

Transportation Electrification Grant

April 17, 2009

Transportation Electrification

- Stimulus Funding
- US Department of Energy
- Requires partnership with a car company

Project Goals

- Charging infrastructure. Research and deployment.
- Education/Outreach. Promote electric vehicles.
- Innovative vehicles. Lower fuel cost, testing for future needs.
- Marketing/Promotion. Twin Cities as world leader in innovative green technology.

Minneapolis/St. Paul – Transportation Electrification

Project Partners





Partners receive Ford plug-in vehicles in exchange for charging infrastructure installation and maintenance.



Marquee Stations

City Investment: (\$40,000 cash outlay)

- 2 parking spaces at highly visible location
- Solar-powered charging station
- Operation and maintenance of station and vehicles

Ford Investment:

- 2 Vehicles: (ea. valued at ~\$65,000)

Parking Ramp

City Investment: (\$20,000 cash outlay)

- 20 parking spaces
- Installation of electrical outlets
- Operation and maintenance of parking spaces and vehicles

Ford Investment:

- 1 Vehicles: (ea. valued at ~\$65,000)

On-Street Parking

City Investment: (\$20,000 cash outlay)

- 3 parking spaces
- Installation of “smart” charging station
- Operation and maintenance of parking spaces and vehicles

Ford Investment:

- 1 plug-in vehicles:
(ea. valued at ~\$65,000)



City Commitment

- 3 Marquee Solar-powered stations
 - Receive 6 vehicles
- 100 Parking Ramp spaces with outlets
 - Receive 5 vehicles
- 21 on-street spaces “smart” charging
 - Receive 7 vehicles

Project Costs

- \$360,000 investment in infrastructure from vehicle funds
 - \$260,000 Public Works Fleet Services
 - \$100,000 Regulatory Services
- Receive 18 vehicles (~ \$1,170,000)
- Xcel contributes \$11 million investment in research and grid infrastructure

City Benefit

- Highly visible marquee charging stations. Solar, 2 parking spots, signage, prime location
- Plug-in spots in parking ramps
- Charging spots for fleet vehicles
- On street charging parking spots
- Xcel Energy Smart Grid research
- 18 plug-in vehicles