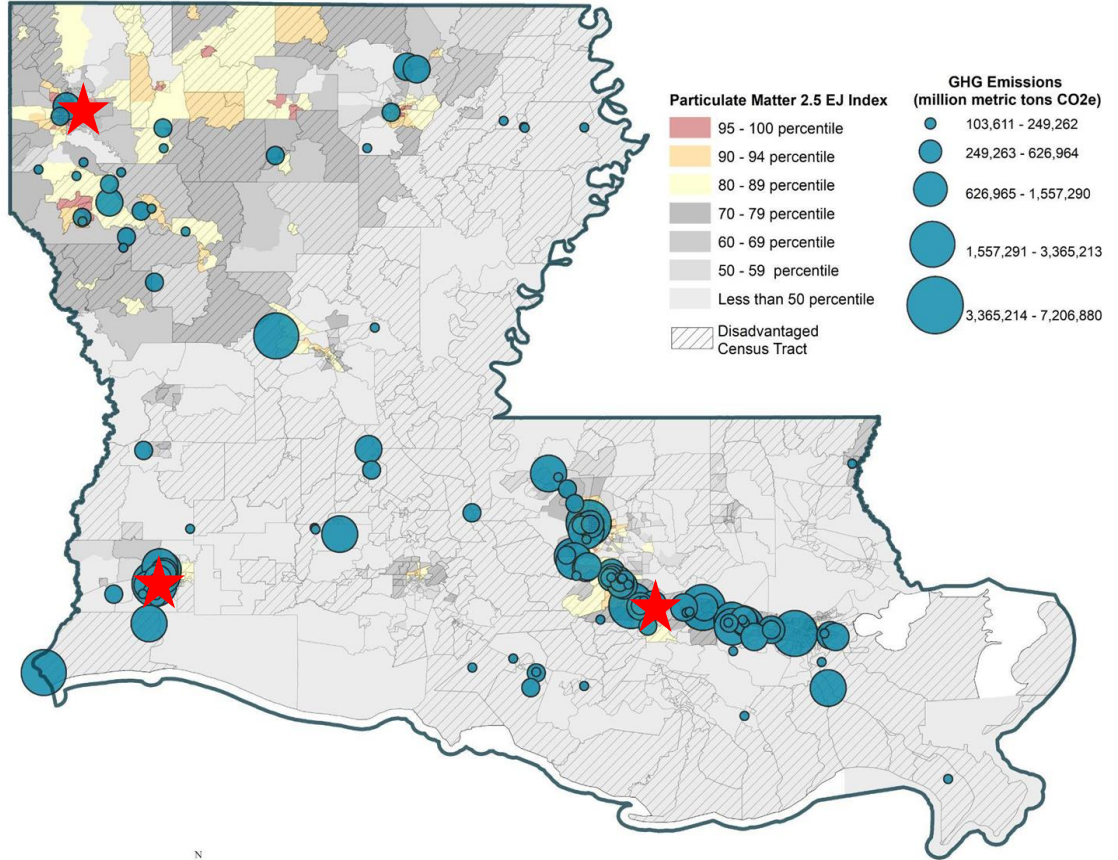
2035

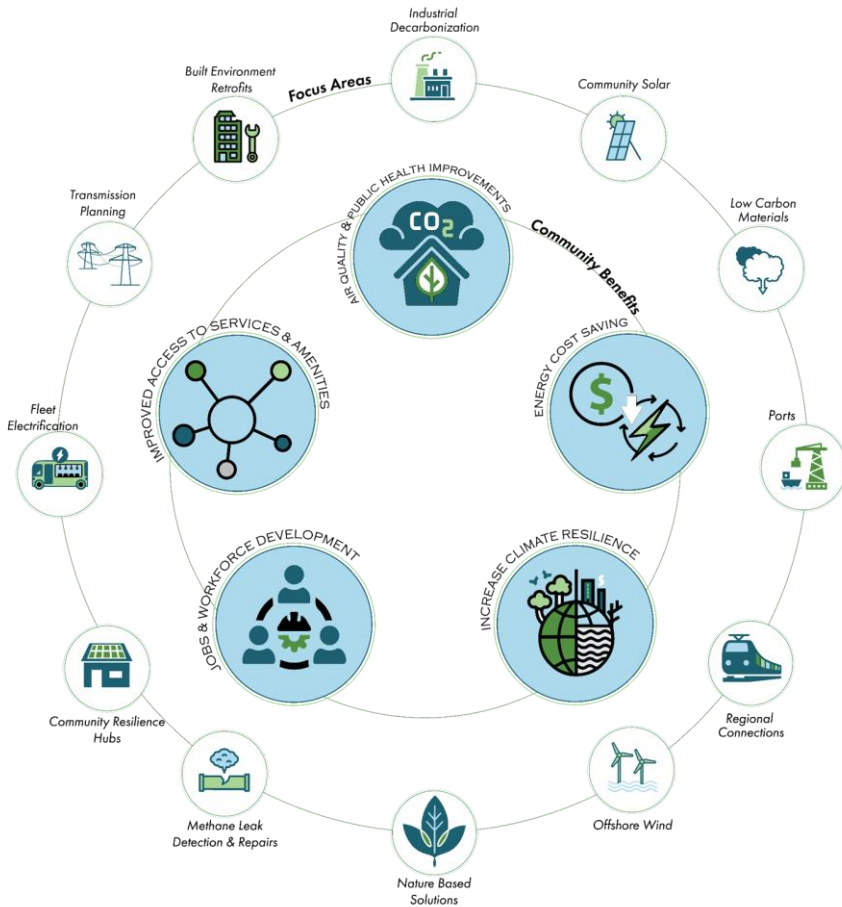
2045

2050



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

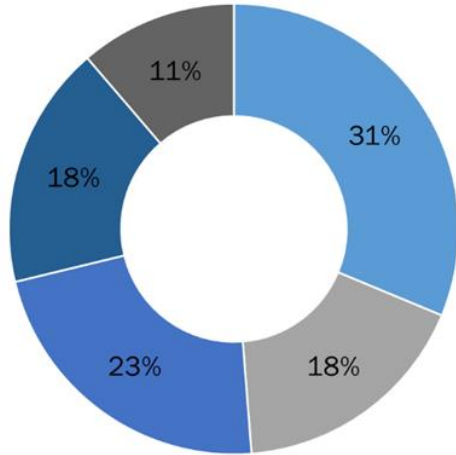
What are your greatest concerns related to climate change and clean energy?

EQUITY

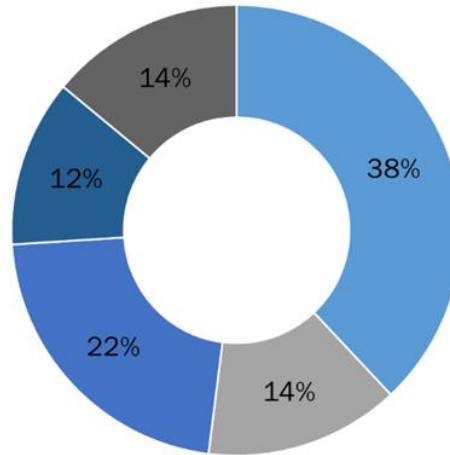
How can the State ensure that communities most burdened by pollution and economic inequality are prioritized for the benefits?

Which community benefit is the highest priority for you?

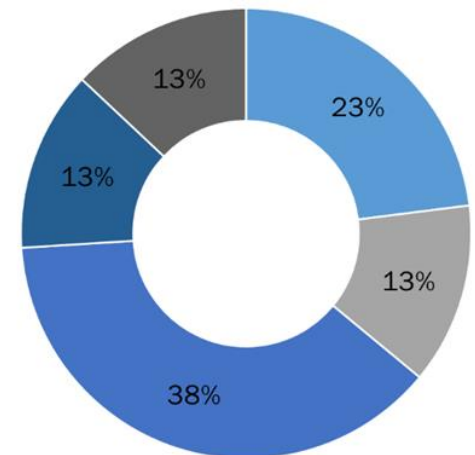
River Parishes



Southwest



Northwest



■ Air Quality & Public Health Improvements

■ Jobs & Workforce Development

■ Energy Cost Savings

■ Improved Access to Services & Amenities

■ Increased Climate Resilience

Priority Actions Preview





Support development of 500 MW of community solar statewide by 2030, with 255 MW for City of New Orleans electric customers

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 5 GW of
offshore wind power by
2035

Offshore Wind

- ❖ 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



Deploy 385 carbon-free microgrids serving Community Resilience Hubs and critical facilities by 2031

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

Community Resilience Hubs

- ❖ Deploy carbon-free microgrids serving community resilience hubs and critical facilities
- ❖ 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



Increase new
transmission capacity
by 30% by 2035

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



Industrial Decarbonization

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

- ❖ 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



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

Industrial Decarbonization

- ❖ 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

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 N₂O emissions annually from fertilizer production facilities through N₂O abatement strategies

- ❖ Implement carbon management projects in coordination with affected communities
- ❖ Capitalize on opportunities for regional decarbonization, especially at co-located facilities
- ❖ Reduce N₂O emissions as well as other GHGs, criteria, and hazardous co-pollutants



Identify and address the top 20% of leaking/emitting wells (900 wells)

Support the development of 12 landfill methane recovery projects for recovered methane procurement

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
- ❖ Pursue anaerobic digester demonstration project



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

- ❖ 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



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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



Ports

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

- ❖ 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



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



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

- ❖ 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



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



Reduce the need for prescribed burning on 66% of sugarcane acreage 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



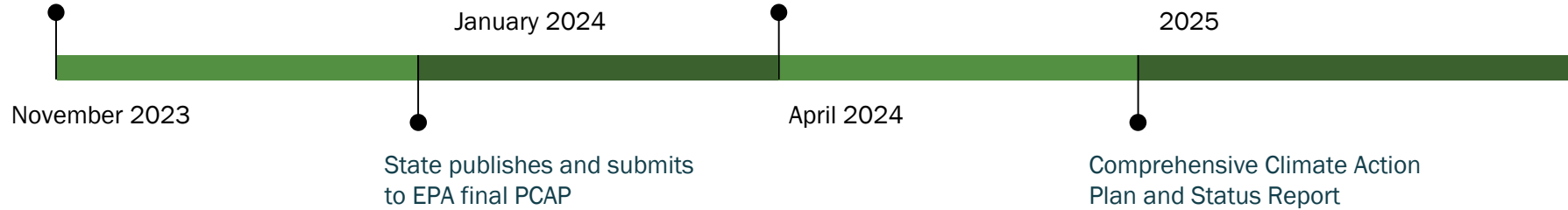
By 2030, replace conventional diesel with renewable diesel or electricity for 10% of Coastal Master Plan project construction

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

Next Steps

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



Thank you

