

2007-0241

King County Department of Transportation Department of Energy Application Matrix 2009

Grant Title	Puget Sound (\$15 Million) Clean Cities	National Application (\$75 Million) Better Place	National Application (\$150 Million) Ford	National Application (\$200 Million) ETEC / Nissan / Idaho Nat'l Labs
DOE Grant Program	Clean Cities Petroleum Reduction Technologies	Transportation Electrification	Transportation Electrification	Transportation Electrification
Vehicles Provided to the County	Candidate List of Vehicles (mix TBD): 13 Compressed Natural Gas light duty vehicles, 4 Electric carts, 24 Hybrid pick-ups and SUVs 25 Hybrid passenger sedans 28 Ford Azure 15 passenger plug-in hybrid mini-buses for paratransit service	A combination of up to 10 Ford Azure 15 passenger plug-in hybrid mini-buses for paratransit operations and/or Ford Escape prototype plug-in hybrid vehicles for commuter van service. \$60,000 each base cost, \$125,000 incremental cost for the Azure mini-buses.	15 Ford Azure 15 passenger plug-in hybrid mini-buses for paratransit operations. Other vehicles will be included and are subject to negotiation. Possibilities include Ford Transit Connect electric work vans or Ford Focus prototype electric sedans Ford Escape prototype plug-in hybrid vehicles to be used by PSE. Ford Azures are provided free to the County. The County and the cities of Bellevue, Renton, Sammamish and Issaquah will dedicate parking stalls to install electric vehicle charging stations to support vehicles.	Up to 74 Nissan 5 passenger electric vehicles Approx. \$27,000 per vehicle
Cost	Compressed Natural Gas sedans - \$13,000 each base, \$13,000 each incremental cost Electric carts - \$7,468 each base, \$8,132 each incremental cost Hybrid pick-ups and SUVs - Average \$26,500 each base, average \$12,750 incremental cost Passenger sedans - Average \$26,650 each base cost, Average \$6,550 each incremental cost Ford Azure mini-buses - \$60,000 each base cost, \$125,000 each incremental cost.			

Grant Title	Puget Sound (\$15 Million) Clean Cities Technologies	National Application (\$75 Million) Better Place	National Application (\$150 Million) Ford	National Application (\$200 Million) ETEC / Nissan / Idaho Nat'l Labs
DOE Grant Program	Clean Cities Petroleum Reduction	Transportation Electrification	Transportation Electrification	Transportation Electrification
	Plug-in infrastructure could be installed at Van Distribution Center and at Veolia van yards (paratransit contractors) for Ford Azure vehicles. CNG fueling stations will be installed regionally through this proposal (and possibly at a KC location to be determined). Approximately 30 charging stations would be installed to service the Azure vehicles at the VDC and Veolia van yards. Approximately 1 CNG fueling station would be installed on or near County facilities.	Potential sites include King Street Center, KC Van Distribution Center, Burien TOD, ST Tukwila Sounder Station, Overlake TOD, Northgate Park and Pool lot, Aurora Village Transit Center. Approximately 2 battery exchange stations and a total of approximately 50 charging stations would be located at these facilities.	Potential KC sites include KC Van Distribution Center, Burien TOD, ST Tukwila Sounder Station, Issaquah Highlands P&R, Veolia Van Yards, Auburn P&R, Federal Way Transit Center, Aurora Village Transit Center, Eastgate P&R, Redmond P&R, Kenmore P&R, Brickyard P&R, South Kirkland P&R. A total of approximately 200 total charging stations would be installed at these and other locations.	Potential sites include King Street Center, KC Van Distribution Center, Burien TOD, ST Tukwila Sounder Station, Overlake TOD, Northgate Park and Pool lot, Aurora Village Transit Center or other park and ride locations. A total of approximately 150 to 175 charging stations would be installed at County and private locations as a result of this proposal.
Charging Station / Infrastructure	Locations	Better Place would pay for the installation of charging stations, King County would provide space for the stations. A utility partner could help pay for the cost of bringing power to the sites.	Puget Sound Energy will bring power to the site. Cost of infrastructure would be paid for with funds from other proposals, or as a fall-back, with KC Paratransit funds not used on vehicles.	Ecotec will provide a selection of charging station options and will pay for installation of infrastructure. Can be in a public or private location. Cost of electricity will be used as match for the grant.
	Connect Inf. Cost	Better Place would operate and maintain the charging stations, pay a lease to the County for battery exchange station locations and possibly charging station locations.	King County would operate and maintain charging stations. Reservation system operation could create income stream to the County, but there is a cost of operation.	King County would operate and maintain charging stations probably through a third party on contract. Reservation system operation could create income stream to the County, but there is a cost of operation but would require initial investment and maintenance. Charging stations on private property would be responsibility of land-owner.
	O&M			
	City	Potential partner for bringing power to the charging station sites.	PSE to bring power to the charging station sites.	land/space City Light to bring power to the charging station sites.
	Utilities	Land/Parking space	Land/space, other grant funding.	100% cost share of vehicles
	KC	Base cost of vehicles		
	State	Incremental cost of vehicles and charging stations with funding overmatch for vehicles used to pay the 50% cost share of charging stations		State Vanpool money will be used to pay the cost of the electric vans 100% of the cost of charging infrastructure
Grant Shares	DOE	King County, Better Place	All DOE funding goes to Ford who provides Vehicles at no charge to KC.	
Partners	King County, Puget Sound Clean Cities Coalition	King County, Better Place	King County, Ford, PSE, Nu Element or other	Ecotec, City of Seattle, Idaho National Labs, Nissan, King County.



King County

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May 8, 2009

Nancy Gioia
Ford Motor Company
15050 Commerce Drive N, Office 1001
Dearborn, MI 48120

Dear Ms. Gioia,

King County confirms its commitment to partner with Ford Motor Company on a proposal in response to U.S. Department of Energy Funding Opportunity DE-FOA-0000028, Transportation Electrification, Area of Interest 3.

In support of the Ford proposal, King County intends to dedicate \$6.5 million worth of parking stalls and electric vehicle charging infrastructure for the advancement of transportation electrification technologies. Dedication of the stalls to the installation of electric vehicle charging infrastructure to meet this commitment will take place over the 36 month period outlined in the proposal and is contingent upon the regulatory approval for and participation of Puget Sound Energy in this proposal. King County will collaborate with Ford Motor Company in the vehicle data collection and demonstration initiatives outlined in the proposal, including integration of vehicle and electric charging infrastructure and grid interaction that promote the transition to electrification. Key elements of our commitment include:

- Dedication of up to 200 parking stalls at various locations around the County to include vehicle electrification infrastructure;
- Cover O&M costs for operation of the vehicles during the three year period of the proposal;
- Support vehicle data collection and analysis by Ford
- Inform and educate the public about the project and the benefits of vehicle electrification.

This investment will contribute 100% to the project's total cost (or cost sharing 100%) and is comprised of non-federal sources. King County agrees to provide the DOE with the appropriate detail to support relevant audit (e.g. flow-down requirements) details under this proposal. King County is confident that this support for the Ford Motor Company proposal will help deliver its objectives to accelerate the development and advancement of advanced electric drive vehicles.

Ms. Nancy Gioia


May 8, 2009

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If Ford receives a grant from the DOE and agrees to the terms set out in this letter, Ford and King County will negotiate the terms of a definitive written agreement consistent with these business terms and to include such other provisions as are typical in transactions of this type and which King County and Ford agree are appropriate. Terms will include mutually negotiated conditions with the DOE for intellectual property and asset ownership following the time period of this program. This commitment and any expenditure of local funds are subject to King County Council approval. If a grant is provided by the DOE to fund this proposal, King County will place the Ford vehicles in service and will work with Ford to assess their performance.

We look forward to the opportunity to collaborate with Ford and the DOE on this promising initiative to accelerate transportation electrification.

Sincerely,

A handwritten signature in black ink, appearing to read "Kurt Triplett". The signature is written in a cursive style with a large, stylized "K" and "T".

Kurt Triplett

Interim King County Executive

cc: Harold Taniguchi, Director, King County Department of Transportation
Pam Bissonette, Interim Director, King County Office of Strategic Planning and
Performance Management



King County

Ron Sims

King County Executive

401 Fifth Avenue, Suite 800
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April 27, 2009

Shai Agassi, President and CEO
Better Place, Inc.
1070 Arastradero Road, Suite 220
Palo Alto, CA 94304

Dear Mr. Agassi:

It is with great pleasure that I write this letter in strong support of Better Place's application for a Department of Energy (DOE) Transportation Electrification Grant to demonstrate and deploy electric vehicles and electric vehicle infrastructure in King County. We have been in discussions with Better Place for more than six months, and firmly believe that Better Place's proposed project will advance the introduction of electric drive vehicles, transportation electrification, and supporting infrastructure technologies.

The electrification of transportation is a key area of focus for King County, and a core element of our broader sustainability initiative. Electric vehicles, when implemented on a wide-spread basis as the Better Place model enables, can dramatically reduce greenhouse gas emissions and critical pollutants, can reduce our dependence on oil, and can meaningfully aid our state's and the nation's economic recovery by creating and sustaining the next generation of 'green-collar' infrastructure jobs.

We look forward to working with Better Place to successfully implement this project in King County and the broader Puget Sound region. We believe this demonstration project is just the first step in making King County a national, and indeed global leader, in vehicle electrification.

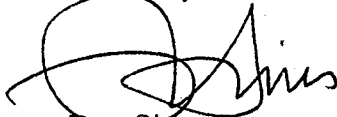
Working with the Better Place team, King County has identified a number of dimensions along which our respective organizations will collaborate in the execution of this demonstration project. While significant progress has been made to date, all of the following elements of this proposal are subject to completion of final design and agreement on legally binding terms and conditions:

1. **ELECTRIFICATION OF COUNTY PARKING FACILITIES:** King County owns and operates a number of parking lots, parking garages, and park and ride facilities throughout the Puget Sound region. We will work with Better Place to install EV charge spots in parking facilities throughout the county.
2. **SITING BATTERY EXCHANGE STATIONS:** King County's real estate and facilities team has already begun identifying potential locations around the county to locate Better Place battery switch stations. Possible locations include, but are not limited to, the following:
 - South Jackson Street King County parking lot;
 - Northgate Park and Ride Lot;
 - Redmond Park and Ride Lot;
 - Redmond VanPool Distribution Center;
 - Burien Park and Ride Transit Oriented Development; and
 - Others.
3. **METRO VANPOOL:** King County administers the largest publicly owned and operated VanPool and VanShare program in the nation. In 2008, there were more than 1,200 commuter vans in operation by years end. King County will incorporate a select number of Better Place electric vehicles into its VanPool fleet as part of this pilot project. In particular, we will identify VanPools undertaking longer commutes, demonstrating that even long distance commuting can be accommodated by electric vehicles when the right infrastructure is in place.

We understand that the DOE is seeking to support projects that accelerate the market introduction and penetration of advanced electric drive vehicles. Together with Better Place, King County has the opportunity to demonstrate and deploy these innovative technologies and accelerate our regional and national development of an electrified transportation system.

Thank you for your consideration. We look forward to working with Better Place, and strongly encourage the Department of Energy to support their application.

Sincerely,



Ron Sims
King County Executive



King County

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May 13, 2009

Secretary Steven Chu
United States Department of Energy
National Energy Technology Laboratory
3610 Collins Ferry Road
Morgantown, WV 26507

Dear Secretary Chu,

Please accept this letter as King County's strong support for the proposal submitted by Electric Transportation Engineering Corporation in response to the United States Department of Energy Funding Opportunity Announcement DE-FOA-0000028.

King County concurs with the information provided in the proposal and offers its support for the deployment of Nissan electric vehicles in King County and the participating cities within its boundaries. King County intends to acquire up to 74 Nissan electric vehicles, as well as necessary electric charging infrastructure, through this proposal. The vehicles will operate in the County's fleet to provide energy efficient transportation for its employees and in the County's commuter van program serving our public customers.

King County's support will be coordinated through the Electric Transportation Engineering Corporation as the lead proposer. Thank you for your consideration.

Sincerely,


Kurt Triplett
Interim King County Executive

cc: Harold Taniguchi, Director, King County Department of Transportation
Pam Bissonette, Interim Director, King County Office of Strategic Planning and
Performance Management

