# Kick-Off Meeting

Electric School Bus and Charging Infrastructure Grants



School Bus Team
Fuels and Transportation Division
California Energy Commission



# Agenda

- 1. Introduction
- 2. Agreement Term
- 3. Scope of Work
  - Administrative Tasks (Task 1)
  - Charging Infrastructure and Utilities (Task 2-5)
  - School Bus Procurement (Task 6)
  - Scrap Replaced School Bus(es) (Task 7)
  - Data Collection (Task 8)
- 4. Agreement Changes
- 5. Budget and Major Subcontractor
- 6. Invoices and Payment Requests
- 7. Next Steps
- 8. Questions



## Agreement Term

Agreement Term = Effective Date to End Term Date.

- <u>Effective Date</u> is the date the Energy Commission executes the grant agreement.
  - Earliest date to incur reimbursable costs.
- End Term Date
  - Found in the agreement term box on signature page
  - Last date to incur costs
- All expenditures must occur within the approved term of the agreement.



# Scope of Work Task 1 Administrative

- Attend Kick-off Meeting, Task 1.1
- Critical Project Review Meetings, Task 1.2
  - Conducted after Engineering & Design of Infrastructure
- Final Meeting, Task 1.3
- Quarterly Progress Reports, Task 1.4
  - Template will be provided
- Final Report, Task 1.5
  - 12 months of data collection from bus delivery]
- Identify and Obtain Matching Funds, Task 1.6
- Identify and Obtain Required Permits, Task 1.7
- Obtain and Execute Subcontracts, Task 1.8
- Media Communications, Task 1.9
  - Exhibit A- Attachment 2



## Task 2-5 Charging Infrastructure

- Utility Company Coordination, Task 2
  - Recipients located within PG&E, So Cal Edison, and SDG&E may be eligible to receive funding for infrastructure
- Engineering and Design, Task 3
- Purchase Equipment & Execute Service Agreements, Task 4
  - EV charger at a minimum must:
    - Be level 2 smart charger
    - Have a 2 year networking agreement
    - Be capable of delivering electricity at 6.2 KW
    - Be Energy Star Certified
- Installation and Implementation, Task 5
  - Infrastructure should be installed and operating before buses are delivered

# Eligible Infrastructure Costs

- Must be directly related to and support the EV school buses funded under this Agreement. These costs can include, but are not limited to:
  - Electric vehicle supply equipment (EVSE)
  - Transformer
  - o Electric Panels
  - Energy storage equipment
  - Photovoltaic solar panels
  - Installation costs (labor and materials)
  - Utility service upgrades
  - Planning and engineering design costs
  - Network agreement with network provider
  - Extended warranties
  - Stub-outs
  - Demand management equipment
- Provide Equipment list to CAM for pre-approval





#### **Program Design**

- SDG&E provides funding and project management for charging infrastructure development
- Program goal is to support a minimum of 3,000 MD/HD vehicles (trucks, buses, forklifts, etc.)
- No limit on number of school buses in program

#### **Program Schedule**

\*schedule is preliminary

- Final Decision from California Public Utilities Commission anticipated by early 4<sup>th</sup> Quarter '19
- Full program launch by 4<sup>th</sup> Quarter '20
- Five year enrollment period after program launch
- But reach out now!



## Charge Ready Transport Program

For more information:

<u>ChargeReadyTransport@sce.com</u> sce.com/chargereadytransport







### PG&E's EV Fleet Program

#### Program highlights -

- \$236M budget over 5 years 2019-2023
- > 700+ sites supporting 6,500 new EVs
- Easier and more cost effective way to install Charging Infrastructure
  - PG&E Designs and builds TTM (To The Meter) Infrastructure
  - PG&E pays BTM (Beyond the meter) Infrastructure incentives
  - PG&E pays Schools EV Charger rebates for qualified EVSE.

#### **Program Requirements -**

- ✓ Must be a PG&E Electric Customer
- ✓ Procure 2 Med/HD EVs in first year, and at least 2 more in next 4 years
- ✓ Own or Lease the property where chargers are installed
- ✓ Operate and maintain vehicles and chargers for minimum of 10 years
- ✓ Provide data related to charger usage for a minimum of 5 years

#### **Resources and Contact information -**

https://www.pge.com/evfleet

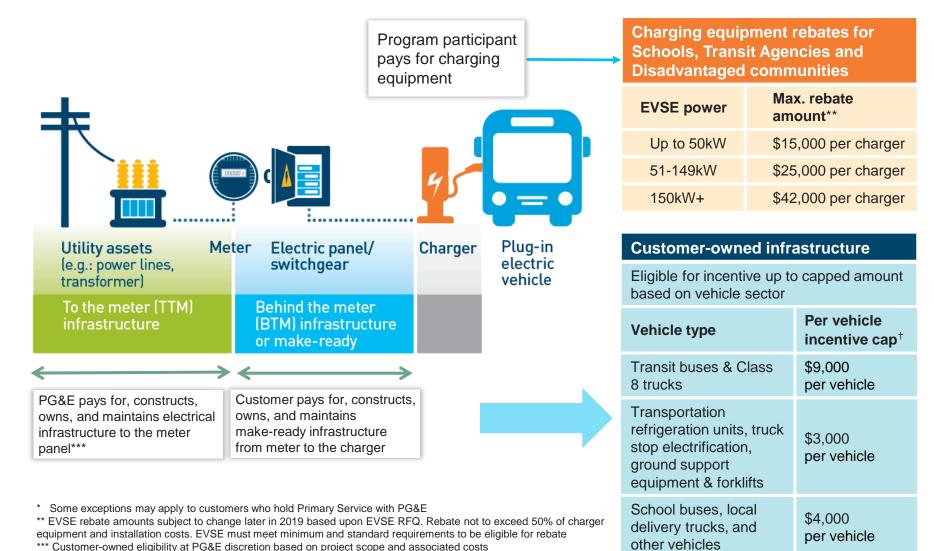
- Grant funding finding tool
- Submit an On-line Interest form to request information
- See Case studies and review Questions and Answers to the program

Tim O'Neill – EV Fleet, tko2@pge.com 209-401-8189



#### EV Fleet Ownership—Customer-owned

#### PG&E pays for infrastructure cost up to the customer meter



† Limited to 25 vehicles per site; sites with more vehicles to be considered on an individual basis



# **Utilities**

## Questions



## Task 6 Electric Bus Procurement

 Encouraged to procure bus(es) from awarded bus manufacturer/dealer from Solicitation GFO-18-604.

#### OR

- May conduct own bid to select an electric bus manufacturer/dealer.
  - Must use own established procurement procedures while adhering to all applicable state and local laws and the terms and conditions of agreement.
  - All electric buses being procured must include the specifications listed in the Scope of Work.
  - Unit bus amount listed in Agreement Budget is the maximum reimbursable amount paid per bus type.



# Task 7 Scrap Replaced School Bus(es)

- Remove from service and scrap each old diesel bus being replaced within 12 months from delivery of the new electric replacement school bus.
- Provide a copy of the Dismantler Certification Form to the CAM, completed and signed by dismantler and dated within 12 months from delivery of the new electric replacement school bus



## Task 8 Data Collection

12 months of throughput, usage, and operations data from the project including, but not limited to:

- Maximum capacity of the new charging infrastructure vs. miles per gallon of diesel bus(es) being replaced
- Duty cycle of the current fleet and the expected duty cycle of future electric bus acquisitions
- Specific jobs and economic development resulting from this project
- Vehicle miles traveled by each new school bus
- Maintenance and fueling costs for new bus(es) and infrastructure.
- Maintenance and fueling costs of replaced diesel bus(es) and infrastructure
- Number of students served by new bus(es)
- Electricity use by infrastructure



# Agreement Changes

#### Informal Amendments:

- Changes to schedule within agreement term
- Small dollar budget reallocations
- Changes to contacts
- Usually handled via email communication with CAM

#### Formal Amendments:

- SOW changes
- Term extension
- Large dollar budget reallocations
- Requires the Agreement to be formally amended and resigned by both parties



# Budget Major Subcontractor

## Major Subcontractor:

- -Receiving \$100,000 or more.
- Must complete a detailed budget.
  - Labor rates
  - Other direct operating costs
  - Indirect costs fringe and overhead
  - Profit



# Invoicing – Templates

- CAM will provide you with invoice template
- Must submit required back-up in addition to the template
- Submit Quarterly
  - Consistent with the frequency of the Progress
     Reports
  - Submit invoice electronically to CAM prior to submitting hard copy

**Energy Commission Reimbursable** 

Category	Agreen Reimbu Budget	ırsable	 irsable ses This	Expens to Date	ses Billed	% of Reimbursable Spent to Date	Reimb Balanc	ursable e
Direct Labor	\$	-	\$ 1200 m	\$	9	#DIV/0!	\$	-
Fringe Benefits	\$	<del>-</del> 20	\$ 2=0	\$	<del>-</del> 4	#DIV/0!	\$	
Travel	\$	229	\$ **	\$	<del>=</del> 9	#DIV/0!	\$	
Equipment	\$	-	\$	\$	-	#DIV/0!	\$	-
Materials/Misc.	\$	<b></b> (4)	\$ S=0	\$	<b>=</b> 0	#DIV/0!	\$	-
Subcontractors	\$	-	\$ -	\$	= 1	#DIV/0!	\$	-
Indirect Costs	\$	-	\$	\$	9	#DIV/0!	\$	-
Total	\$		\$ : <del></del>	\$	-	#DIV/0!	\$	<del></del> 87

#### **Invoicing – Templates**

- Reimbursable Expenses by Category
- Enter Budget, Expenses this Period and Cumulative Expenses Billed to Date



Percent of Budget Spent and Reimbursable Balance will automatically calculate

Reimbursement Total This Period	\$
Retention Amount:	\$
Total To Be Paid This Invoice:	\$ -

☐ Retention Release Invoice					
Retention Release Amount:	\$				
☐ Final Invoice	8				

#### Certification

I certify under penalty of perjury that this invoice is accurate, correct, and proper for payment in all respects, and reimbursement for these costs has not and will not be received from any other sources, including but not limited to a government entity contract, subcontract or other procurement method. I further certify under penalty of perjury that I have carefully reviewed the terms and conditions for this Agreement and have determined that, for work covered by this invoice, the Contractor/Recipient and all subcontractors have complied with all Agreement terms, including the requirement of compliance with public works and prevailing wage laws, which when applicable require the payment of prevailing wages to eligible workers.

C:	C A Library 1	Representative
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Date

### **Invoicing – Templates**

- Reimbursable Total will automatically calculate
- Contractor/Recipient must enter Retention amount
  - 10% of total reimbursable invoice amount unless otherwise approved in the agreement or by CAM
  - Submit School Bus invoice separately, no retention required
  - Certification and Signature



# Reimbursement for Subcontractors

- Labor rates must be based on what the employee is actually paid (not including fringe benefits or other mark-ups).
- Reimburse for actual labor and fringe rates up to the budgeted rate cap.
- Contractor/Recipient must be able to support the claimed rates in an audit.
- Materials, Miscellaneous and Equipment:
  - Invoice back-up must include receipts for each item.



## Retention

- 10% of the total reimbursement amount of each infrastructure invoice.
- Withheld until the completion of the project, data collection and final report.
- Release of retention must be invoiced separate from any reimbursement invoice.



## **Invoice Process**

Energy Commission 30-Days

- Recipient mails all products to Accounting Office.
- Accounting Office forwards to CAM who will review and either approve or dispute.
- Once approved by CAM, will be forwarded to Contracts, Grants & Loans (CGL) for administrative review.
- Once approved by CGL, CGL will forward to Accounting for payment processing with the State Controller's Office (SCO).

State Controllers Office 15-Days

- State Controller's Office receives request for payment from Energy Commission.
- SCO will send check/warrant via USPS. No electronic payments.



## **Next Steps**

- Execute and return agreements.
- Send updated Schedule of Products and Due Dates if time line has shifted.
- Provide letter documenting the permits or stating that no permits are required.
- Letter describing the subcontracts needed.
- Provide a detailed budget for all subcontracts greater than \$100,000.
- Provide a list of questions you may have regarding driving an electric bus and/or bus maintenance.



## **CAM Contact List**

Manuel Aguila 916 654-4642 Manuel.Aguila@energy.ca.gov

Diana Gonzalez 916 654-4640 Diana.Gonzalez@energy.ca.gov

Jennifer Masterson 916 654-4509 <u>Jennifer.Masterson@energy.ca.gov</u> Tomas Ortiz 916 654-5005 Tomas.Ortiz@energy.ca.gov

Sarah Williams 916 654-9866 Sarah.K.Williams@energy.ca.gov

Michelle Vater 916 654-4831 Michelle.Vater@energy.ca.gov



## School e-Bus Workshop

### Aug 30, 2019 9am-12pm - Rosenfeld Hearing Room

#### **Robin Goodhand – EPIC Program**

- Share lessons learned from two EPIC funded eBus projects
  - Diesel vs electric what to expect
  - Driving an eBus 101,
  - The importance of driver energy efficiency,
  - eBus driver training resources
  - caring for your eBus,
  - maintenance requirements,
  - technician training resources
  - battery health and battery state of charge
  - smart charging and saving electricity bills
  - Added value mobile energy storage and e-Bus vehicle-to-grid potential opportunities
  - eBus owner resources and support forums
  - collaborative opportunities
- Are there any schools that can share their experiences with implementation of previous eBus projects?
- Are there any specific topics, questions or themes you would like the workshop to cover?

# Questions

