Sustainability Fund Update

August 2022

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Presented to: Interdepartmental Climate Action Task Force
August 17, 2022

Presentation Overview

- Sustainability Fund Overview & Management
- EVCS Project Update
- Map of County EVCS (owned & proposed)
- Your Engagement

Acronyms

EV – Electric Vehicle

ZEV – Zero Emissions Vehicle

EVCS – Electric Vehicle Charging Stations

PV – Photovoltaic (Solar Panels)

DER – Distributed Energy Resources

EE – Energy Efficiency

Sustainability Fund Overview

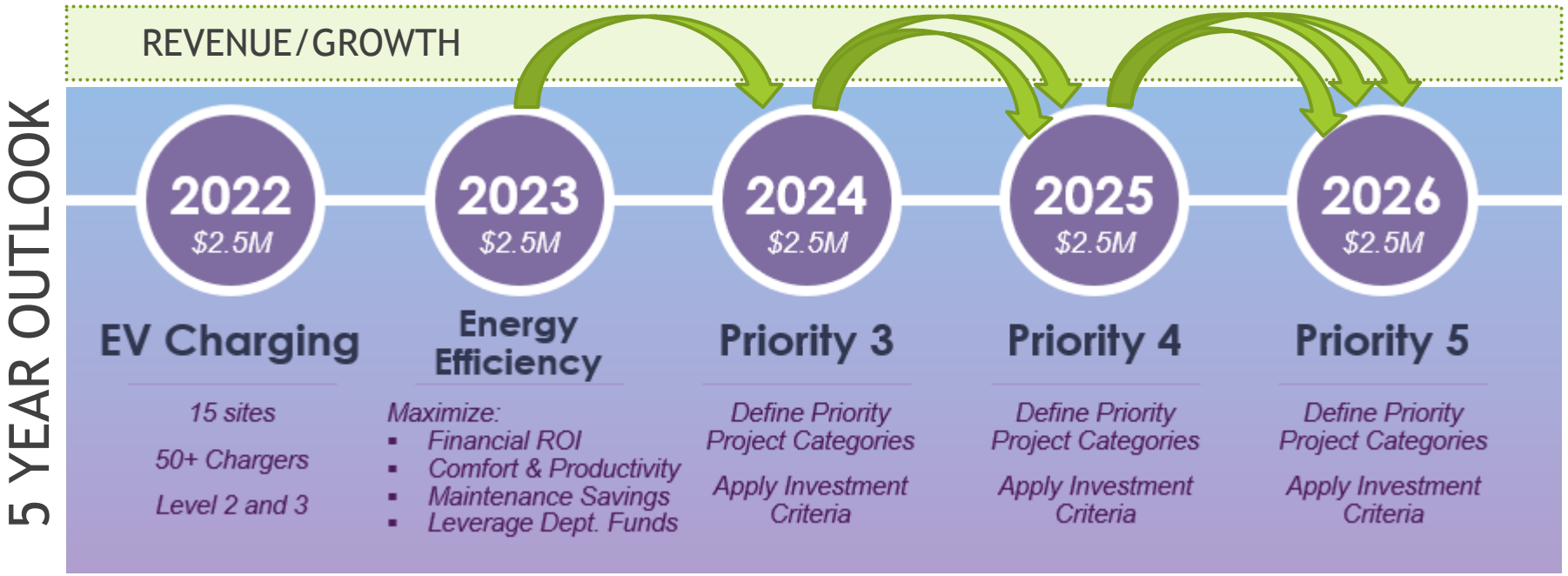
Fund Establishment

- March 2021, Funded by Measure X
- Vision = A sustained source of funding
- First projects:
  - EV Charging (year 1)
  - Energy Efficiency Equip. Retrofits (year 2)

Fund Management

- Cost-effective, value-rich investments
  - Establish key investment criteria
- Manage for growth (ID revenue streams)
- Annual reporting on key metrics

Sustainability Fund Overview



Fund Management

- Cost-effective & value-rich investments
- Manage for growth
- Annual reporting on key metrics

Cost-Effective & Value-Rich Investments

NOTE: All Content on this page is considered DRAFT and requires additional review and approval

- Establish key investment criteria
  - High ROI
  - High GHG emissions reduction
  - Leveraged funding (third party and Departmental)
  - High visibility/flagship/leading by example projects
  - Incremental funding for committed Departmental priority projects
    - 10-15% of project cost)
    - 25-30% for DER project priorities (e.g., EVCS, cost-effective EE)
  - G3 Champions priority projects
  - Projects that are less conducive to financing
  - Alignment with DER Plan

Manage for Growth

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Potential Revenue Source	Anticipated Amount
Renewable Energy Certificates from PV resources	Six figures
California Low-Carbon Fuel Standard Credits (LCSF)	Likely 4 figures to start, 5 figures by 2025
Demand Response Cash Payments	Up-to $50,000/year
Strategic Energy Management Program Participation	$6,000/year
Energy Efficiency Cash Incentives	10-20% of total project investment

Annual Reporting on Key Metrics

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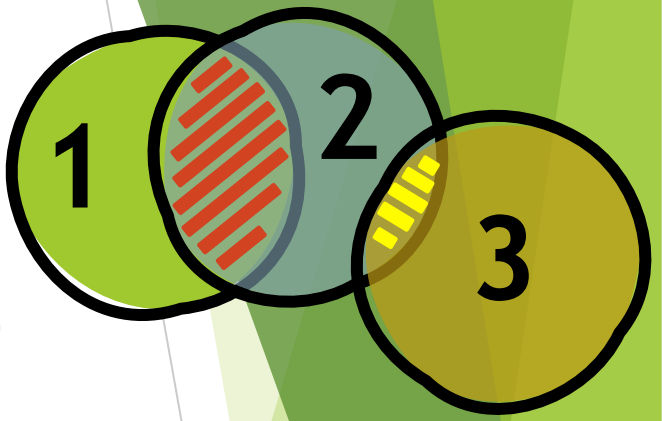
- By project
- By department
- Savings / ROI
- Leveraged revenue
- GHG emissions reductions
- *etc.…*

Year 1 Priority - Sustainability Fund

- Electric Vehicle Charging Infrastructure
  - Priority 1: Serve County Fleet Needs
  - Priority 2: Workplace Charging for Employees (charging fees paid by employees)
  - Priority 3: Publicly accessible charging in County's most *Impacted Communities*

Relationship Between Priorities



- Opportunities for shared Charging Stations
  - Fleet + Employee = Many
  - Employee + Public = Few
  - Public + Fleet = None

Electric Vehicle Charging Levels Overview

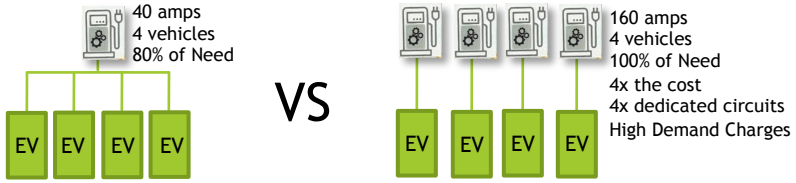
Level	Time Required to Recharge Battery to Full	Electrical Capacity
1	1 week (3-5 miles/hr)	120 volts AC
2	8 hours (12-40 miles/hr)	240 volts AC
3	1 hour (200+ miles/hr)	High Voltage DC

*Charging times and speeds will very. This chart is provided to communicate for understanding and represents generalized assumptions.

EVCS Project Update

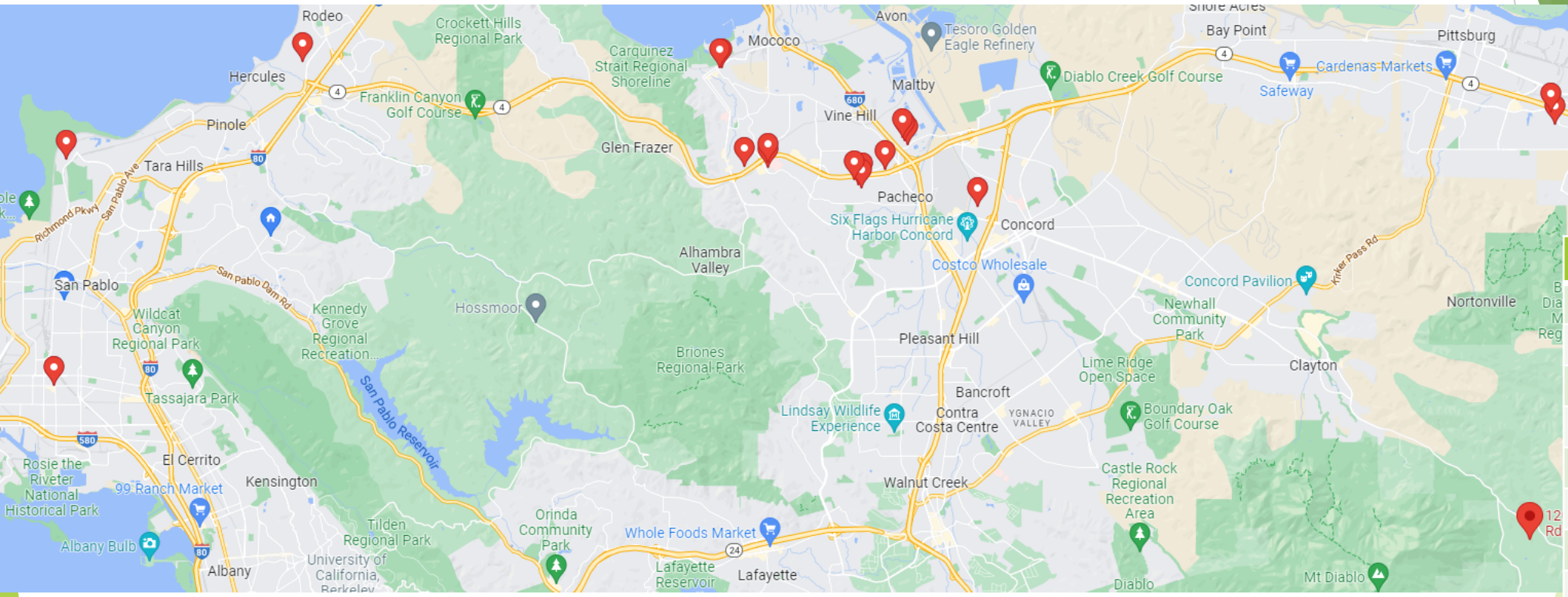
Scope of Work	Description
Overview	50+ Level 2 stations across 15 sites,1 to 4 ports per station; feasibility of DC Fast Charging Station(s)
Budget	$2,500,000 (PW Sustainability Fund)
Status	Feasibility Analysis phase of first 5 sites with On-Call Design Team
Schedule	Goal: First install by Q1 2023, project completion by Dec 2024
Procurement	Design-Bid-Build and/or Job-Order-Contracting
Cost/Supply Chain	Evaluation of equipment cost increases and supply chain risks is underway (e.g transformers are 12-18 months backlogged)
Next Step	Finalize Design Team's Scope of Work
Future-Proofing	Automated Load Management Systems

EXAMPLE



VS

County-Owned, Operated and Proposed EVCS



Proposed Sites
50 Douglas Dr, Martinez
30 Muir Rd, Martinez
255 Glacier Dr, Martinez
4945 Delta Fair Blvd, Antioch
2475 Waterbird Way, Martinez
4549 Delta Fair Blvd, Antioch
595/597 Center Ave, Martinez
2530 Arnold Dr, Martinez
1960 Muir Rd, Martinez
202 Glacier Dr, Martinez
151 Linus Pauling, Hercules
5555 Giant Hwy, Richmond
1305 McDonald Ave, Richmond
1650 Cavallo Rd, Antioch
12000 Marsh Creek Rd, Clayton

Level 2 EVCS 8hr charge = full battery	Existing	Proposed
	35	50+
	6 Sites	15 Sites

Level 3 EVCS 1hr charge = full battery	Existing	Potential
	0	2
	0 Sites	2 Sites

Your Engagement is Important

Current Project – Electric Vehicle Charging Stations

- Energy Manager working closely with Fleet Services to install EVCS and encourage fleet electrification
  - Quarterly meetings with Fleet
  - Project specific collaboration with Energy Manager
  - Coordination with Real-estate for adding EVCS language in the lease agreement

Near-Future Project – Energy Efficiency Equipment Retrofits

- Energy Manager working closely with Facilities Services to identify energy efficiency opportunities
  - Energy Manager to offer technical support to identify and implement projects
    - Leverage third-party incentive programs

Thank you.

Please Share Questions and Comments

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