



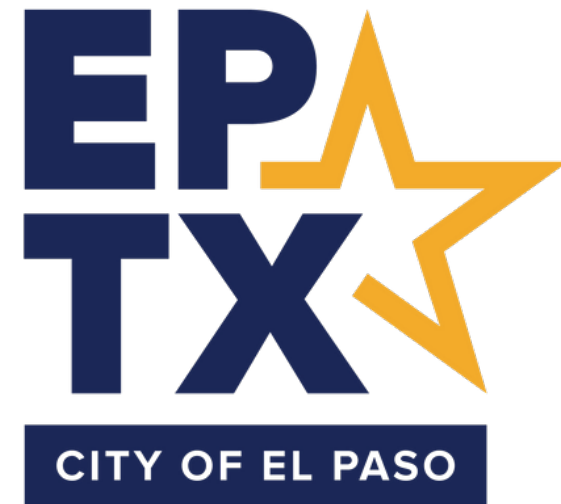
Wireless Integrated Rapid Energy Link Electric Shuttle Service-WIRELESS



U.S. DEPARTMENT OF
ENERGY

**FY24 Communities
Taking Charge
Accelerator**





STRATEGIC PLAN

Goal 7: Enhance and sustain
El Paso's infrastructure network



Overview

- **FY24 Communities TCA Program**
- **Project Scope of work**
- **Project Budget**
- **City Impacts**
- **Grant Timeline**
- **Council action**





U.S. DEPARTMENT OF
ENERGY

FY24 Communities Taking Charge Accelerator (TCA) Bipartisan Infrastructure Law (BIL)

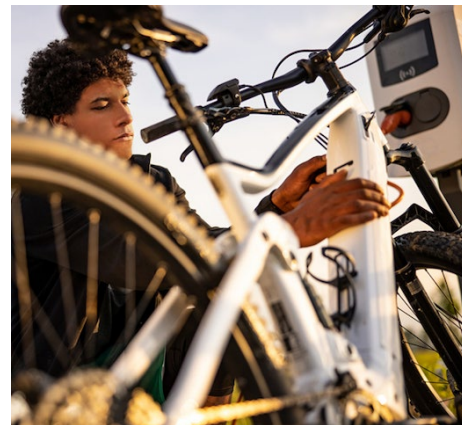
Estimated Funding

- \$46,000,000 allocated to 14-41 awards
- \$250,000 - \$4,000,000 award range

Invitation to Apply

- Concept Paper submitted May 20 by ASPIRE
- DOE sent a Letter of Encouragement to Apply on June 11





**Topic 1 – Solving for No-Home Charging:
Expanding Charging Access for Privately
Owned E-Mobility**



**Topic 2 – Expanding E-Mobility Solutions
through Electrified Micro, Light and
Medium-Duty Fleets**



**Topic 3 – Managed Charging for Clean
Reliable Energy**

Learn More

[Communities Taking Charge · Joint Office of Energy and Transportation \(driveelectric.gov\)](https://driveelectric.gov)

Project Scope of Work

Project Tasks (planning):

1. Developing resilient infrastructure strategies for the EPIA shuttle service using EVI-InMotion Tool
2. Assessing dynamic wireless charging (DWPT) design criteria and opportunities to integrate solar energy generation
3. Developing a Community Benefits Plan

Project Partners:

- Utah State University (Lead applicant)
- UTEP (Co-Applicant)
- ASPIRE Research Center
- City of El Paso + El Paso International Airport (EPIA)
- National Renewable Energy Lab (NREL)
- University at Buffalo



Dynamic Wireless Charging (DWPT)



[Electric Vehicles at Scale Consortium Dynamic Wireless Power Transfer | Department of Energy](#)

DWPT along ELP Shuttle Service Routes



El Paso International Airport

Project Budget

Project Components	Grant
In-Motion Wireless Charging Strategies	\$1,500,000
DWPT Integration Assessment	
Community Benefits Plan	
Indirect	\$500,000
Total	\$2,000,000

- No City match is required

Impact to City of El Paso

The Project deliverable is a planning document and cost estimate outlining how electrified paving and shuttles can work at the EPIA

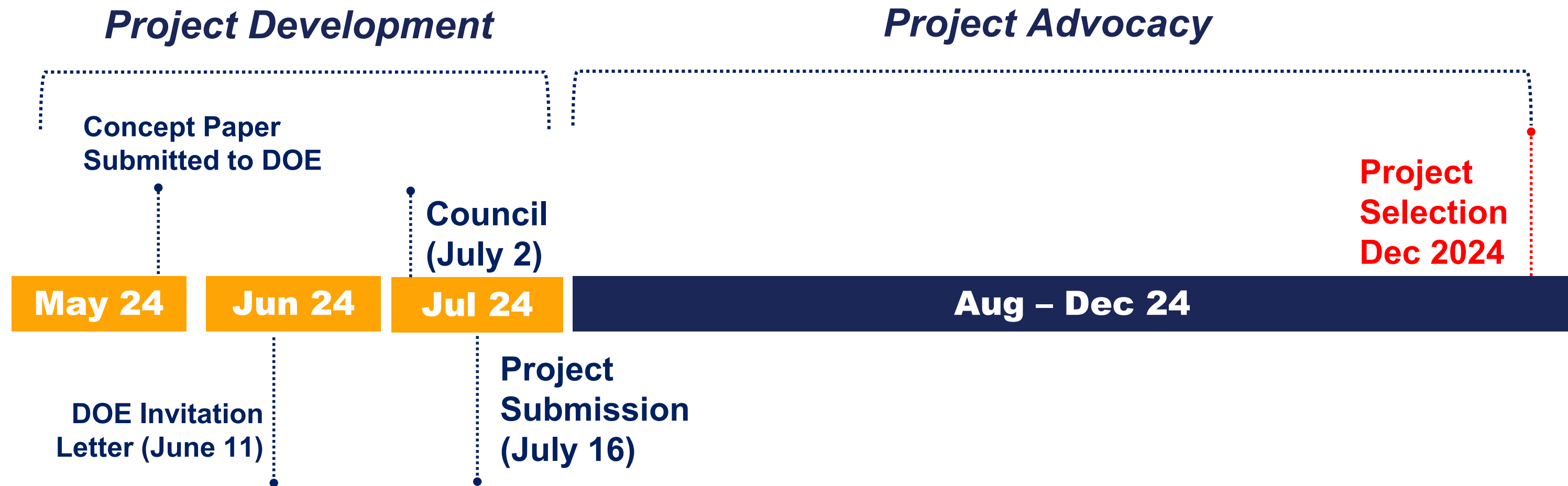
- Implementation via DOE and USDOT funding
- Possible future public-private partnerships
- Increased visibility and accessibility at EPIA
- Advance electrification initiatives and transition to electric vehicles

Direct Link with Other City Projects:

- El Paso County EV Charging Station Network (\$15M USDOT grant)
- Sun Metro EV Microtransit Shuttles (\$720K grant)
- El Paso Recompete Network



Grant Development Timeline



Council Action

Discussion and action on a Resolution supporting an Application by the Utah State University (USU) and University of Texas at El Paso (UTEP) ASPIRE NSF Engineering Research Center to the U.S. Department of Energy (DOE) Fiscal Year (FY) 2024 Communities Taking Charge Accelerator grant program requesting up to \$2,000,000.00 in funds for the Wireless Integrated Rapid Energy Link Electric Shuttle Service-WIRELESS (“Project”) and authorizing participation from City of El Paso staff and use of facilities at the El Paso International Airport (EPIA) in the Project for planning activities, with no match required from the City.





Mission

Deliver exceptional services to support a high quality of life and place for our community



Values

Integrity, **R**espect, **E**xcellence,
Accountability, **P**eople



Vision

Develop a vibrant regional economy, safe and beautiful neighborhoods and exceptional recreational, cultural and educational opportunities powered by a high performing government

