Who Are We?

• Locally managed, wholly-owned subsidiary of Berkshire Hathaway Energy Company

• PacifiCorp is the largest grid owner-operator in the western United States

• 1.8 million retail customers across 143,000 square miles in six western states

• PacifiCorp continues to grow renewable resources and transitions to a lower-carbon future by being the 2nd largest utility owner of wind resources in the United States
WestSmartEV: 3-Year Community Partnership
Project Approach

Task 1 Electric Highways: 1,500 miles of electrified interstate with 65+ DCFC

Task 2 Workplace Charging: Workshops and 600+ L2 at work locations (completed)

Task 3 EV Adoption Pilots: Incentives for 200+ EV purchases (completed)

Task 4 Smart Mobility: All electric solutions in urban areas

Task 5 WSEV Central: Data collection, analysis, modeling, lessons learned

Task 6 Outreach: Lessons learned dissemination, materials, workshops
DCFC location analysis

- Developed power and energy demand models along the corridors
  - Dynamic vehicle models
  - All corridors, each direction, including elevation
  - State DOT volume and origin-destination traffic data
- Developed dynamic analysis tool of EV trips supported by DCFC
  - Energy consumption model
  - EV trips possible through the network
  - Online visualization tools
Corridor Charger integration

Chargers installed to date
- 41 DC Fast Chargers (DCFC)
- 700+Level 2 chargers
- In both urban and rural areas

Highway corridor coverage
- Utah Interstates I-15, I-80: chargers at least every 100 miles, targeting every 50 miles
- National parks: EV access to Zion and Bryce Canyon, plans for Arches and Yellowstone

Photos: PlugShare.com
Most frequent use comes from EV drivers who live outside/on outskirts of population centers. DCFC use by EV drivers in the city tends to be less frequent.
Analysis:

Based on user zip codes, DCFC deployed along I-15 by WSEV have successfully enabled EV travels from Los Angeles through the State of Utah.

A high number of drivers from Las Vegas and Los Angeles are using the corridor’s DCFC.
Smart mobility services

Launched LYFT electric program

• Incentivize drivers to participate
• Train drivers to be EV ambassadors
• Provide access to multiple strategically located fast charging stations
• On-site ultra-Fast Chargers

Launched electric car share program with Envoy There group

• Car share for residents includes short and long range Evs
• Includes high-end, student, low income housing
Smart mobility e-bus

Six electric buses
- Park City bus route
- Compiled data of both charger and bus performance for almost 2 years

Y2 rollout planning: Salt Lake City
- Collected real world drive cycles
- Developed electric bus system planning tool

Photo: Park City Transit

800,000+ Miles traveled
150,000+ GAL avoided
18.3 MPGe (Diesel is 4 MPG)
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