Co-optimized power and transportation networks



Smart charging across vehicle classes and user groups



Synergy with connected and autonomous vehicles

Wired and wireless charging systems bring power to the vehicle

High utilization = Low cost charging



Pilot Demonstration Technology Components



Charln Plug-in Megawatt Charging System (MCS)



5G Networked Smart Grid and Charge Management



In-motion Dynamic Wireless Charging



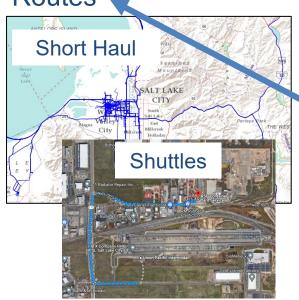
Megawatt Static Wireless Charging



UIPA Electrification Pilot – Phase 1

Routes

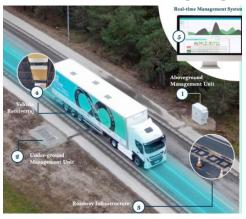








In-motion Dynamic Wireless Charging



Megawatt Static Wireless Charging

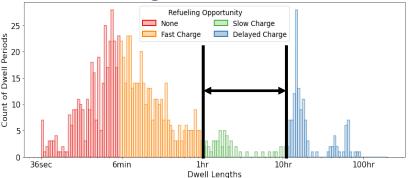






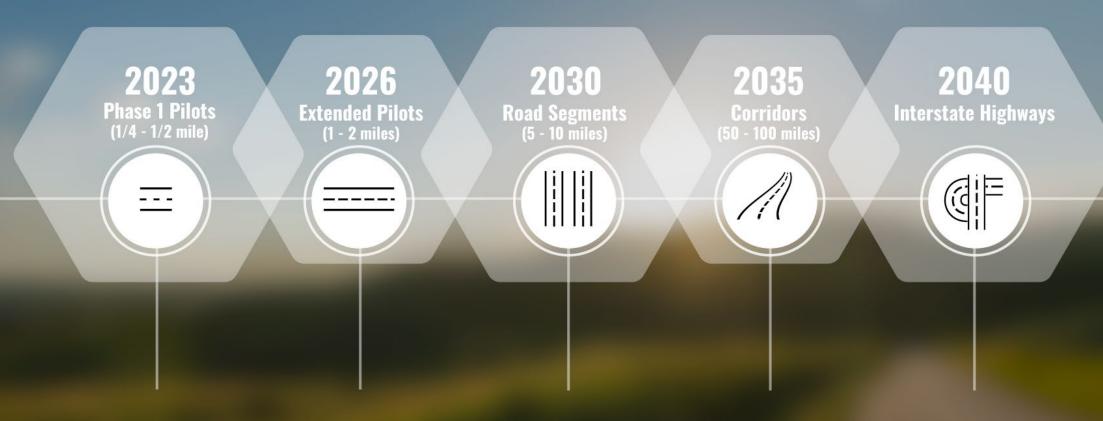


Modeling – Data Collection





20-Year Roadway-Electrification Roadmap



2023: Electric Roadway pilots installed in Utah, Indiana, and Florida. 2026: Initial learnings extended as supply chain is built out.

2030: Installing roadway segments in key locations across the US.

2035: Electric Roadway corridors established. 2040: Electric Roadways expand from metro areas.