Louisiana 40101(d) Grid Resilience Application

DOE 40101(D) FORMULA PROGRAM
AND THE LOUISIANA STATE ENERGY SECURITY PLAN

LINDSAY COOPER
I. Call to Order / Introductions

II. Application for DOE’s 40101(d) “Preventing Outages and Enhancing Resilience of the Electric Grid Grants” Overview

III. DRAFT State Energy Security Plan Overview

IV. Public Comments and Discussion

V. Next Steps

VI. Adjourn
Guidance for Zoom Participation

• Meeting and chat are recorded and will be shared publicly following this meeting

• Remain on mute when not speaking

• Please keep your video on if able to do so

• During presentations, primary participation via chat questions

• During facilitated Q&A and Public Comment, primary participation via raise hand function unmute and speak
Need for Energy Resilience
Hurricane Laura and Ida Impacts
Hurricane Laura and Ida Power Outages
Extreme Weather Impacts

- Increased load on the energy grid from furnaces or HVACs running more frequently
- Extreme temperatures take more energy to warm up or cool down buildings
- Less effective conductors weighed down by heat or cold
- Higher costs for peak demand energy
- Potential for brown and blackouts

### Summer Weather Impacts on Load by Customer Type

- **Residential**: 48.8%
- **Small Commercial**: 24.7%
- **Large Commercial and Industrial**: 26.4%

>35,000 MW of weather-sensitive load -- 48% of peak

- Customer class breakdown is for competitive choice areas; percentages are extrapolated for municipals and co-ops to achieve region-wide estimate.
  - Large C&I are IDR Meter Required (>700kW)
  - 15-minute demand values
Energy Resilience

OBJECTIVE
Energy resilience seeks to modernize the power infrastructure system to withstand the stresses and shocks from extreme weather events and large-scale disruptions to move towards safe, efficient, and affordable grid.

OUTCOME
A reduction in the frequency, duration, and impact of outages for Louisiana residents, business, and critical services.
Federal Opportunity
DOE Grid Initiative

Improve all hazards resilience of the electric grid and prevent outages.

GOALS OF IMPROVEMENTS

1) Improve energy resilience that mitigates climate risk

2) Invest in modernized grid infrastructure to lower energy costs

3) Accommodate increased electrification, renewables, and distributed systems

4) Create good paying jobs

$62B in clean energy investments
$14B in financial assistance for providing products and services for enhanced reliability, resilience, and efficiency of the grid
Grid Resilience Investment Planning

Continuous Improvement


Near-term infrastructure deployment combined with long-term investment strategy

State, Tribe, & Community Policymakers → Regulators & Boards → Utilities

- Includes active participation by stakeholders and the public
- Policy goals to planning objectives
- Planning objectives to investment strategies

Asset hardening & refresh
Outage management systems
Adaptive protection technology
Modeling and simulation tools
Secure communications
Control/coordination of system assets and DERs
Application of energy storage & microgrids
## Grid Investment Opportunities

<table>
<thead>
<tr>
<th>Grant</th>
<th>Funding</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid Hardening Grants</td>
<td>$2.2B Competitive</td>
<td>Hardening activities to reduce risk to the electric grid</td>
</tr>
<tr>
<td></td>
<td>$2.3B Formula</td>
<td></td>
</tr>
<tr>
<td>Grid Resilience Demonstrations</td>
<td>$5B</td>
<td>Innovative approaches to transmission and distribution that</td>
</tr>
<tr>
<td></td>
<td></td>
<td>enhance resilience</td>
</tr>
<tr>
<td>Transmission Facilitation Program</td>
<td>$2.5B</td>
<td>Revolving fund to support new high-capacity transmission lines</td>
</tr>
<tr>
<td>Smart Grid Grants</td>
<td>$3B</td>
<td>Advanced transmission technologies to support demand flexibility</td>
</tr>
<tr>
<td>Energy Improvement in Rural Areas</td>
<td>$1B</td>
<td>Upgrade transmission and distribution lines for rural areas</td>
</tr>
<tr>
<td>Long-Duration Energy Storage /</td>
<td>$150M / $355M</td>
<td>Improve reliability of transmission and distribution systems</td>
</tr>
<tr>
<td>Energy Storage Pilot Program</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DOE Grid Initiative Phase I

STATE ENERGY SECURITY PLAN

• Provide state energy profile from generation to end use
• Overlay energy infrastructure with an assessment of physical and cyber threats and vulnerabilities of the grid
• Outline emergency response protocols
• Develop a risk mitigation approach for reducing consequences of disruptions
• Link to resilience investments

GRID RESILIENCE INVESTMENTS (40101(d))

Improve resilience of the electric grid through investments in

✓ All-hazards resilience
✓ Energy justice
✓ Workforce development
✓ Quality job creation
✓ Grid modernization
✓ Utilization of renewables and DERs
FORMULA ALLOCATION

$459M annually over five years to states and specified tribes;
$8M annually for LA over the next 5 FYs ($9.2M)

INTENT

Develop a foundational investment strategy as to how Louisiana will pursue formula and competitive funding for grid improvements related to

- All-hazards resilience
- Energy justice
- Workforce development
- Quality job creation
- Grid modernization
- Utilization of renewables and DERs

DUE SEPT 30
**40101(d) Narrative Guidance**

**EXPECTATION**

State applicants should undertake a strategic planning process to outline a framework that

1) Identifies highest priorities opportunities for near-term resilience

2) Formulates objectives and strategies for long-term investments

3) Measures progress and performance of investments through metrics

**APPLICATION**

- Formulation of **objectives and metrics** for planning criteria and investment decisions
- **Criteria and methods** for soliciting, awarding, distributing, and leveraging funds
- Intended **outcomes benefiting the public**
- Evidence of notice and **public hearing**
State Approach to 40101(d) Narrative
Louisiana’s Grid Resilience Approach

ALRD for 40101(d) released JULY 6

JULY MEETING
Discuss and agree upon a planning timeline and engagement path forward

AUG MEETING
Initiate and schedule stakeholder roundtables JULY

Hold stakeholder roundtables led by SEO; Develop project selection criteria AUGUST

Develop an initial draft of objectives and metrics; Debrief on stakeholder roundtable status

LATE AUG MEETING
Agree on final objectives and metrics based on feedback; Discussion of draft project selection criteria

Develop application package of objectives, metrics, and methods for formula submission SEPT 30

Assess gaps and develop strategy for competitive funding (priorities from WG) OCTOBER

Review package and pinpoint gaps; Report out on State Energy Security Plan draft and pinpoint gaps

PROPOSED 40101(D) APPROACH FOR LOUISIANA
Interagency Work Group

**ROLES & GOALS**

- Share best practices across different lenses of resilience
- Engage with and receive feedback from key stakeholder groups
- Collaborate on objectives and performance metrics that inform development of project criteria
- Agree upon criteria for all-hazards resilience projects
- **Align on near-term needs and long-term strategy to invest in grid improvements that enhance all-hazards resilience and prepare for a modernized, sustainable grid**
Stakeholder Engagement

- CSRS PSC Resilience Planning (8/2)
- Louisiana Energy User Group (8/5)
- Investor-Owned Utilities (8/8)
- Consumer Advocates (8/12)
- CNO Council and CNO (8/16, 8/18)
- Native American Commission (8/22)
- ALEC (Co-Ops) (8/23)
- LEPA (Municipals) (8/31)
- Public Hearing (9/7)
Stakeholder Summary

Key stakeholders provided critical feedback that will help develop objectives.

**RESILIENCY**

- Improve online readiness following extreme weather events.
- Minimize dependency on others to get back online.
- Encourage involvement/coordination of state/PSC.
- Diversify energy portfolio while leveraging existing assets.

**EQUITY**

- Improve regulations/statutes/codes to better reflect existing conditions (e.g., building codes need to align with weatherization objectives).
- Expand household-level resilience.
- Improve engagement/track progress on outcomes for disadvantaged communities and Indigenous peoples.

**ENVIRONMENTAL**

- Explore value and resiliency of EV technologies.
- Support decarbonization while also recognizing value of baseload/peaking units.
- Expand microgrids in vulnerable communities.

**AFFORDABILITY**

- Consider relocation of generation assets (i.e., assets closest to the coast are most expensive).
- Explore how community microgrids can create affordable, local protection against outages.
Shared State Objectives

2022 Climate Action Plan

2017 Louisiana Coastal Master Plan

Louisiana State Energy Security Plan (+ Hazard Mitigation Plan)

GOAL CATEGORY

RESILIENCY

ENVIRONMENTAL

AFFORDABILITY

EQUITY

SAFETY

PRIORITIZATION

OBJECTIVE

OBJECTIVE

OBJECTIVE

OBJECTIVE

OBJECTIVE

OBJECTIVE

OBJECTIVE

OBJECTIVE

OBJECTIVE

OBJECTIVE

OBJECTIVE

OBJECTIVE

IDENTIFY
COMMON THEMES
AND OBJECTIVES
ACROSS PLANS

PRIORITIZE
OBJECTIVES FOR
40101(d) AND NEAR-TERM ACTION
OBJECTIVE: RESILIENCY

Objective Statement
Modernize the power infrastructure system to withstand the stresses and shocks from extreme weather events and large-scale disruptions and move toward a safe, efficient, and affordable grid.

Core Strategies
1. Diversifying the existing energy resource mix and incorporating lower carbon-emitting resources.
2. Minimizing the vulnerability of existing infrastructure to natural hazards.
3. Expanding the use of distributed, decarbonized and emerging technologies.
4. Focusing on community resiliency through education and collaboration.

Outcomes
Reduce the frequency, duration, and impact of outages for Louisiana residents, businesses, and critical services.

DRAFT METRICS

Improvement in Outage Duration. Reduction in SAIDI (System Average Interruption Duration Index) for customers in targeted community area.

Improvement in Outage Frequency. Reduction in SAIFI (System Average Interruption Duration Index) for customers in targeted community area.

Reduction in Long-Duration Outages. Reduction in CELID (Customers Experiencing Long Interruption Duration) for customers in targeted community area.

Installed DER Critical Capacity. Power (MW) and Energy (MWh) capability of installed distributed energy resources as a percentage of business-as-usual and critical power capacity needs for targeted community area.
Grid Investment Objectives and Metrics

**OBJECTIVE: ENVIRONMENTAL**

**Objective Statement**
Build the next-generation sustainable, customer-centric, carbon-free grid.

**Core Strategies**
1. Reducing environmental pollution and subsequent impacts of power generation and power infrastructure.
2. Strengthen and smarten the grid to support the deployment and integration of more low- and zero-emission vehicles.
3. Incorporating climate mitigation and adaptation as part of urban, natural and working lands, and wetlands planning.
4. Providing a grid that supports increased and decarbonized electrification of the industrial sector processes and building components.

**Outcomes:**
Reduce greenhouse gas emissions, pollutants impacting public health, fuel costs, and energy burden in Louisiana (particularly in disadvantaged communities).

**DRAFT METRICS**

- **Reduction in Surface Level Pollutants.** Reduction in NOx and PM in vulnerable communities as a result of low- and zero-emission vehicle deployments.

- **Reduction in Fuel Costs.** Reduction in whole-wallet fuel costs due to electrification investments.

- **Reduction in Greenhouse-Gas emissions.** Reduction in site and source GHG emissions from targeted investments.
Grid Investment Objectives and Metrics

**OBJECTIVE: EQUITY**

**Objective Statement**
Advance more equitable, economically-sustainable, and resilient communities throughout Louisiana.

**Core Strategies**
1. Improving community resilience through ease of access to weatherization, energy efficiency, and distributed resources.
2. Reducing disproportionate impacts of power outages and ensuring a just energy transition for low-income residents.
3. Activating a knowledge hub around the energy transition that is accessible for all.
4. Enabling a next-generation workforce that represents the population of Louisiana.
5. Creating opportunities for new careers, business creation and wealth-building.

**Outcomes**
Create new careers, training, and apprenticeship opportunities for residents in disadvantaged communities/businesses and enable residents to have safe and efficient homes.

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**DRAFT METRICS**

**Residents in Weatherized Homes.** Number of residents, including residents from vulnerable communities, in homes that have been weatherized to better withstand extreme heat and cold outage events, the peak reduction capacity (MW) of weatherized homes, and the hours of resiliency in those homes.

**New careers.** Number of FTEs from vulnerable communities on funded projects, out of the total number of FTEs on funded projects.

**New trainees.** Number of residents of vulnerable communities receiving training and participating in apprenticeship programs, as part of funded projects.

**Disadvantaged Businesses.** Total % of project funding spent with Disadvantaged Business Enterprises (DBEs), and the total number of new DBEs created.
Grid Investment Objectives and Metrics

**OBJECTIVE: AFFORDABILITY**

**Objective Statement**
Reduce overall energy burden, particularly for disadvantaged communities, and ensure energy costs remain competitive.

**Core Strategies**
1. Expanding energy efficiency access to reduce energy bills for homes and businesses.
2. Reducing the cost of outages, resilience investments, and the energy transition.
3. Leveraging state investments to attract new federal and private investments.
4. Reducing the burden of high-cost low-frequency grid events.

**Outcomes**
Reduce energy bills and energy burden for vulnerable communities, take advantage of new federal and private funding, and reduce the cost of long-duration outages for communities.

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**DRAFT METRICS**

**Bill Savings.** Total energy cost savings (whole wallet) for customers in targeted communities, and average per customer energy cost savings for residents of vulnerable communities.

**Reduction in Energy Burden.** Reduction in energy costs, as a percentage of income, for residents of vulnerable communities.

**Residents Served by Community Resilience Centers.** Total person capacity of community resilience centers deployed to serve residents of vulnerable communities, and the total resilience capability (in hours) of resilience centers.
Grid Investment Objectives and Metrics

**OBJECTIVE: SAFETY**

**Objective Statement**
Ensure the continued, safe operation of the energy system by instituting standard safety practices and planning new investments through a safety lens.

**Core Strategies**
1. Improving power quality to reduce disruptive events for commercial and industrial customers.
2. Expanding training safety procedures for utility workers and DER installers.
3. Creating new situational awareness tools for the utility to understand where lines may be energized in outages.
4. Community education and outreach to improve safety during contingency events and for energy transition technology.

**Outcomes**
Reduce customer- and grid-side power quality and wires down instances while improving awareness of new safety considerations with distributed energy solutions.

**DRAFT METRICS**

- **Improvement in Power Quality.** A reduction in the Momentary Average Interruption Frequency Index (MAIFI) for targeted customers.

- **Reduction in Wires Down Events.** A reduction in Wires Down incidents involving Overheard electric primary distribution circuits.

- **Safety Training.** Number of linemen, distributed energy installers, and community members trained on safety procedures during hazards and for distributed energy.
Program Year 1 and 2: Project Selection Criteria
Louisiana-Specific Criteria: PY1 and PY2

• DOE set of minimum criteria:
  a) Generate greatest community benefit in reducing the likelihood and consequences of disruptive events;
  b) Include a set-aside for eligible entities not selling more than 4M megawatt hours of electricity per year; and
  c) Be restricted to projected located within the State of Louisiana.

• Louisiana identifies four additional categories for project selection:
  1) Grantees (WHO)
  2) Project Location (WHERE)
  3) Project Type (WHAT)
  4) Project Timing (WHEN/HOW)
### PROPOSED Grant Criteria: PY1 and PY2

#### DOE Minimum Requirements

<table>
<thead>
<tr>
<th>WHO</th>
<th>WHERE</th>
<th>WHAT</th>
<th>WHEN</th>
<th>HOW</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Electric grid operator</strong>&lt;br&gt;<strong>Electricity storage operator</strong>&lt;br&gt;<strong>Electricity generator</strong>&lt;br&gt;<strong>Transmission owner or operator</strong>&lt;br&gt;<strong>Distribution provider</strong>&lt;br&gt;<strong>Fuel supplier</strong>&lt;br&gt;<strong>Other relevant entity</strong>&lt;br&gt;<strong>Small utility set-aside</strong></td>
<td><strong>State of Louisiana</strong>&lt;br&gt;<strong>Small utility set-aside</strong></td>
<td><strong>Weatherization</strong>&lt;br&gt;<strong>Fire-resistance/prev.</strong>&lt;br&gt;<strong>Monitoring/Control</strong>&lt;br&gt;<strong>Undergrounding</strong>&lt;br&gt;<strong>Utility pole manage.</strong>&lt;br&gt;<strong>Power lines</strong>&lt;br&gt;<strong>DERs &amp; microgrids</strong>&lt;br&gt;<strong>Adaptive protection</strong>&lt;br&gt;<strong>Advanced modeling</strong>&lt;br&gt;<strong>Hardening</strong></td>
<td><strong>5-year period of performance per each annual budget period</strong></td>
<td><strong>Workforce development</strong>&lt;br&gt;<strong>Diversity, Equity, Inclusion and Accessibility</strong>&lt;br&gt;<strong>Buy America</strong>&lt;br&gt;<strong>Davis-Bacon</strong>&lt;br&gt;<strong>Cost-match</strong></td>
</tr>
<tr>
<td><strong>Other eligible entities to include “units of local government, critical facilities, non-profit organizations, and co-ops whose organizational mission is to serve and benefit disadvantaged communities.”</strong>&lt;br&gt;<strong>Set aside of 24.72%</strong></td>
<td><strong>$4.6M of funds benefitting disadvantaged communities even though investments may be made outside census tract</strong>&lt;br&gt;<strong>Demonstrate how investment will benefit disadvantaged communities</strong></td>
<td><strong>Critical Facility Microgrids</strong>&lt;br&gt;<strong>Community Microgrids</strong>&lt;br&gt;<strong>Community-Based “Relief Islands”</strong>&lt;br&gt;<strong>Vehicle-to-Building and Vehicle-to-Grid Integration</strong>&lt;br&gt;<strong>Enhanced Vegetation Management Programs</strong></td>
<td><strong>50% of Year 1 and Year 2 for “shovel ready” projects to be deployed in &lt;24 mo.</strong>&lt;br&gt;<strong>20% MIN of Year 1 and Year 2 for preliminary planning, analysis, and design work to support early-stage community-based project partnerships</strong></td>
<td><strong>Request for Information</strong>&lt;br&gt;<strong>Competitive Requests for Proposals</strong>&lt;br&gt;<strong>Future Down-Select for Community-Based Project Partnerships</strong>&lt;br&gt;<strong>Report Card</strong></td>
</tr>
</tbody>
</table>

#### Louisiana Prioritization Criteria

- Other eligible entities to include “units of local government, critical facilities, non-profit organizations, and co-ops whose organizational mission is to serve and benefit disadvantaged communities."
- Set aside of 24.72%
<table>
<thead>
<tr>
<th>Entity</th>
<th>State</th>
<th>Ownership</th>
<th>Customers (Count)</th>
<th>Sales (Megawatthours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunnova</td>
<td>LA</td>
<td>Behind the Meter</td>
<td>28</td>
<td>167</td>
</tr>
<tr>
<td>Spruce Finance</td>
<td>LA</td>
<td>Behind the Meter</td>
<td>66</td>
<td>514</td>
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<tr>
<td>Panola-Harrison Elec Coop, Inc</td>
<td>LA</td>
<td>Cooperative</td>
<td>9,342</td>
<td>178,532</td>
</tr>
<tr>
<td>Concordia Electric Coop, Inc</td>
<td>LA</td>
<td>Cooperative</td>
<td>13,747</td>
<td>191,576</td>
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<tr>
<td>Pointe Coupee Elec Member Corp</td>
<td>LA</td>
<td>Cooperative</td>
<td>10,468</td>
<td>214,077</td>
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<tr>
<td>Jefferson Davis Elec Coop, Inc</td>
<td>LA</td>
<td>Cooperative</td>
<td>10,185</td>
<td>234,564</td>
</tr>
<tr>
<td>City of Ruston - (LA)</td>
<td>LA</td>
<td>Municipal</td>
<td>10,959</td>
<td>246,042</td>
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<tr>
<td>Northeast Louisiana Power Coop Inc.</td>
<td>LA</td>
<td>Cooperative</td>
<td>17,345</td>
<td>267,038</td>
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<tr>
<td>City of Natchitoches</td>
<td>LA</td>
<td>Municipal</td>
<td>8,600</td>
<td>271,848</td>
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<td>Terrebonne Parish Consol Gov't</td>
<td>LA</td>
<td>Municipal</td>
<td>13,935</td>
<td>338,204</td>
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<td>South Louisiana Elec Coop Assn</td>
<td>LA</td>
<td>Cooperative</td>
<td>21,727</td>
<td>511,072</td>
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<td>Claiborne Electric Coop, Inc</td>
<td>LA</td>
<td>Cooperative</td>
<td>23,888</td>
<td>598,333</td>
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<td>City of Alexandria - (LA)</td>
<td>LA</td>
<td>Municipal</td>
<td>23,931</td>
<td>645,218</td>
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<td>Adjustment 2020</td>
<td>LA</td>
<td>Other</td>
<td>45,433</td>
<td>950,997</td>
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<tr>
<td>Washington-St Tammany E C, Inc</td>
<td>LA</td>
<td>Cooperative</td>
<td>53,392</td>
<td>980,282</td>
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<td>Beauregard Electric Coop, Inc</td>
<td>LA</td>
<td>Cooperative</td>
<td>43,461</td>
<td>1,268,527</td>
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<td>City of Lafayette - (LA)</td>
<td>LA</td>
<td>Municipal</td>
<td>69,366</td>
<td>1,917,039</td>
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<td>Dixie Electric Membership Corp</td>
<td>LA</td>
<td>Cooperative</td>
<td>113,371</td>
<td>2,096,928</td>
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<td>Vinton Public Power Authority</td>
<td>LA</td>
<td>Political Subdivision</td>
<td>3</td>
<td>2,189,098</td>
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<td>Southwest Louisiana E M C</td>
<td>LA</td>
<td>Cooperative</td>
<td>111,131</td>
<td>2,346,754</td>
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<td>Entergy New Orleans, LLC</td>
<td>LA</td>
<td>Investor Owned</td>
<td>206,965</td>
<td>5,449,556</td>
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<td>Southwestern Electric Power Co</td>
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<td>Investor Owned</td>
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<td>Cleco Power LLC</td>
<td>LA</td>
<td>Investor Owned</td>
<td>290,021</td>
<td>8,258,863</td>
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<td>Entergy Louisiana LLC</td>
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<td>Investor Owned</td>
<td>1,098,249</td>
<td>53,896,350</td>
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</tbody>
</table>

Customers for entities <= 4,000,000 MWh: 600,378

Total of all Customers: 2,428,427

% of customers in entities <= 4,000,000 MWh: 24.72%
Federal Justice40 Initiative: Will track by CEQ’s CEJST Tool and DOE “Disadvantaged Community Reporter” map

The Climate and Economic Justice Screening Tool (CEJST) is a new tool by the White House (CEQ) to help Federal agencies identify Disadvantaged Communities (DACs) as part of the Justice40 Initiative.

DOE's working definition of “disadvantaged” is based on cumulative burden and includes data for thirty-six (36) burden indicators collected at the census tract level.
# Funding Distribution PY1 and PY2

<table>
<thead>
<tr>
<th>Project Timing</th>
<th>Project Location</th>
<th>Approximate Budget</th>
<th>Project Types</th>
<th>Grantees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete &lt; 24 months (50%)</td>
<td>Benefitting Disadvantaged Community (50%)</td>
<td>$2,301,603.75</td>
<td>• Critical Facility Microgrids</td>
<td>At least 24.72% of grant funds must go to eligible entities that do not have more than 4,000,000 MWh of electricity sales a year.</td>
</tr>
<tr>
<td></td>
<td>Any Project Location</td>
<td>$2,301,603.75</td>
<td>• Community Microgrids</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>• Community-based “relief islands”</td>
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<td></td>
<td></td>
<td></td>
<td>• V2H &amp; V2G</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>• Enhanced Vegetation Management</td>
<td></td>
</tr>
<tr>
<td>Early-Stage Community-Based Project Partnerships (20%)</td>
<td>Benefitting Disadvantaged Community (100%)</td>
<td>$1,841,283</td>
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<tr>
<td>All Other Timing (12.65%)</td>
<td>Benefitting Disadvantaged Community (50%)</td>
<td>$580,404.75</td>
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<tr>
<td></td>
<td>Any Project Location</td>
<td>$580,404.75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Match Support (13%) [* 15% of federal funding]</td>
<td></td>
<td>$1,200,837</td>
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<td></td>
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<tr>
<td>Administration and Technical Assistance (4.35%) [* 5% of federal funding]</td>
<td></td>
<td>$400,278</td>
<td>State Program administration and technical assistance</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$9,206,415</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Total Benefitting Disadvantaged communities</td>
<td><strong>$4,603,207.50</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Benefitting Disadvantaged communities</td>
<td><strong>51.3%</strong></td>
<td></td>
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</tbody>
</table>
PROPOSED Community-Based Project Partnerships

• Projects eligible for funding in the Community-Based Project Partnerships category include projects that:
  - Are led by municipal or co-op utility, unit of local government, community-based non-profit, a company located in a disadvantaged community, or other entities approved by the state and eligible for DOE requirements and approvals;
  - Substantially and meaningfully provide benefits to disadvantaged communities;
  - Work with the local community through meaningful engagement; and
  - Include carbon-free energy sources.

• The State will provide grant awards for project costs related to: feasibility, project design, technical analysis, siting, permitting, community engagement, and other pre-development costs.
HOW

Request for Information
- Generate awareness of upcoming funding
- Identify existing projects for a 24-mo. Timeline
- Identify possible early-stage community-based project partnerships

Competitive Requests for Proposals
- Projects that can be completed in <24 months
- Early-Stage Community Based Project Partnerships
- All other timing

Future Down-Select for Community-Based Project Partnerships
- Down-select 3 projects per year for larger, follow-on funding based on likelihood to be completed and identified community benefit
- Five years to complete project

Report Card
- All funded projects must report on metrics identified on an annual basis
- SEO will compile into an annual report
Questions
State Energy Security Plan
**DOE Grid Initiative Phase I**

**STATE ENERGY SECURITY PLAN**

- Provide state energy profile from generation to end use
- Overlay energy infrastructure with an assessment of physical and cyber threats and vulnerabilities of the grid
- Outline emergency response protocols
- Develop a risk mitigation approach for reducing consequences of disruptions
- Link to resilience investments

**GRID RESILIENCE INVESTMENTS**

Improve resilience of the electric grid through investments in

- All-hazards resilience
- Energy justice
- Workforce development
- Quality job creation
- Grid modernization
- Utilization of renewables and DERs
# Draft Louisiana State Energy Security Plan (SESP)

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*Note: Report outline based on DOE SESP guidance.*
Connection to other Relevant Louisiana Plans

State Plans
- 2022 Louisiana Climate Action Plan
- 2011 Louisiana State Energy Assurance Plan
- 2022 Louisiana Energy Facts Annual
- 2017 LA Comprehensive Master Plan for a Sustainable Coast
- 2019 GOHSEP Louisiana Hazard Mitigation Guide

Utility Plans
- 2019 Entergy Louisiana Integrated Resource Plan
- 2021 Entergy New Orleans Integrated Resource Plan
- 2019 SWEPCO Integrated Resource Plan
- 2022 ALEC Louisiana Emergency Work Plan

2022 Louisiana State Energy Security Plan
Transparency and Feedback Process

August 2022 Stakeholder Engagement Roundtables

CSRS PSC Resilience Planning
Louisiana Energy User Group
Investor-Owned Utilities
Consumer Advocates
Native American Commission
ALEC (Co-Ops)
LEPA (Municipals)
Public Hearing

2022 Louisiana State Energy Security Plan
Executive Summary

Key Takeaways

• Highlights the key takeaways from the report
• 1-2 pages, 1-2 charts/graphics

SECTION 1: Introduction

Background and Context

• Why Louisiana needs an energy security plan
• Connection with 40101(d) objectives

Report Organization and Purpose

• Description and purpose of report sections
SECTION 2: Energy and Risk Profiles

State Energy Profile
- Overview of energy supply, demand, import/export, and infrastructure
- Profile of Louisiana using EIA data, maps, and lists of key infrastructure and service providers

Threats and Vulnerabilities
- Information on historic climate and cybersecurity threats
- Description of vulnerabilities (supply chain, coastal economy, disadvantaged communities)

Risk Assessment
- Description of cross-sector interdependences
- Assessment of the risk to critical state infrastructure
SECTION 3: Energy Security and Emergency Response Authorities

Federal Authorities and Organization Structure

• Description of federal authorities’ roles prior to and during emergency events

Relevant State Authorities

• Emergency response laws and authorities relevant to energy resources
• List of primary organization responsible for Emergency Support Functions (ESF) relevant to energy security

Relevant Local and Tribal Authorities

• Description of authorities within local parishes and tribal governments
SECTION 4: Energy Security Planning and Preparedness

State Energy Office Roles and Responsibilities
- Monitoring energy markets
- Assess mitigation, impact, and response actions
- Energy Emergency Assurance Coordinators (EEAC) program
- Stakeholder engagement
- Staff training and exercises
- After action reporting, evaluation, and continuous improvement
- State emergency response responsibilities

Roles of Other State Entities Relating to Energy Security
- Governor’s Office roles
- Governor’s Energy Advisor roles
- Public Service Commission (PSC) roles
- Governor’s Office of Homeland Security and Emergency Preparedness (GOHSEP) roles

Tribal Coordination
- Coordination with Indian Tribes with respect to planning and response

Regional Coordination
- Regional implementation plans and mutual assistance to cyber and physical responses
SECTION 5: Energy Emergency Response

Response Cycle Overview
• Description of the emergency management cycle: Info-Gathering → Consequence Assessment → Response

Info. Gathering and Situational Awareness
• Description of the data and tools used by the state (e.g., EAGLE-I, EIA tools, NOAA tools, etc.)

Consequence Assessment Guidelines
• Description of tiers of event consequences for power outages, liquid fuels shortages, and natural gas shortages

Response Actions
• Response actions description by event actor and emergency (12 matrices of response actions)
SECTION 6: Energy Resiliency and Hazard Mitigation

Louisiana Approach

- Louisiana vision for resiliency and energy security
- Louisiana-specific mitigation measures
- General mitigation measures

Link to 40101

- How objectives from 40101 are relevant to Louisiana energy security planning
- How 40101 investment criteria is informed by data gathered in the SESP
Appendices

SESP Connection to Relevant State Plans

Other Relevant Energy Sector Risk Assessments / Resources

• NIPP, THIRA – energy integration, cybersecurity risk assessments

Data / Situational Tools

References / Bibliography

• List of citations (EIA, Louisiana Climate Action Plan, Louisiana’s Comprehensive Master Plan for a Sustainable Coast, DOE, CESER, GOHSEP Hazard Mitigation Guide, etc.)

Additional State Energy Profile Charts and Figures

List of Figures and Tables
Next Steps for the State Energy Security Plan (SESP)

• Build upon the SESP over the next year

• Identify opportunities for further analysis
  o Ex. Geographically targeting grid investments aligned with disadvantaged communities
  o Ex. Economic impact and benefit-cost analyses of grid investments
  o Ex. Bolster physical- and cyber- security analyses

• Update as new programs emerge/evolve
Questions
Discussion – 40101 Application

• Discussion Category 1
  ➢ Key discussion point a
  ➢ Key discussion point b
  ➢ Key discussion point c

• Discussion Category 2
  ➢ Key discussion point a
  ➢ Key discussion point b
  ➢ Key discussion point c

• Discussion Category 3
  ➢ Key discussion point a
  ➢ Key discussion point b
  ➢ Key discussion point c

• Discussion Category 4
  ➢ Key discussion point a
  ➢ Key discussion point b
  ➢ Key discussion point c
Discussion – State Energy Security Plan (SESP)

• Discussion Category 1
  ➢ Key discussion point a
  ➢ Key discussion point b
  ➢ Key discussion point c

• Discussion Category 2
  ➢ Key discussion point a
  ➢ Key discussion point b
  ➢ Key discussion point c

• Discussion Category 3
  ➢ Key discussion point a
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  ➢ Key discussion point c

• Discussion Category 4
  ➢ Key discussion point a
  ➢ Key discussion point b
  ➢ Key discussion point c
Next Steps