Federal Funding

$73.1 million – Louisiana – Infrastructure and Jobs Act (IIJA)

- **Actual** FY 2022 Funding = $10,859,512
- National Electric Vehicle Infrastructure (NEVI) Formula Program
- Statewide Deployment Plan Approved 9/15/2022
Federal Funding

- Estimated Future Disbursements for DOTD

- FY 2023 Funding = $15,626,960
- FY 2024 Funding = $15,627,068
- FY 2025 Funding = $15,627,081
- FY 2026 Funding = $15,627,114
Grant Program

- Up to 80% Federal Match (NEVI Funds)
- Minimum 20% Grant Recipient Match
- Competitive Selections
  - Applications January – April 2023
- Grant Awards
  - Committee Selections by July 2023
DC FAST CHARGING STATIONS
Interstate Plan

Legend

DC Fast Charging Stations
- Proposed
- Existing

EV Corridors
- EV Corridor Proposed
- EV Corridor Ready
Alternative Fuel Corridors

- Electric and Hydrogen Fuel (July 2022)

Statewide EV Deployment Plan

- **Direct Current (DC) Fast Chargers**
  - Four 150 kW ports = 600 kW/site

- **Phase 1 ~ 30 new and upgraded sites (built-out)**
  - ~120 total DC fast chargers

- **Phase 2 ~ 190 new sites beyond corridors**
  - ~760 total EV chargers (may include Level 2)
  - ~300 DC fast chargers
Proposed Federal Guidance

Notice of Proposed Rulemaking – 6/22/2022

- Direct Current (DC) Fast Chargers – Level 3
- Within 1 Mile of Interstate or Other EV Corridor
- Cybersecurity Requirements
- 600 kW Minimum Electric Capacity
- Build America Buy America
Proposed Federal Guidance (cont.)

- Public Use
- 4 Port Minimum – 4 EV’s Simultaneously
- ADA Compliant
- 24-hour Accessibility
- Justice40 – location, cost, workforce, ownership
- Open Charge Point Protocol (OCPP)/Plug & Charge
Proposed Federal Guidance (cont.)

- Maximum 50 Miles Apart (Built-out Status)
- Multilingual Payment System
- Combined Charging System (CCS) Type 1 Connector
- OSHA Certification
- Directional Signage
- Quarterly and Annual Reporting
Minimum Cybersecurity

- User identity access management
- Appropriate encryption systems
- Intrusion and malware detection
- Event logging and reporting
- Management of software updates
- Secure operation during communication outages
Build America, Buy America Act

- Required per FHWA 6/22/2022 Notice of Proposed Rulemaking
- Comments for proposed partial waiver ended 9/30/2022
- Steel, iron, manufactured products, and construction materials in EV chargers
EV Grant Selection Criteria

- Compliance with Federal guidance
- Meets all application scoring criteria
- Priority for locations without utility upgrades (site-ready)
- Cost estimates for installation and maintenance
- Design specifications
EV Grant Application

- Request for Proposals (RFP) – U.S.C. Title 23
  - January 2023

- Notice of Intent (NOI)
  - December 2022

- DOTD Project Number assigned to each site
  - 1 charging station = 1 Site
  - 1 or more sites = 1 Project
  - State Transportation Improvement Plan (STIP)
  - MPO Transportation Improvement Programs (TIPs)
I. Applicant Information

Application Date *

MM/DD/YYYY

Applicant's Name *

First Name

Last Name

Phone *

Email *

Address *

Street Address

Address Line 2
EV Grant Application

Quotes for Cost Estimates

Utility Costs (Quote from Utility Company)

- Components to connect station to electricity source
- Transformers and other on-site electrical equipment for power
- Costs to acquire and install electric service, equipment, and upgrades (e.g. power meter, transformer, switch gear)
- Minor grid upgrades to connect station to grid distribution network (e.g. extending power lines, upgrading existing lines)
EV Grant Application

Quotes for Cost Estimates

Installation Costs

- Electric Vehicle Supply Equipment (EVSE)
- Installers (EVITP certified electricians, etc.)
- Other fees (e.g. site lease, partnerships, lighting, drainage, structural)
EV Grant Application

Quotes for Cost Estimates

Operation and Maintenance Costs

- Cybersecurity
- Monthly Utility Fees
- User Fee Collection
- Quarterly and Annual Reporting
- Annual Incident Management
- Certifications
- Permitting
- Other Operating and Maintenance Costs
# EV Grant Application Scoring

<table>
<thead>
<tr>
<th>Selection Criteria</th>
<th>Accommodate Vehicles and Large Trucks</th>
<th>Distance from nearest EV charger</th>
<th>Level of DBE Participation</th>
<th>Total Cost (Including utility upgrades)</th>
<th>Business model for service beyond 5 years (Qualitative)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Points Allowable (100)</td>
<td>1</td>
<td>30</td>
<td>10</td>
<td>15</td>
<td>3</td>
</tr>
<tr>
<td>Points Assigned</td>
<td>Yes = 1</td>
<td>Over 40 Miles = 30</td>
<td>Greater than 20% = 10</td>
<td>Less than $250,000 = 15</td>
<td>Strong = 3</td>
</tr>
<tr>
<td></td>
<td>No = 0</td>
<td>15.1 to 40 Miles = 20</td>
<td>15% -19.9% = 8</td>
<td>$51,000 - $500,000 = 10</td>
<td>Reasonable = 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5.1 to 15 Miles = 10</td>
<td>10% -14.9% = 5</td>
<td>$501,000 - $750,000 = 5</td>
<td>Weak = 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Less than 5 Miles = 0</td>
<td>5% -9.9% = 2</td>
<td>Greater than $750,000 = 0</td>
<td>No Plan = 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Less than 5% = 0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
EV Grant Application Scoring (cont.)

<table>
<thead>
<tr>
<th>Selection Criteria</th>
<th>On the job training / Apprenticeships (Construction; Operation &amp; Maintenance)</th>
<th>Customer Safety/Security</th>
<th>Percent Markup for Charging (Over utility cost)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Points Allowable (100)</td>
<td>2</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>Points Assigned</td>
<td>Construction Apprentice = 1</td>
<td>On-Site 24 hours 7 days/week Security = 5</td>
<td>0-10% = 15</td>
</tr>
<tr>
<td></td>
<td>Operation &amp; Maintenance Apprentice = 1</td>
<td>On-Site 12 hours 7 days/week Security + Camera = 3</td>
<td>11-20% = 10</td>
</tr>
<tr>
<td></td>
<td>No Apprentice = 0</td>
<td>Camera Only = 1</td>
<td>21-30% = 5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No Security = 0</td>
<td>Over 30% = 0</td>
</tr>
</tbody>
</table>
EV Grant Application Scoring (cont.)

<table>
<thead>
<tr>
<th>Selection Criteria</th>
<th>Payment Options</th>
<th>Customer Amenities</th>
<th>Proximity to Justice40 community</th>
<th>Service during power outage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Points Allowable (100)</td>
<td>2</td>
<td>2</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>Points Assigned</td>
<td>Cash = 1</td>
<td>Bathrooms = 1</td>
<td>Inside = 10</td>
<td>Backup generator = 5</td>
</tr>
<tr>
<td></td>
<td>Credit Card/Debit Card = 1</td>
<td>Vending/Food/Beverage = 1</td>
<td>Within 1 mile = 5</td>
<td>Solar with sufficient power = 3</td>
</tr>
<tr>
<td></td>
<td>Cashless/Cardless = 0</td>
<td>No Amenities = 0</td>
<td>Within 5 miles = 2</td>
<td>No service = 0</td>
</tr>
<tr>
<td></td>
<td>Over 5 miles = 0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
EV Grant Program

- Up to 80% of invoiced amount will be paid to grant recipients
  - Satisfactory inspection and reporting
    - Operable Stations
    - In Compliance with State and Federal Requirements

- Contract between DOTD and Grant Recipients
  - DOTD Standard Form

- Contract between Grant Recipients and Vendors
  - DOTD Standard Form
Justice40

- 40% of EV Program benefits are delivered to Disadvantaged Communities (DACs)
  - Tribal Nation, Women, Black, Latino, Asian American Pacific, Indigenous, and other underrepresented groups
  - Charging Sites (Access, Zero Emissions)
  - Equitable Payment Options
  - Job Training/ Workforce Development/ Entrepreneurship
    - Ownership, Installation, Operation, Maintenance, Apprenticeships
    - Disadvantaged Business Enterprise (DBE) Vendors
EV Charging – Justice40 Map

Map Legend

- Public EV Charging Station (Non Tesla DC Fast, as of July 22, 2022)

- FHWA Designated EV Corridors (Rounds 1-6)
  - EV Corridor Ready - A sufficient number of EV charging stations currently exist (minimum 50-mile intervals)
  - EV Corridor Pending - An insufficient number of EV charging stations currently exist

- Tribal Lands

- DOE/DOT Interim Guidance DAC (May 2022)

- U.S. Territories

Electric Vehicle Charging Justice40 Map (arcgis.com)

Energy Justice Dashboard (anl.gov)
Suggestions for Profitability

Partnerships

- Land owners may partner with supply equipment (EVSE) companies as site hosts
  - Existing business locations may attract new customers

- Investors/donors may partner with companies for non-federal match

- Electricians may partner with EVSE companies as installers
Associated Work Types

- Electrical installation/electric company – wiring, lighting, boring, etc.
- Electric Vehicle Supply Equipment (EVSE) installation
  - Electrician - NAICS 238210
- EVSE provider/manufacturer
- Concrete worker – pouring slab for EVSE
- Parking lots and striping
- Permitting
- EVSE reporting
- Cybersecurity analyst
- Site designer/drafter
Associated Work Types (cont.)

- Security guard/camera monitoring
- Awning/overhead covering provider
- Drainage installation
- Directional signage
- Accounting/bookkeeping
- Site host/lease
- Insurance Provider
- Service for other amenities (vendors, janitorial)
Upcoming Dates

- TBD: Electrical Contractor Meeting
- January – April 2023: Applications Open
- July 2023: Site Selection and Grant Awards
- Fall 2023/Winter 2024: Round 1 Installations
Resources

- U.S. Joint Office of Energy and Transportation
  - www.DriveElectric.gov

- Alternative Fuels Data Center
  - www.AFDC.Energy.gov

- Justice40
  - https://www.energy.gov/diversity/justice40-initiative

- DOTD EV Infrastructure Deployment
  - EV-Infrastructure (la.gov)
Contact

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DOTD-EVProgram@la.gov