



# EV CHARGING INFRASTRUCTURE MASTER PLAN

*City of Petaluma*

N|V|5

# SCOPE OVERVIEW

<b><u>Task 1</u></b> <b>EV Infrastructure Master Plan (30% Concepts, 20-Sites)</b>	<ul style="list-style-type: none"><li>• EVSE Selection</li><li>• EVSE Concepts &amp; Interconnection Scheme (30%)</li><li>• Initial AHJ and Utility Coordination</li></ul>
<b><u>Task 2</u></b> <b>Incentive and Program Support</b>	<ul style="list-style-type: none"><li>• PG&amp;E EV Fleet Coordination</li><li>• Assist with: Identify, Apply, Manage other Grants/Incentives</li></ul>
<b><u>Task 3</u></b> <b>EVSE Design (10-Priority Sites)</b>	<ul style="list-style-type: none"><li>• Develop Design Documents</li><li>• Permit &amp; Finalize Construction Docs for Bidding</li></ul>
<b><u>Task 4 &amp; 5</u></b> <b>Owner's Rep Services</b>	<ul style="list-style-type: none"><li>• Procurement Support</li><li>• Construction &amp; Cx Support</li></ul>
<b><u>Task 6</u></b> <b>Fleet Planning Support (Optional)</b>	<ul style="list-style-type: none"><li>• Assist with Fleet Transition Planning &amp; EVSE Needs Analysis</li><li>• TCO, Capital Planning</li></ul>



# PETALUMA EVSE SITES

NV5

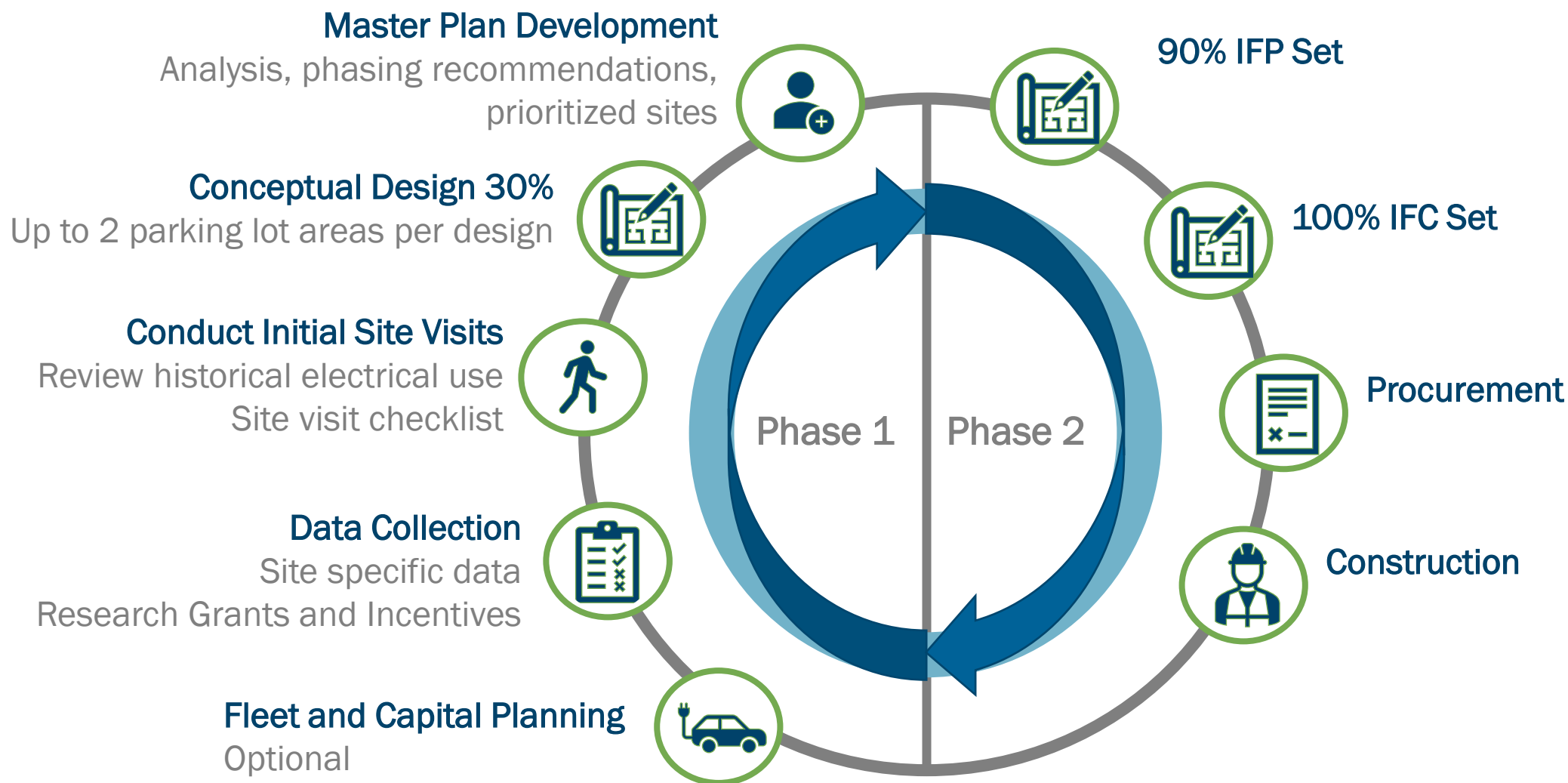
Phase 1

Phase 2

	Level 2	Level 3	Fleet	Public	Solar	Power Reqs	Potential Resiliency (Not Base Scope)	NV5 Supporting Grant	PG&E EV Fleet Program	Design Priority	Notes
1. Police Department	X	X	X	?	X	High	X		X	Priority	
2. Water Field Office	X	X	X	X		Med	X	X	X	Priority	Good as-builts
3. Corporation Yard	X	X	X			High	X		X	Priority	No drawings
4. City Hall	X		X	X		Med	X		X	Priority	
5. Ellis Creek	X	X	X	X	X	High	X		X	Priority	Good as-builts
6. Fire Department 1	X	X	X			High	X	X	X	Priority	
7. Fire Department 2	X	X	X			High	X		X	Priority	
8. Fire Department 3	X	X	X			High	X		X	Priority	
9. Airport	X		X	X		Low	X		X	Priority	
10. Community Center	X		X	X		Low	X		X	Priority	Good as-builts
11. Transit	X	X	X	X	-	High	X	-	X	Priority	Separate Task Order
12. Library & Teen Center	X			X		Low		X		Phase 2	
13. Swim Center 1	X		X	X		Low				Phase 2	
14. Swim Center 2	X		X	X		Low				Phase 2	
15. Senior Center	X			X		Low				Phase 2	
16. Marina	X			X		Low				Phase 2	
17. Prince Park	X			X		Low				Phase 2	
18. Keller Garage	X			X		Low		X		Phase 2	
19. Schollenberger Park	X			X		Low				Phase 2	
20. Leghorn Park	X			X		Low				Phase 2	
21. Community Sports Fields	X			X		Low		X		Phase 2	

# PROCESS

N|V|5



# SCHEDULE

#	Task	Start Date	End Date	Deliverables
1	EVSE Masterplan & 30% Design	Apr 2023	Jul 2023	<ul style="list-style-type: none"> <li>• EV Charging Infrastructure Master Plan</li> <li>• Conceptual Designs</li> </ul>
2	Incentive & Program Mgt	Apr 2023	Dec 2024	<ul style="list-style-type: none"> <li>• Applications</li> <li>• Response to Application Issues</li> <li>• Program/Incentive Management</li> </ul>
3	EVSE Design	Aug 2023	Feb 2024	<ul style="list-style-type: none"> <li>• 30% Schematic Set</li> <li>• 90% IFC Set</li> <li>• Permit Submittals (extra time has been included in Task 3 to allow for extended permit timeline risk)</li> </ul>
4	Owner's Rep – Procurement	Feb 2024	Jun 2024	<ul style="list-style-type: none"> <li>• RFI Responses</li> <li>• Proposal Evaluation Summary</li> <li>• Redlines of Contract Documents</li> </ul>
5	Owner's Rep – Construction/Cx	Jul 2024	Dec 2024	<ul style="list-style-type: none"> <li>• Review/Input for Submittals/RFIs/Change Order/Pay Apps</li> <li>• Punch List</li> <li>• Cx Verification</li> <li>• Assist with Closeout Doc Collation</li> </ul>
6	(Optional) Fleet & Capital Planning	May 2023	Sep 2023	<ul style="list-style-type: none"> <li>• Fleet transition planning support/capital plan</li> <li>• Energy consumption profiles and utility tariff cost modeling (by site)</li> <li>• EVSE Total Cost of Ownership cashflows</li> </ul>

**2023**

**Apr**

**Aug**

**2024**

**Jan**

**Feb**

**Jun**

**Oct**

**Dec**



Master Planning & Concepts  
(20-Site)

EVSE Design  
(10-Site)

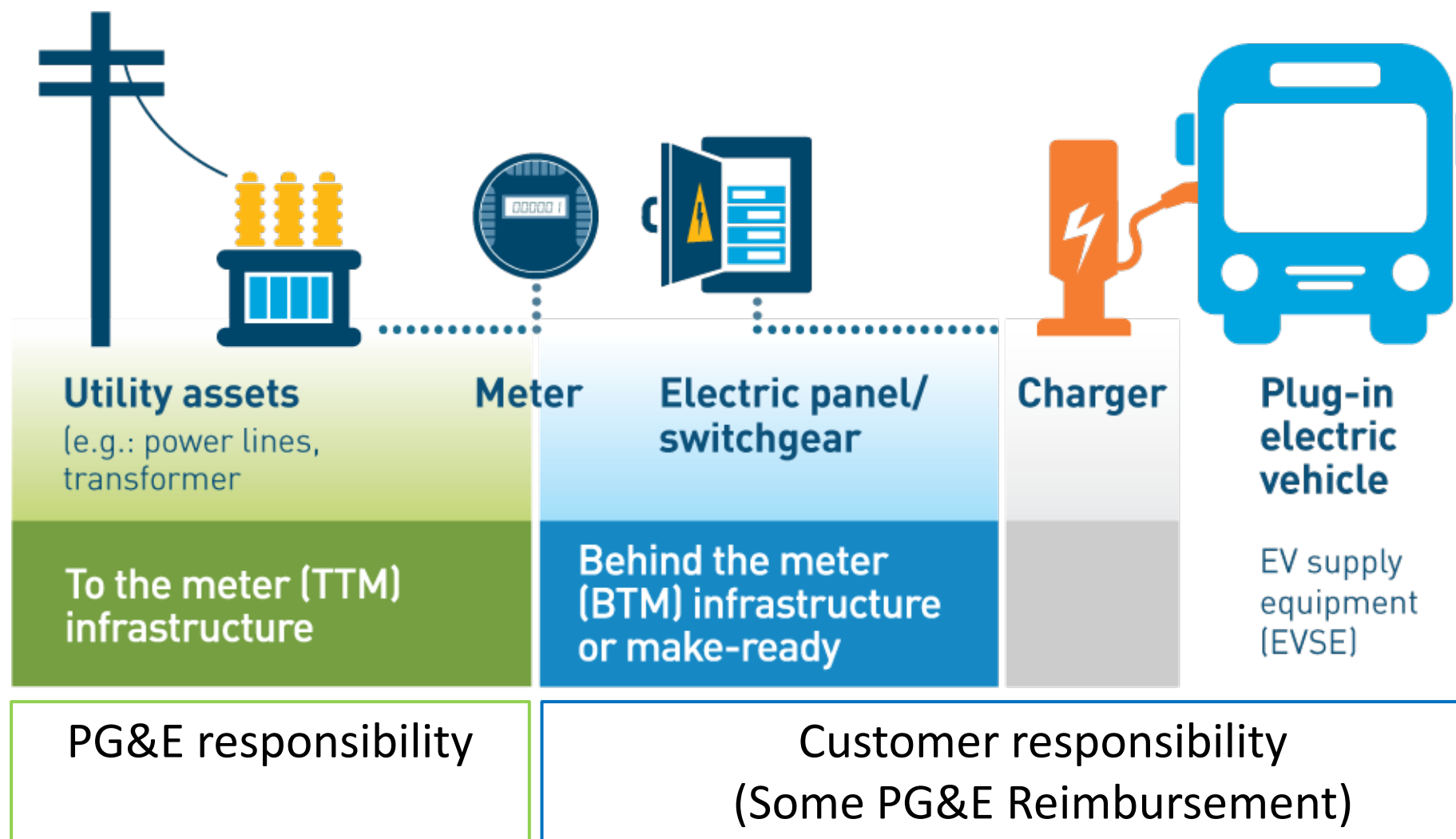
Permitting

Procurement/  
Contracting

Construction

Post-Construction  
& Cx

# PG&E EV FLEET PROGRAM (MD/HD ONLY)





# POTENTIAL REBATES & INCENTIVES

- Local Air Board/Carl Moyer funding
- PG&E EV Fleet Program
- California Energy Commission (CEC)
- California Air Resources Board (CARB)
- Local Community Choice Energy (CCE) Program
- Investment Tax Credit (ITC) - Direct pay for non-taxable entities
- EnerGIZE/CALeVIP
- FTA Grants
- Other State or Federal grants/incentives





# THANK YOU

## Principal in Charge

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