# FTA FY 2011 Sustainability Awards

<table>
<thead>
<tr>
<th>State</th>
<th>Program</th>
<th>Transit Provider</th>
<th>Project Title</th>
<th>Project Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZ</td>
<td>TIGGER</td>
<td>Regional Public Transportation Authority (Phoenix)</td>
<td>Electric Fan Retrofit</td>
<td>RPTA will retrofit as many as 70 transit buses with an innovative electric engine cooling fan system. The retrofit is a cost-effective solution for energy savings.</td>
<td>$1,349,715</td>
</tr>
<tr>
<td>AZ</td>
<td>TIGGER</td>
<td>Regional Public Transportation Authority (Phoenix)</td>
<td>METRO Solar and Shade Canopy System</td>
<td>RPTA will install approximately 142,000 square feet of shade and solar panels over existing rail tracks and yard at METRO's operations and maintenance facility, which will generate enough electricity to satisfy nearly 100 percent of the building's peak power needs.</td>
<td>$2,715,000</td>
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<tr>
<td>AZ Total</td>
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<td>$4,064,715</td>
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<tr>
<td>CA</td>
<td>TIGGER</td>
<td>Long Beach Public Transportation Company</td>
<td>Long Beach Transit Zero Emission/All Electric Bus Pilot Project</td>
<td>Long Beach Public Transportation Company will replace 10 aging diesel buses with zero emission, all electric buses on a heavily traveled, highly visible, popular circulator route.</td>
<td>$6,700,000</td>
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<tr>
<td>CA</td>
<td>TIGGER</td>
<td>SunLine Transit Agency (Thousand Palms)</td>
<td>American Fuel Cell Hybrid Buses for SunLine Transit</td>
<td>TIGGER funding will assist Sunline in building two fuel cell hybrid buses, bringing the total number of such buses in its fleet to five. The project will improve upon the process for building a Buy America-compliant fuel cell hybrid bus, introduced under the American Fuel Cell Bus Program. This project will assist in mainstreaming this technology by focusing on the reduction of assembly costs. and utilizing Sunline's existing hydrogen fueling and maintenance capabilities.</td>
<td>$4,917,876</td>
</tr>
<tr>
<td>CA</td>
<td>Clean Fuels</td>
<td>Long Beach Public Transportation Company</td>
<td>Replace aging diesel buses with alternatively fueled Gasoline/Electric Hybrid coaches.</td>
<td>Long Beach Public Transportation Company will replace aging buses with gasoline/electric hybrid buses that demonstrates an emerging technology. In addition to fuel efficiency gains from this project, the operating service area will benefit from a reduction in transportation-related pollutants.</td>
<td>$2,000,000</td>
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<tr>
<td>State</td>
<td>Clean Fuels</td>
<td>Project Description</td>
<td>Benefits</td>
<td>Funding</td>
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<tr>
<td>CA</td>
<td>Monterey-Salinas Transit</td>
<td>Purchase/replace gas mini-buses with new diesel hybrid electric mini-buses. In addition to fuel efficiency gains from this project, the operating service area will benefit from a reduction in transportation-related pollutants.</td>
<td>$788,308</td>
<td>CA Total $14,406,184</td>
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<tr>
<td>CT</td>
<td>Connecticut Department of Transportation</td>
<td>Procurement of Stationary Fuel Cell by the Connecticut Department of Transportation for Installation at the CTTransit New Haven Division Bus Maintenance Facility</td>
<td>ConnDOT will purchase a stationary fuel cell for the CTTransit New Haven Division Bus maintenance facility, which will provide up to 3.3 million kilowatt-hours per year, or approximately 59 percent of the facility's annual electric use.</td>
<td>CT Total $5,702,298</td>
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<tr>
<td>FL</td>
<td>City of Gainesville</td>
<td>Procure HE Biodiesel buses and electric cooling system conversions for existing biodiesel buses</td>
<td>The City of Gainesville will replace buses in its fleet that have met their useful lives with hybrid-electric biodiesel buses. As part of this project, the city will also retrofit existing biodiesel buses with electric cooling systems that can increase fuel efficiency. In addition to fuel efficiency gains from this project, the operating service area will benefit from a reduction in transportation-related pollutants.</td>
<td>FL Total $3,000,000</td>
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<tr>
<td>FL</td>
<td>South Florida Regional Transportation Authority</td>
<td>Tri-Rail's Pompano Beach Green Station Demonstration Project</td>
<td>The Pompano Beach Green Station Demonstration will be an innovative demonstration project that will showcase Tri-Rail’s first green, LEED certified, sustainable station, which will generate more than 100 percent of its energy demand through solar panels.</td>
<td>FL Total $5,713,549</td>
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<td>FL</td>
<td>Hillsborough Area Regional Transit Authority (Tampa)</td>
<td>Compressed Natural Gas (CNG) Fueling Station and Maintenance Facility Modifications</td>
<td>HART will design and build a new CNG fueling station to support the transition of its fixed route fleet to CNG power. HART will also upgrade its maintenance facility.</td>
<td>FL Total $2,320,000</td>
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## FTA FY 2011 Sustainability Awards

<table>
<thead>
<tr>
<th>FL Total</th>
<th>GA Clean Fuels</th>
<th>Purchase of hybrid-electric buses</th>
<th>Funds will be used to purchase four hybrid-electric buses as replacement buses for buses that have reached their useful life. This project was selected because the operating service area meets the clean fuels program's objectives.</th>
<th>$11,033,549</th>
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<tr>
<th>GA Total</th>
<th>$1,677,312</th>
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| IA Clean Fuels | Des Moines Area Regional Transit Authority | Hybrid bus upgrade | DART will use funds to purchase hybrid buses. This project was selected because the operating service area meets the clean fuels program's objectives. | $1,125,000 |
| IA Total | $1,125,000 |

| IL Clean Fuels | Illinois Department of Transportation | Purchase of replacement hybrid-electric vehicles | The Illinois Department of Transportation, on behalf of a number of transit agencies throughout the state, will replace diesel buses that have met their useful lives with hybrid-electric vehicles. In addition to fuel efficiency gains from this project, the operating service area will benefit from a reduction in transportation-related pollutants. | $5,000,000 |
| IL TIGGER | Commuter Rail Division of the RTA d/b/a Metra (Chicago) | Locomotive Energy Efficiency Project in Northeast Illinois - A Non-Attainment Region | Metra will replace main engine-driven generators on ten of its passenger locomotives by introducing innovative anti-idle technology that will reduce energy use and harmful emissions. These locomotives operate on Metra's Rock Island District Milwaukee District. | $2,208,000 |
| IL Clean Fuels | Springfield Mass Transit District | Replace the Compressed Natural Gas (CNG) Fueling Station | The Springfield Mass Transit District will replace its aging CNG refueling facility, which will also allow for future expansion of its CNG fleet. | $1,000,000 |
| IL Total | $8,208,000 |

<p>| IN Clean Fuels | City of Evansville--Metropolitan Evansville Transit System | Purchase 11 Mini-Hybrid Electric Cooling Fan Systems | City of Evansville Metropolitan Evansville Transit System will purchase eleven mini-hybrid electric cooling fan systems. The retrofit cooling systems replacement will increase fuel economy | $175,186 |
| IN Total | $175,186 |</p>
<table>
<thead>
<tr>
<th>State</th>
<th>Clean Fuels</th>
<th>Project Details</th>
<th>Project Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>MA</td>
<td>MA Clean Fuels</td>
<td>Montachusett Regional Transit Authority (North County Area)</td>
<td>Purchase Hybrid-Electric Buses</td>
<td>MART will purchase additional hybrid-electric buses to replace older buses. In addition to fuel efficiency gains from this project, the operating service area will benefit from a reduction in transportation-related pollutants.</td>
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<tr>
<td>MA</td>
<td>MA Total</td>
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<td>$979,400</td>
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<tr>
<td>MD</td>
<td>Maryland Clean Fuels</td>
<td>Montgomery County Department of Transportation</td>
<td>Purchase hybrid and CNG buses</td>
<td>Montgomery County, as a subrecipient of the Maryland DOT, will replace buses that are beyond their useful lives with hybrid-electric and compressed natural gas buses. In addition to fuel efficiency gains from this project, the operating service area will benefit from a reduction in transportation-related pollutants.</td>
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<td>MD</td>
<td>MD Total</td>
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<td>$4,610,866</td>
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<td>MI</td>
<td>Michigan Clean Fuels</td>
<td>Ann Arbor Transportation Authority</td>
<td>Hybrid-electric replacement buses - incremental cost of hybrid-electric drive only</td>
<td>This project will allow Ann Arbor Transportation Authority to fund the incremental cost of replacing diesel buses that have met their useful lives with hybrid-electric buses. In addition to fuel efficiency gains from this project, the operating service area will benefit from a reduction in transportation-related pollutants.</td>
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<td>MI</td>
<td>MI Total</td>
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<td>$2,079,000</td>
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<td>ND</td>
<td>North Dakota Clean Fuels</td>
<td>City of Fargo</td>
<td>Replace 35-foot buses</td>
<td>The City of Fargo will replace 35-foot buses with hybrid vehicles. In addition to fuel efficiency gains from this project, the operating service area will benefit from a reduction in transportation-related pollutants.</td>
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<td>ND</td>
<td>ND Total</td>
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<td>$1,029,200</td>
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<td>State</td>
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<td>Agency</td>
<td>Effort</td>
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<tr>
<td>NJ</td>
<td>Clean Fuels</td>
<td>New Jersey Transit Corporation</td>
<td>Efficiency Upgrade of Compressed Natural Gas Fill Station</td>
<td>New Jersey Transit will use funds to complete efficiency upgrades to its CNG fill station in Howell, New Jersey.</td>
</tr>
<tr>
<td>NY</td>
<td>Clean Fuels</td>
<td>Capital District Transportation Authority (Albany)</td>
<td>Purchase Hybrid Electric Vehicles</td>
<td>Capital District Transportation Authority will replace buses in its fleet that have met their useful lives with hybrid-electric buses. In addition to fuel efficiency gains from this project, the operating service area will benefit from a reduction in transportation-related pollutants.</td>
</tr>
<tr>
<td>NY</td>
<td>TIGGER</td>
<td>Rochester-Genesee Regional Transportation Authority</td>
<td>Boiler Replacement, Unit Heater Efficiency, HVAC Controls and Pavement Ice Control</td>
<td>RGRTA will use funds for the following energy-saving measures: replacement of two 35-year-old boilers in its operations building with multiple condensing-type boilers; replacement of old heaters in its service building with high-efficiency gas-fired condensing units; installation of temperature and carbon monoxide sensors and controllers in its operations and service buildings; and installation of a pavement ice control system for a concrete bus driveway to manage freezing pavement during cold months.</td>
</tr>
<tr>
<td>OH</td>
<td>Clean Fuels</td>
<td>Central Ohio Transit Authority (Columbus)</td>
<td>McKinley Avenue CNG Fueling Station</td>
<td>COTA will renovate its McKinley Avenue CNG fueling station, increasing its CNG capabilities and hastening the agency’s transition to CNG-fueled vehicles.</td>
</tr>
<tr>
<td>OH</td>
<td>Clean Fuels</td>
<td>Southwest Ohio Regional Transit Authority (Cincinnati)</td>
<td>Replace 1998 40-foot diesel buses with innovative EMP &quot;Mini Hybrid&quot; Buses.</td>
<td>SORTA will replace diesel buses in its fleet that have met their useful lives with innovative mini-hybrid buses. In addition to fuel efficiency gains from this project, the operating service area will benefit from a reduction in transportation-related pollutants.</td>
</tr>
<tr>
<td>OR</td>
<td>Clean Fuels</td>
<td>(Portland)</td>
<td>Purchase Hybrid Buses</td>
<td>TriMet will use funds for the incremental cost of replacing diesel buses with hybrid electric buses. In addition to fuel efficiency gains from this project, the operating service area will benefit from a reduction in transportation-related pollutants.</td>
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<tr>
<td>OR Total</td>
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<tr>
<td>PA</td>
<td>Clean Fuels</td>
<td>Southeastern Pennsylvania Transportation Authority (Philadelphia)</td>
<td>SEPTA’s 40-Foot Hybrid Bus Purchase Project: Incremental cost to replace 40-foot diesel buses that have exceeded their useful life with hybrid buses</td>
<td>SEPTA will use funds for the incremental cost of replacing diesel buses with hybrid buses. In addition to fuel efficiency gains from this project, the operating service area will benefit from a reduction in transportation-related pollutants.</td>
</tr>
<tr>
<td>PA</td>
<td>Clean Fuels</td>
<td>Port Authority of Allegheny County (PAAC)</td>
<td>Port Authority of Allegheny County (PAAC) CNG Fueling Station Public-Private Partnership</td>
<td>PAAC will use funds to leverage private investment to construct a natural gas fueling station at its West Mifflin depot. The overall project will include a fueling station, garage modification, and the incremental cost of CNG buses. The investment in CNG operations is a critical means of enhancing the environment and improving local quality of life, while decreasing PAAC's operating costs and increasing overall economic efficiency.</td>
</tr>
<tr>
<td>PA</td>
<td>Clean Fuels</td>
<td>Lehigh and Northampton Transportation Authority</td>
<td>Purchase Hybrid Buses</td>
<td>LANTA will replace diesel powered buses with additional hybrid-electric diesel buses. In addition to fuel efficiency gains from this project, the operating service area will benefit from a reduction in transportation-related pollutants.</td>
</tr>
<tr>
<td>PA</td>
<td>TIGGER</td>
<td>Southeastern Pennsylvania Transportation Authority (Philadelphia)</td>
<td>SEPTA's Market-Frankford Line: A New Model for Wayside Energy Storage</td>
<td>SEPTA will install a new energy storage device at high-demand substations on the same line and partner with a smart grid service provider to maximize energy savings, enable technological comparability and increase economic value.</td>
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</tbody>
</table>
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<tr>
<th>State</th>
<th>Clean Fuels</th>
<th>Project Details</th>
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<tbody>
<tr>
<td><strong>PA</strong></td>
<td>Clean Fuels</td>
<td>Construction of RVT’s CNG Fueling Facility and Purchase CNG Replacement Transit Vehicles</td>
<td>$3,500,000</td>
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<tr>
<td><strong>PA</strong></td>
<td>Erie Metropolitan Transit Authority</td>
<td>Replace diesel vehicles with CNG vehicles</td>
<td>$2,000,000</td>
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<tr>
<td><strong>PA Total</strong></td>
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<td><strong>$18,010,000</strong></td>
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<tr>
<td><strong>SC</strong></td>
<td>TIGGER</td>
<td>Seneca Energy &amp; GHG Reduction Through Bus Electrification</td>
<td>$4,118,000</td>
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<tr>
<td><strong>SC Total</strong></td>
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<td></td>
<td><strong>$4,118,000</strong></td>
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<tr>
<td><strong>TN</strong></td>
<td>TIGGER</td>
<td>CARTA Wayside Inductive Power Transfer System Applied to 30-foot Electric Transit Buses</td>
<td>$2,502,400</td>
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<tr>
<td><strong>TN Total</strong></td>
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<td><strong>$2,502,400</strong></td>
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<tr>
<td><strong>TX</strong></td>
<td>Clean Fuels</td>
<td>Replacement of 35’ Citibus’ 1996 Novabuses</td>
<td>$2,000,000</td>
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<tr>
<td><strong>TX</strong></td>
<td>TIGGER</td>
<td>On-line Electric Vehicle Bus Project</td>
<td>$1,906,908</td>
</tr>
</tbody>
</table>

The City of Lubbock/Citibus will replace buses in its fleet that have met their useful lives with hybrid-electric buses. In addition to fuel efficiency gains from this project, the operating service area will benefit from a reduction in transportation-related pollutants.

The City of McAllen will use TIGGER funds to implement electric bus technology on a portion of its fixed route fleet to reduce energy consumption and greenhouse gas emissions. This project will demonstrate a cost effective means of converting the existing diesel fleet to electric vehicles as well as the overall effectiveness of using en-route charging technology to create an effective “electronic roadway.”
<table>
<thead>
<tr>
<th>State</th>
<th>Program</th>
<th>Project Description</th>
<th>Benefits</th>
<th>Funding</th>
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<tbody>
<tr>
<td>TX</td>
<td>Clean Fuels</td>
<td>City of El Paso: Replacement of CNG Paratransit Unleaded Fuel Vehicles</td>
<td>The City of El Paso will replace gasoline-fueled paratransit vehicles in its fleet that have met their useful lives with vehicles powered by natural gas. In addition to fuel efficiency gains from this project, the operating service area will benefit from a reduction in transportation-related pollutants.</td>
<td>$1,500,000</td>
</tr>
<tr>
<td>TX</td>
<td>Clean Fuels</td>
<td>VIA Metropolitan Transit (San Antonio): Purchase compressed natural gas 60-foot buses for bus rapid transit</td>
<td>VIA will purchase compressed natural gas buses to replace buses. This project was selected because the operating service area meets the clean fuels program's objectives.</td>
<td>$3,000,000</td>
</tr>
<tr>
<td>TX</td>
<td>Total</td>
<td></td>
<td>Total $8,406,908</td>
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</tr>
<tr>
<td>UT</td>
<td>TIGGER</td>
<td>Utah Transit Authority: University of Utah Campus Shuttle Electrification</td>
<td>The University of Utah and UTA will launch the first U.S. demonstration of Wireless Power Transfer technology, which allows vehicles to be charged from under the roadbed during the course of their daily operations.</td>
<td>$2,692,000</td>
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<tr>
<td>UT</td>
<td>Total</td>
<td></td>
<td>Total $2,692,000</td>
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<tr>
<td>VA</td>
<td>TIGGER</td>
<td>Town of Blacksburg: Blacksburg Transit Dynamic Bus Routing and Scheduling Study</td>
<td>The Town of Blacksburg will utilize TIGGER funding to implement innovative computing and communications systems that will allow dynamic scheduling and rerouting of buses to better serve the riding public while at the same time decreasing operating expenses and adverse environmental impacts. Real-time data on bus occupancy will also be used to dynamically adjust traffic signal preemption in order to further enhance system reliability and resource efficiency.</td>
<td>$1,858,680</td>
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<tr>
<td>VA</td>
<td>Total</td>
<td></td>
<td>Total $1,858,680</td>
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<tr>
<td>VT</td>
<td>TIGGER</td>
<td>Vermont Agency of Transportation: STSI Transit Facility Energy-Efficient Improvements</td>
<td>Stagecoach Transportation Services, Inc. seeks to reduce the energy consumption of its administrative and vehicle facilities located in Randolph, VT. Improvements in the energy efficiency of these buildings will result in financial savings that are much needed in other areas of operation.</td>
<td>$95,769</td>
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<tr>
<td>State</td>
<td>Region</td>
<td>Project Description</td>
<td>Project Details</td>
<td>Award Amount</td>
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<tr>
<td>WA</td>
<td>TIGGER</td>
<td>Chelan - Douglas Public Transportation Benefit Area</td>
<td>Link Transit - Five 100% Battery Electric Transit Vehicles and Associated Charging Stations</td>
<td>$95,769</td>
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<tr>
<td>WA</td>
<td>TIGGER</td>
<td>Sound Transit (Seattle)</td>
<td>Central Link Light Rail Onboard energy storage</td>
<td>$2,500,000</td>
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<tr>
<td>WA</td>
<td>Clean Fuels</td>
<td>Intercity Transit (Thurston County)</td>
<td>Purchase Hybrid BioDiesel-Electric Replacement Buses</td>
<td>$1,583,085</td>
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<td>WA</td>
<td>Clean Fuels</td>
<td>City of Longview</td>
<td>Purchase 35-foot clean fuel biodiesel buses</td>
<td>$1,500,000</td>
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<tr>
<td>WA</td>
<td>Clean Fuels</td>
<td>Stillaguamish Tribe of Indians</td>
<td>Purchase additional hybrid sedans</td>
<td>$1,120,500</td>
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<tr>
<td>WA</td>
<td>Clean Fuels</td>
<td>Stillaguamish Tribe of Indians</td>
<td>Purchase additional hybrid sedans</td>
<td>$69,720</td>
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<tr>
<td>WA Total</td>
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<td>$6,773,305</td>
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<td>Grand Total</td>
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