



Greenhouse Gas Emissions Reduction Mitigation Grant Program Final Construction Report

Note to Grant Recipients: This report will supply the Port with information about the completion of your GHG Grant project. We are interested to know about project successes, problems, and measures that you will take to ensure the project meets or exceeds the useful life described in your grant application. Now that your project is finished, we want to know what kind of metrics you will use, and the frequency of those measurements, to determine the effectiveness of your project in reducing greenhouse gas emissions. Use as much space as you need for each field; there is no page limit. For more information, please contact the Port's GHG Grant program manager at (562) 283-7100.

| General Information | |
|------------------------------------------|---------------------------------------|
| Grant Recipient Organization Name | Miller Children's Hospital Long Beach |
| POLB Contract Number | HD – 8133 |
| Grant Project Title | Electric Vehicle Purchasing Program |

| Expenditures | |
|------------------------------------------------|-----------------------------------------------------------------------------|
| Total Grant Award | \$116,900 |
| Total POLB Grant Funds Expended | \$ 71,155.71 |
| Total POLB Grant Funds Invoiced to Date | \$ 71,155.71 |
| Total Project Cost | \$ 71,155.71 |
| Will you be applying for a rebate? | <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, amount: |

| Project Completion Evaluation | |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| What was the project completion date? | October 25, 2013 |
| On a scale of 1 to 10, how satisfied were you with the project implementation? | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input checked="" type="checkbox"/> 10 With 10 being extremely satisfied. |
| Were the project costs the same as what you expected? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, they were less <input type="checkbox"/> No, they were more |
| Would you recommend this type of project to an agency or organization similar to yours? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |



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| <p>Describe any significant problems you had in implementing this project. What were the notable successes?</p> | <p>Project staff at POLB have been wonderful to work with.</p> <p>It was determined that the emergence of the Toyota RAV-EV on the market would alleviate concerns about accessibility and incremental weather that were factors in use of the GEMs and Leafs. For this reason, we requested and received approval for a project amendment to purchase (2) Toyota RAV-EVs in place of (2) Nissan Leafs and (2) GEMs as the RAV-EVs provide easier vehicle access for our patient population, covered vehicle for incremental weather conditions, and extended charge time for longer running miles before requiring recharging periods (Christine Houston, 9/25/2013). An amendment was also requested and approved to expand the campus shuttle route to include facilities at the Community Hospital Long Beach campus as well Long Beach Memorial/Miller Children’s Hospital campus. (Janna Watanabe, 08/13/2015).</p> <p>Successes: Early project data reflects positive reduction in use of gasoline/fossil fuel and CO2 carbon emissions by replacing 3 older model fossil fuel burning vans with the 2 electric vehicle vans based on data calculations using www.fueleconomy.gov website.</p> |
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Metrics and Measurements

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| <p>What metric will you use to determine the effectiveness of your project in reducing, capturing, or avoiding GHG emissions? How will it be calculated?</p> | <p>Based on www.fueleconomy.gov website calculations: Reduction in the use of fossil fuel (gasoline) by replacing 2 gasoline burning vans with 100% electric vehicles Reduction in CO2 emissions measured in metric tons</p> |
| <p>How frequently will you be collecting these measurements?</p> | <p><input type="checkbox"/> Weekly <input checked="" type="checkbox"/> Monthly <input type="checkbox"/> Yearly <input type="checkbox"/> Other:</p> |
| <p>If your project has an educational aspect, what type of data will you collect to determine its effectiveness?</p> | <p>Pre- and Post-test of awareness of the amount of emissions that can be reduced for each gallon of fossil fuel (gasoline) saved when electric vehicle is used instead of gasoline burning engines.</p> |

Project Maintenance

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| <p>What type of maintenance will you conduct to ensure that your project produces GHG emission reduction benefits throughout or beyond the warranted or predicted life of the equipment/materials?</p> | <p>Document mileage for each electric vehicle on a monthly basis Use www.fueleconomy.gov website calculations to determine reduction in use of gasoline and CO2 emissions. Calculate expected to actual performance outcome. Determine any adjustments that may be required based on outcomes. Submit performance outcome data to POLB in quarterly reports</p> |
| <p>How often will you need to perform maintenance on your project?</p> | <p><input type="checkbox"/> Weekly <input checked="" type="checkbox"/> Monthly <input type="checkbox"/> Yearly <input type="checkbox"/> Other:</p> |



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You may attach documentation relating to the completion of your project. This documentation may include receipts, invoices, meeting sign-in sheets, photographs, fliers, media coverage, educational materials, or presentations.

See attached photographs of project Vehicle 1 and Vehicle 2

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| Report Prepared By: | Name: Sandy King | Phone: (562) 933-8019 |
| | Email: sking@memorialcare.org | Date: 9/1/2015 |



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U.S. News & World Report
"Best Hospitals"
Recognized in 11 specialties



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TOYOTA **RAV4** TOYOTA

RAV4

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