



Fleets Programs Proposal

August 10, 2020

Fleets Program: Request

Program: Fleet program, including Technical Assistance, Funding, and Vehicle to Building Resiliency Demonstration

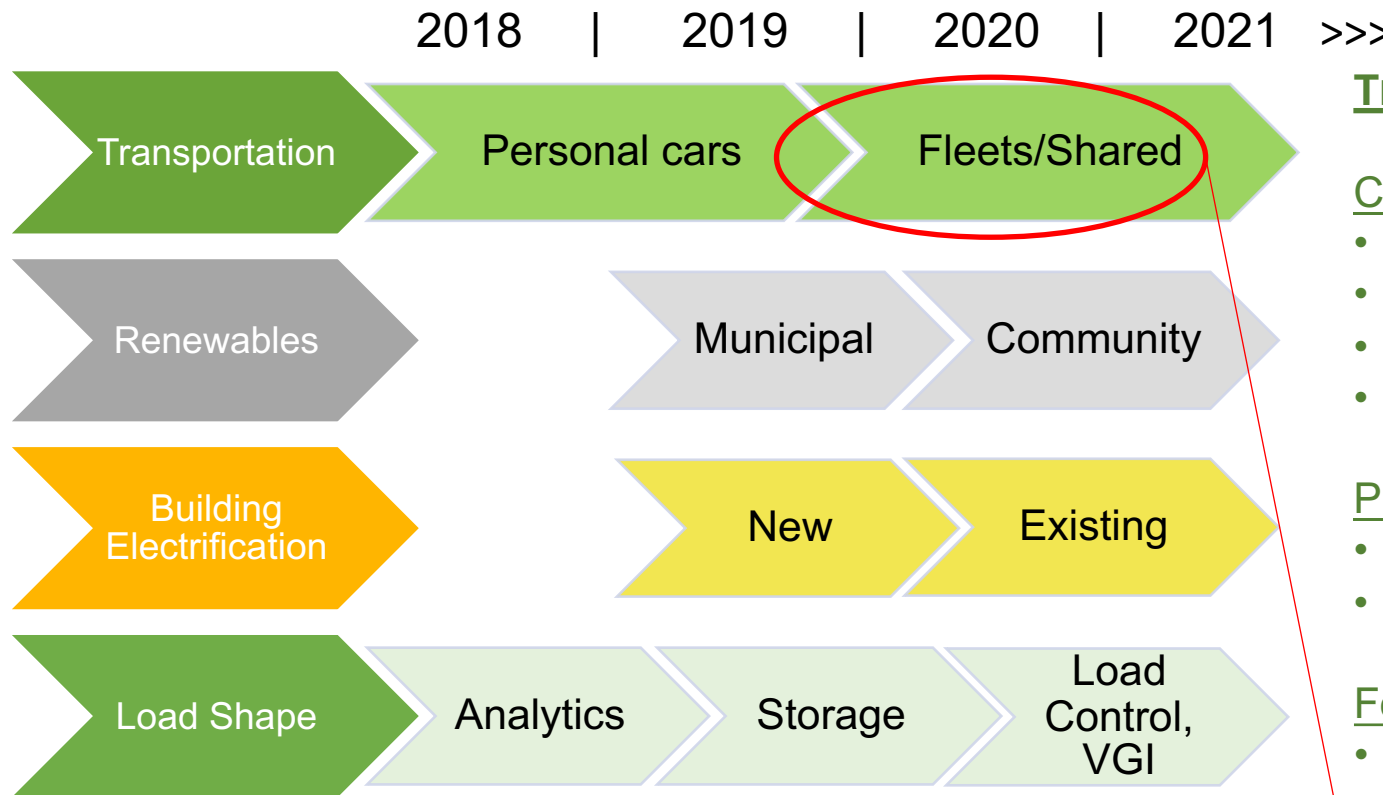
Request: Recommend approval to the Board of the proposed Fleets Program

Amount & Term:

Up to \$900,000 over 3 years, consisting of:

- \$350,000 – technical assistance
- \$300,000 – gap funding for fleet replacement projects
- \$250,000 – Vehicle to Building Resiliency Demonstration Project

High-Level Roadmap: Transportation



TRANSPORTATION ELECTRIFICATION

Current

- EV Ride & Drive Campaign (hiatus)
- New EV Incentive Program
- Low Income Used EV Program
- EV Ready (EV Charging Infrastructure Program)

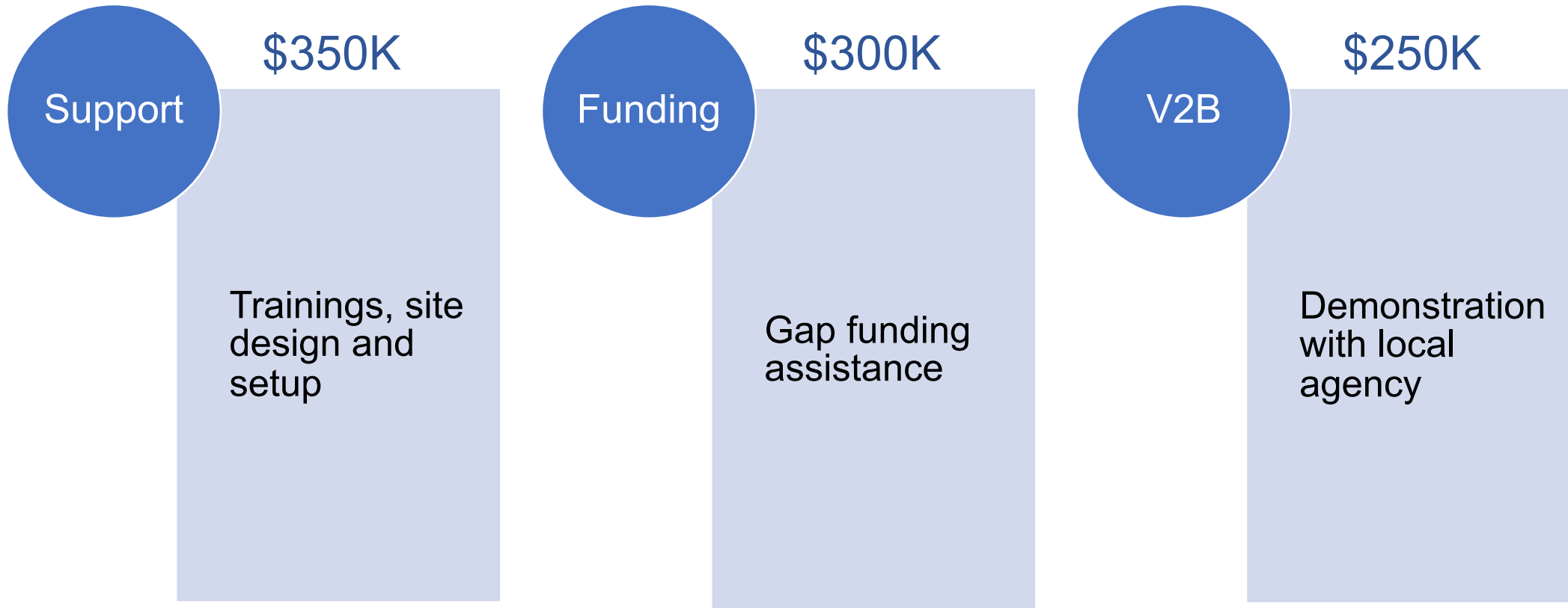
Pilots

- Smart Charging
- Low Power Charging

Forthcoming

- Ride-Hailing Electrification
- Curbside Charging Pilot
- E-bikes
- Municipal Fleets

Proposed PCE Fleets Program



Eligibility Requirements

- Open to public agencies and public-school districts
- All on-road vehicle classes eligible
- Partners must commit to replacing 5 vehicles minimum per project site (schools exempted)
- Low Carbon Fuel Standard (LCFS) credits must be delegated to PCE

Fleet Support Structure

Support

General: Total cost of ownership calculator (with PCE rates), workshops, events, grant education, contract resources, advising

Custom assistance

Custom Fleet Support Structure

Support

1. Project planning, cost estimates, design
2. Grant application assistance
3. Bid development or piggybacking assistance
4. Construction management and closeout (if necessary)
5. EV charging station setup and energy management

~2 projects per year, \$40K - \$80K per project

Fleet Funding (\$300K)

Funding

- Targeted gap-funding assistance
- Additional incentive to schools
- Can be used for EV chargers, EV incremental cost, installation, energy management subscriptions, etc.
- Light-duty vehicle demonstrations (e.g. electric class 1 truck)

Incentive structure, based on scale of unfunded project component*:

Unfunded Project Scope	Local Agencies	Schools
<\$100K	Up to 25% or \$25K per project (whichever is less)	Up to 50% or \$50K per project (whichever is less)
>\$100K		Up to 50% or \$100K per project (whichever is less)

* Net all other incentives and replacement depreciation

Fleet Funding Example

Waste Agency. 5 refuse trucks and 5 DCFC

- Installation: \$100,000
- EV chargers: \$300,000
- Trucks: \$1,750,000

Total project cost = \$2,150,000

Pre-PCE Incentives and Depreciation

- PG&E: \$95,000
- HVIP: \$750,000
- Depreciation: \$1,250,000

Unfunded project cost = \$55,000

PCE Incentive (25% up to \$25,000): \$13,750

Remaining agency cost: \$41,250



A Public Agency

Fleet Funding Example

Example – Waste Agency: 5 refuse trucks and 5 DC Fast Chargers

Funding

	PG&E Incentive	PCE Incentive	Other Funds	Waste Agency Funds	Total Costs
To the meter installation	\$50K (est.) 100% covered				\$50K
Behind the meter installation				\$50K	\$50K
EV charging stations (\$60K each)		\$14K		\$286K	\$300K
Trucks (\$350K each)	\$45K		\$750K (HVIP)	\$955K	\$1.75M
Depreciation				(\$1.25M)	
Total	\$95K	\$14K	\$750K	\$41K	\$2.15M

PCE Costs:

Incentives: \$14K

Planning: \$40K

Vehicle to Building Resiliency Pilot (\$250K)

Demo at 1 local agency critical facility

Goal: Understand cost/benefit of fleet vehicle to building (V2B) as a resiliency measure

Scope:

- Design and install support
- Trial demonstrations
- Evaluation

Components:

- Vehicles (1-2 Leafs)
- 1-2 EV charging stations
- Installation



Vehicle to Building Resiliency Pilot (\$250K)

Estimated Budget

Vehicles (2 used Leafs)	\$40,000
EV charging stations	\$15,000
Design and Engineering	\$60,000
Installation	\$35,000
Project support and evaluation	\$100,000
Total	\$250,000

Budget

	FY21	FY22	FY23	Total
Technical Assistance	\$50K	\$150K	\$150K	\$350K
Fleet Fund		\$150K	\$150K	\$300K
V2B Demo	\$25K	\$225K		\$250K
Total	\$75K	\$625K	\$300K	\$900K

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Backup Slides

Fleet Funding Example: School

School District: 5 school buses and 5 DC Fast Chargers

- Installation: \$100,000
- EV chargers: \$300,000
- Buses: \$2,000,000

Total project cost = \$2,400,000

Pre-PCE Incentives and Depreciation

- PG&E: \$215,000
- CA Air Resources Board*: \$1,100,000
- Depreciation: \$800,000

Unfunded project cost = \$285,000

PCE Incentive (50% up to \$100,000): \$100,000

Remaining school district cost: \$185,000

* Through the Hybrid and Zero-Emissions Truck and Bus Voucher Incentive Project (HVIP)

Proposed PCE Program

Example – school project with 5 electric buses and 5 DCFC:

Funding

	PG&E Incentive	PCE Incentive	Other Funds	School District Funds	Total Costs
To the meter installation	\$50K (est.) 100% covered				\$50K
Behind the meter installation	\$20K			\$30K	\$50K
EV charging stations (\$60K each)	\$125K	\$100K		\$75K	\$300K
Buses (\$400K each)	\$20K		\$1.1M (HVIP)	\$880K	\$2M
Depreciation				(\$800K)	
Total	\$215K	\$100K	\$1.1M	185K	\$2.4M

PCE Costs

Incentives: \$100K
Planning: \$80K