



"Watts For Lunch"

January 30th, 2019

Hosted By



**Computer
History
Museum**

Watts for Lunch

- Interactive SVCE updates
- Understand customer priorities
- Local peer networking
- Forum for learning/idea sharing
 - best practices
 - new technology, services
 - programs and incentives

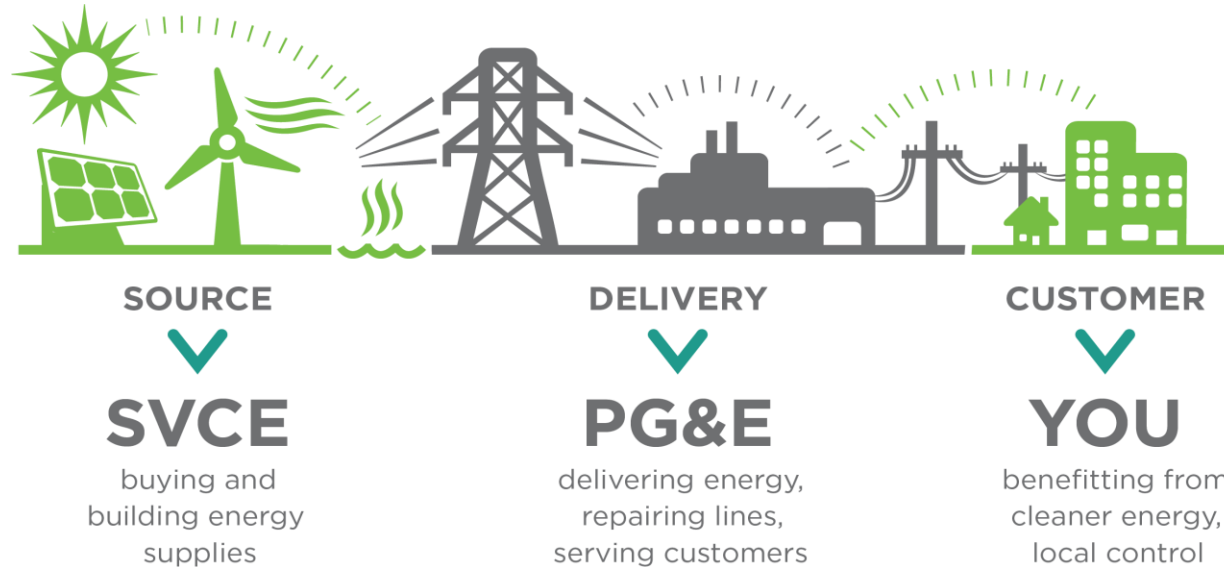


Attendee Intros . . .



allow myself to introduce . . . myself

SVCE Mission



- Clean, carbon-free electricity at competitive prices
- Programs to support ongoing carbon emissions reduction via electrification of transportation and the built environment

SVCE Member Agencies

City of Campbell

City of Cupertino

City of Gilroy

City of Los Altos

Town of Los Altos Hills

Town of Los Gatos

City of Milpitas

City of Monte Sereno

City of Morgan Hill

City of Mountain View

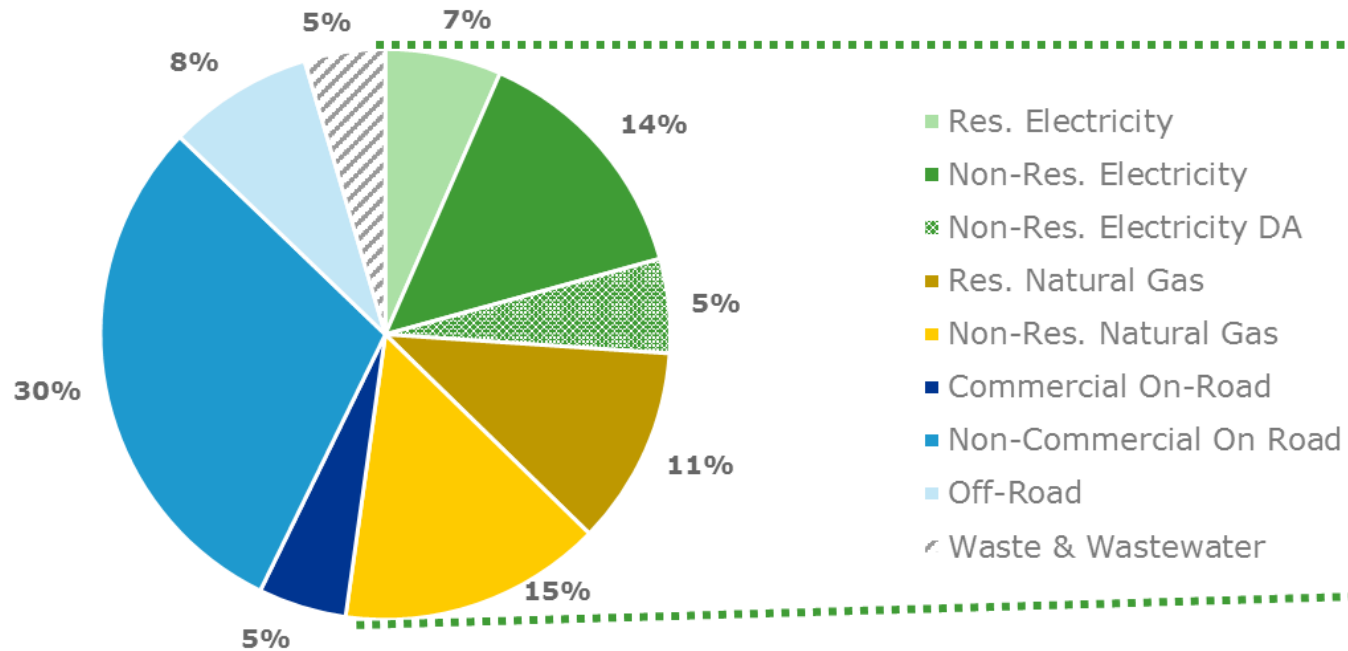
City of Saratoga

City of Sunnyvale

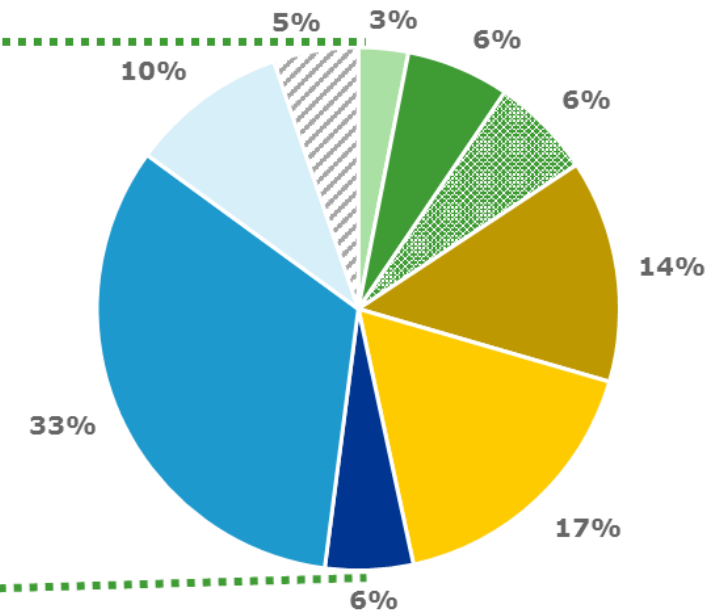


Today's Focus: Fleet Electrification

2015 Total Emissions by Subsector



2017 Total Emissions by Subsector



49% of local GHG emissions from transportation in 2017

Today's Agenda

11:00 am	SVCE Intro And Host Welcome
11:10 am	Attendee Introductions
11:20 am	Lead in to Energy Storage – John Supp
11:30 am	“Watt Do You Think?” Interactive Polling
11:40 am	Simplifying the Transition to Zero-Emission Mobility – Sila Kiliccote
12:00 pm	Lunch and Networking
12:30 pm	Energy Management System for ZEBs – Gary Miskell and Christina Jaworski
12:50 pm	Fast Charging Hubs – Lars Peters
1:10 pm	Panel Discussion and Q&A with Speakers
1:30 pm	“Watt Do You Think?” Interactive Polling
1:40 pm	SVCE Update and PG&E DCFC Programs – Don Bray
1:55 pm	Wrap Up, Forthcoming Event Announcement
2:00 pm	Adjourn to Networking



John Supp

Account Services Manager

Charging Lead-in

What Will We See Today?

Interactive Polls

Speakers

Brief Intro to electric vehicles

Fremont
Police Dept. unveil Tesla patrol car



Sacramento
New Electric Garbage Truck



Electric Street Sweeper



Electric Ride-on Lawn Mower



Electric Dump Truck 4x 1200 kW motors



Electric Ferries



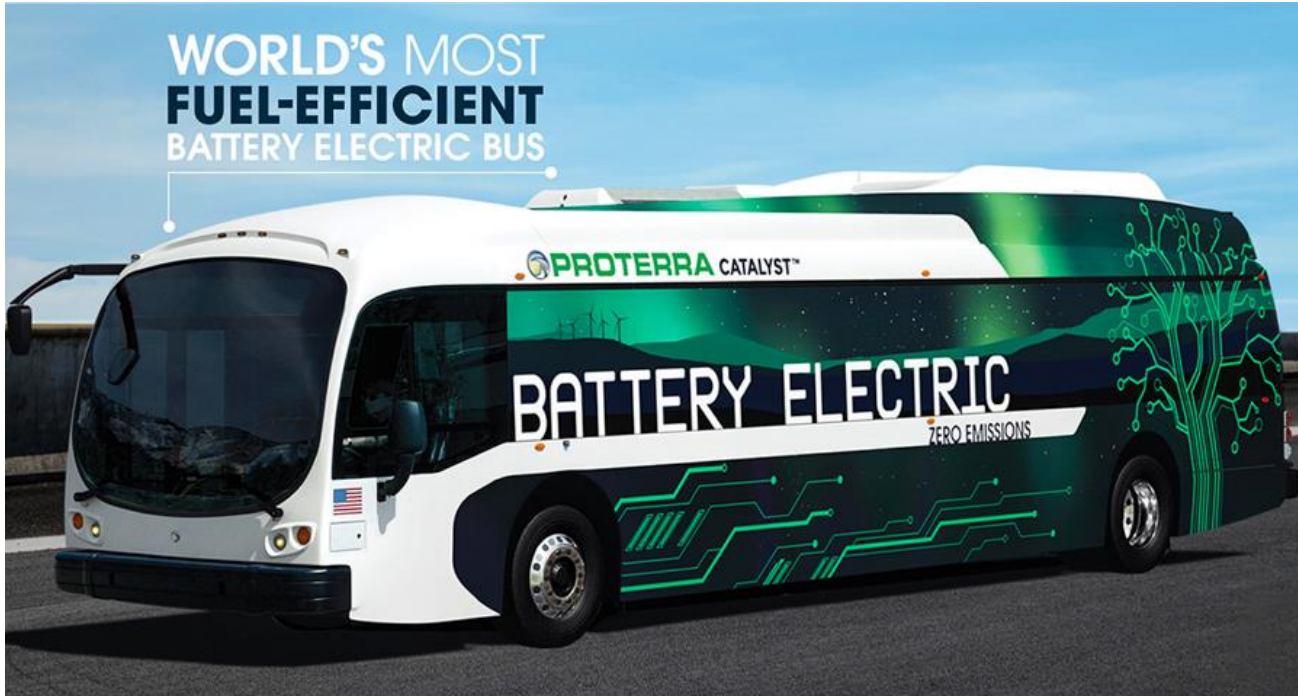
Work Vehicles



Semi's

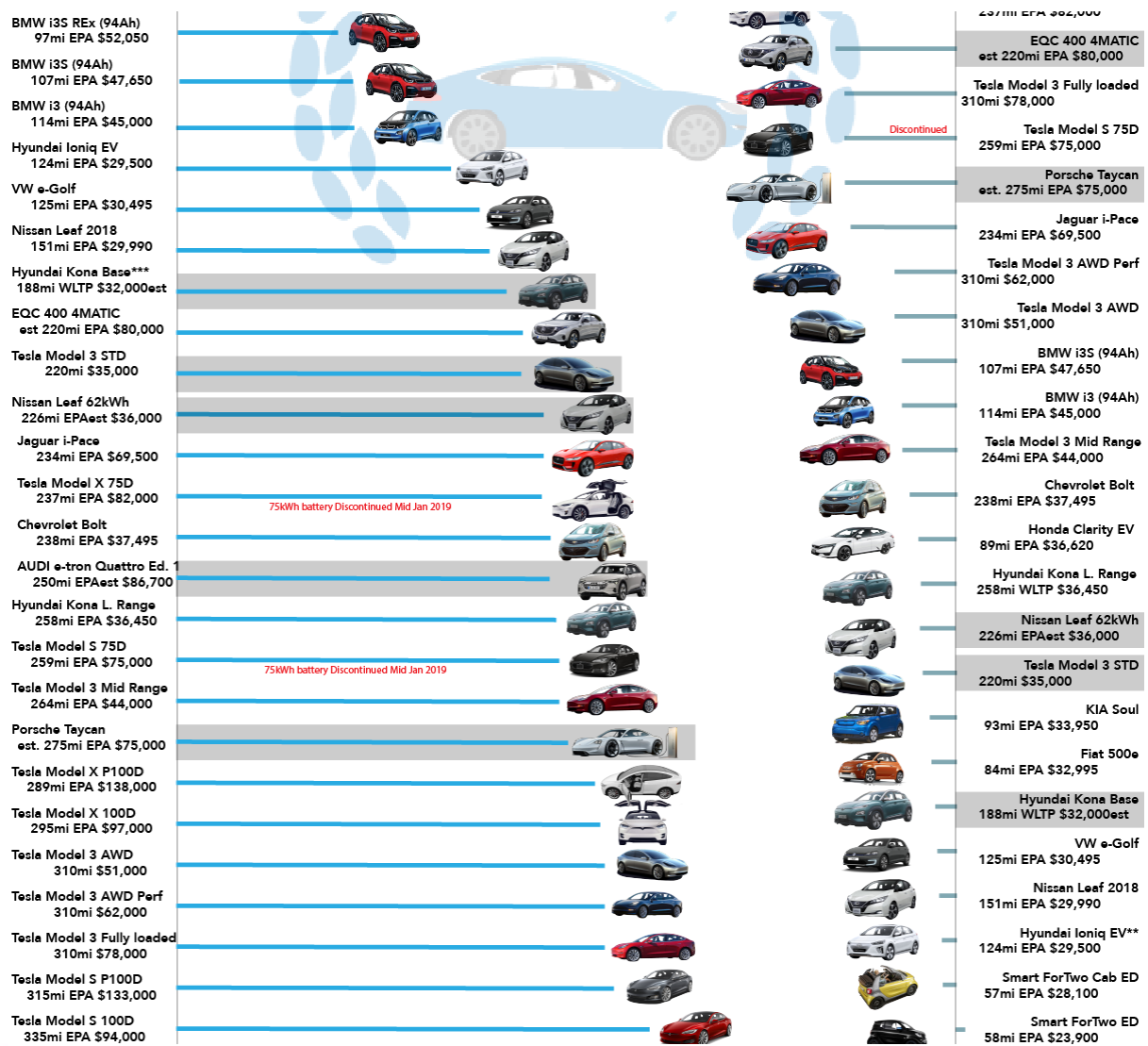


Buses



Personal Transportation





Cars

20+ current models of pure EVs

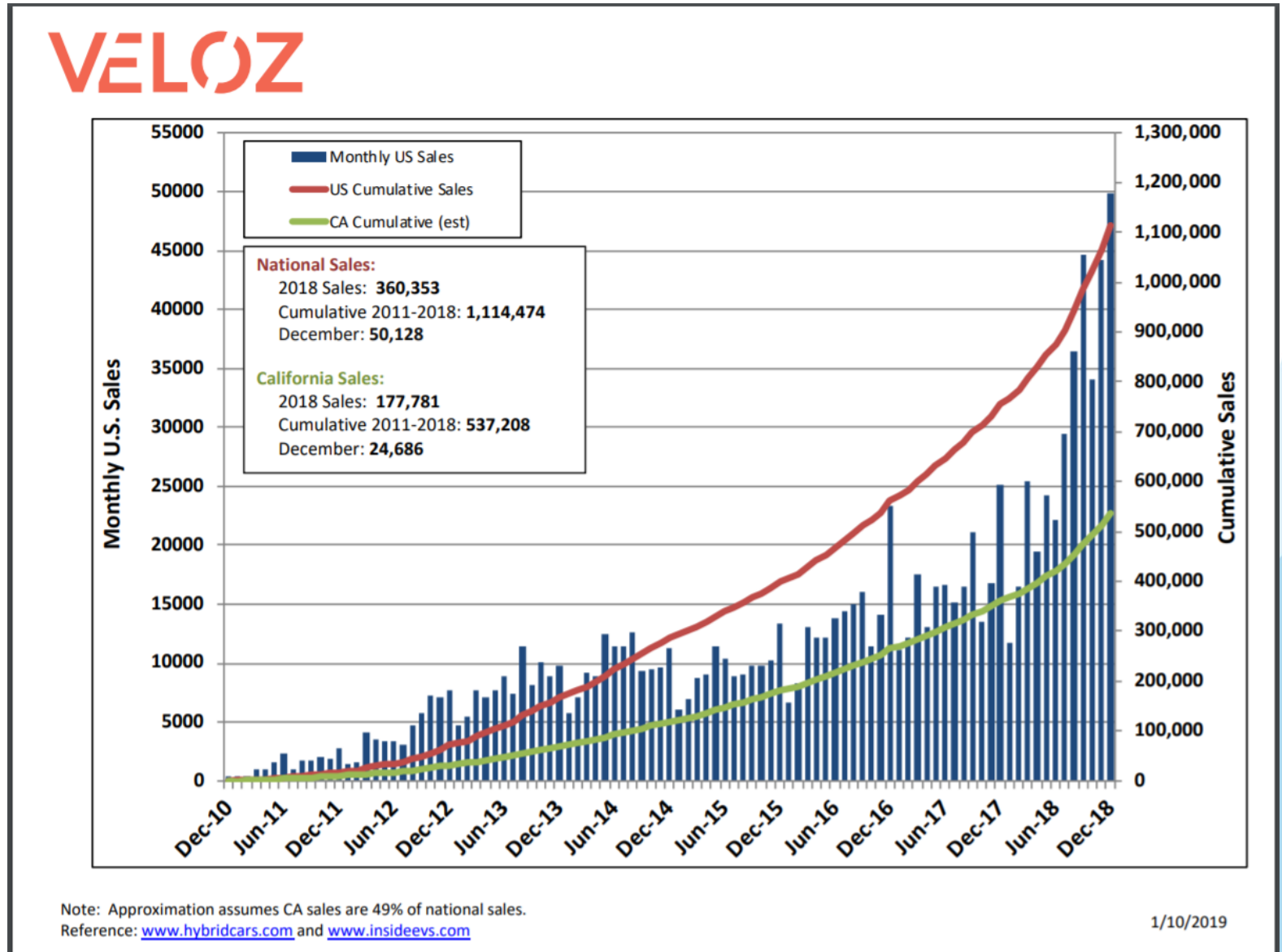
30+ current models of plug-in hybrids

Electric car sales

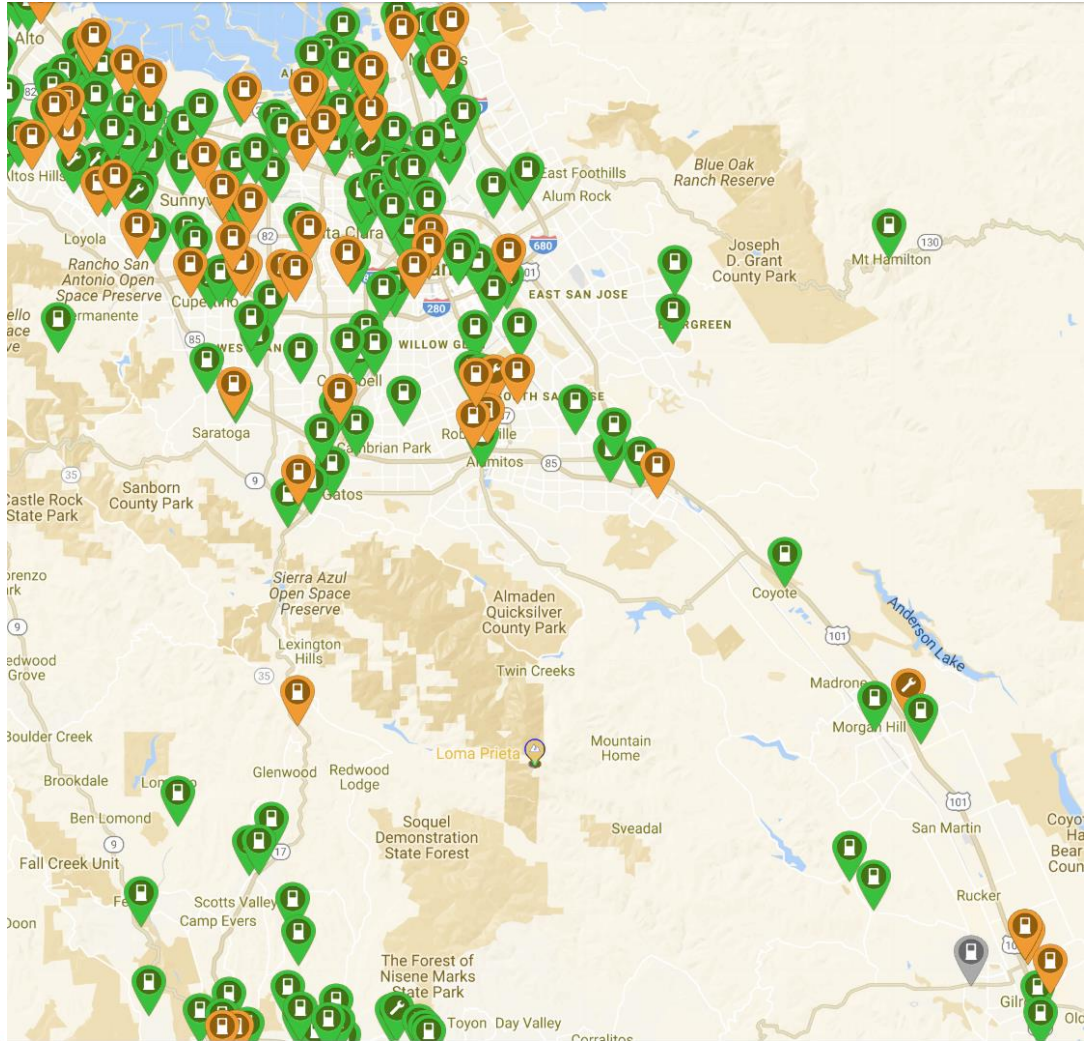
More than 500,000 EV's in CA

1/3 of those acquired in 2018

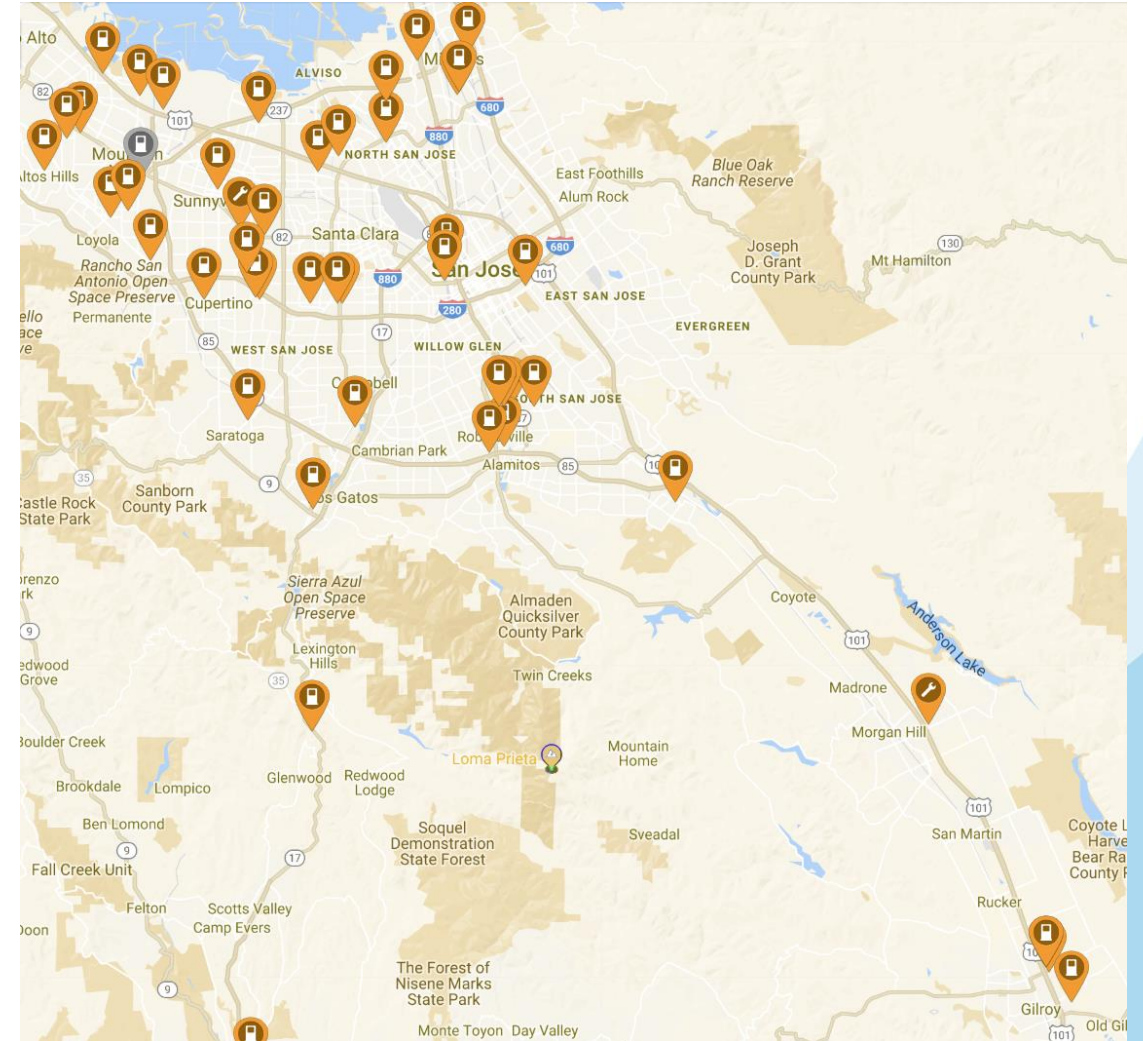
Trend is increasing



SVCE Territory All public chargers



SVCE Territory High Speed (Level 3) Chargers only



Watt Do You Think?

Interactive polling provided through your smartphone!

Please navigate to:

www.zeetings.com/SVCE

Sila Kiliccote

CEO and Co-Founder

eIQ Mobility



Zero-Emissions Mobility. Zero Risk.



CHALLENGE STATEMENT.

How might we
simplify and
accelerate the
transformation to
zero-emission
mobility?

WHAT HAVE WE DONE?

Month / **1**
Testing
Customer
Desirability

What do people want?

Month / **2**
Determining Product/
Service Feasibility

What should we build?
Can we build it?

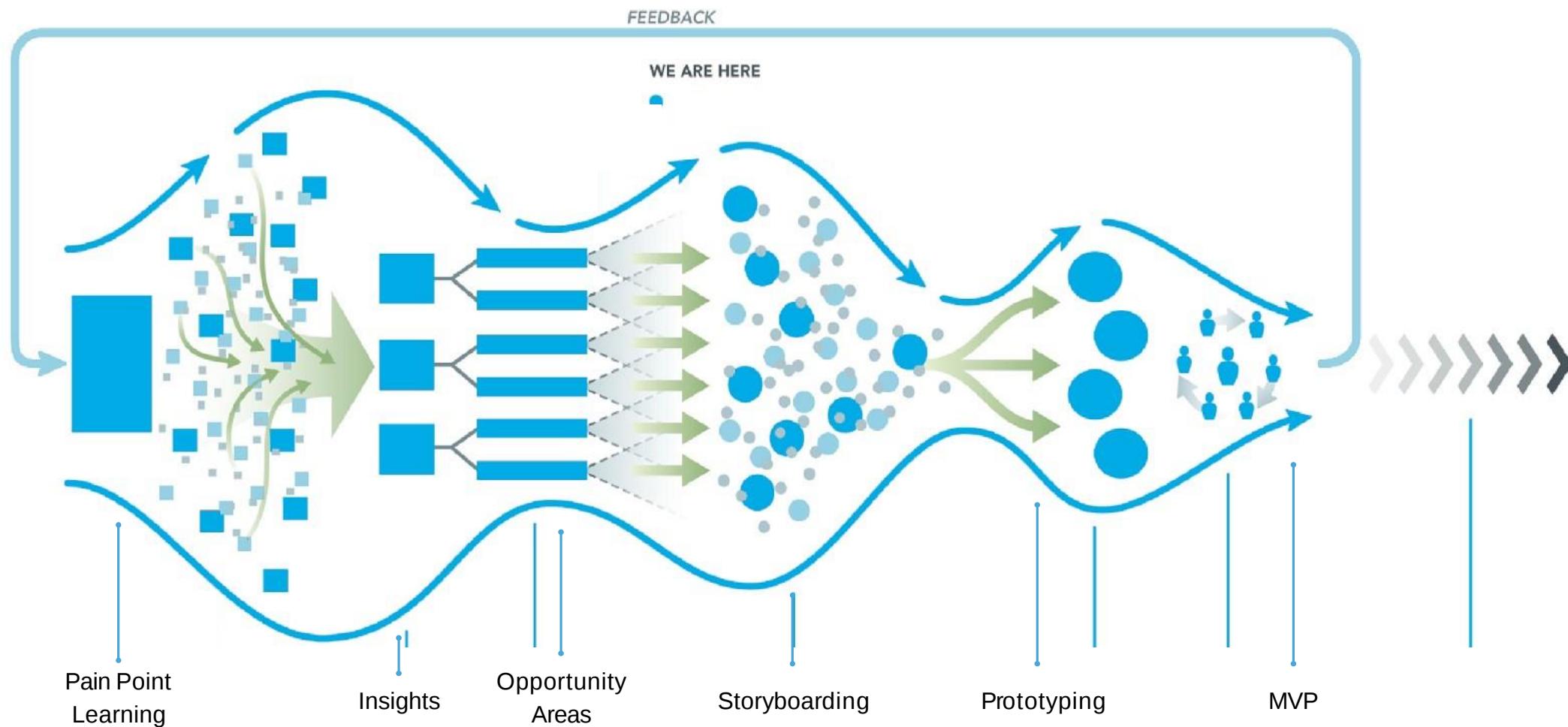
Month / **3**
Assessing
Business Viability

Can we make money?





OUR PROCESS.



OVER 220 INTERVIEWS TO DATE

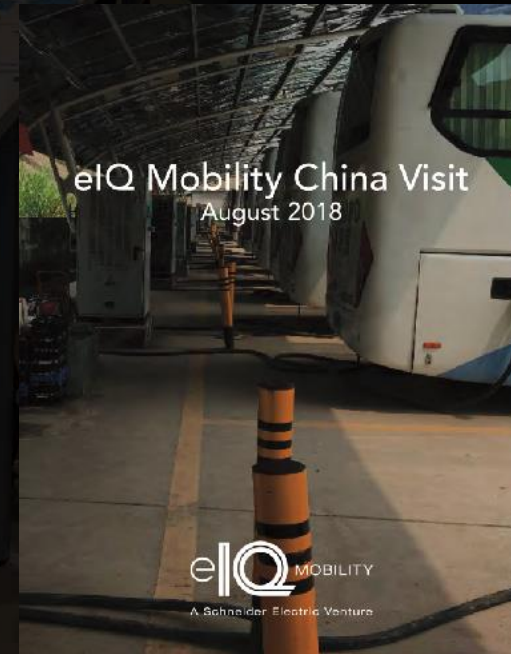
400+ Industry Connections

23 In-Person China Interviews

109 Pain Point Interviews

63 Storyboard Interviews

57 Prototype Interviews





SEGMENTS.

Utilities <i>PG&E</i>	Charge Station Operator <i>EVGo</i>	Incubent OEM <i>GM</i>	Service and Tech Fleet <i>Sunrun</i>
Fleet Management Companies <i>LeasePlan</i>	Yellow Steel Fleet <i>Ranger Construction</i>	Government and Municipality <i>County of LA</i>	Hardware and Technology <i>Tritium</i>
Food and Beverage <i>PepsiCo</i>	Public Fleet Operation <i>TransDev</i>	EV OEM <i>Workhorse</i>	Contractor <i>Black & Veatch</i>
Software Technology <i>Bestmile</i>	Last Mile <i>FedEx</i>	Bus Companies <i>Proterra</i>	Ride Share <i>Uber</i>



EXAMPLE PERSONAS.

**Fleet Management
Operation Executives**



Fleet Manager



Facility Manager



Policy Manager



CFO / Finance Manager



Consultant



CEO / COO



Global VP Real Estate



Sustainability Execs





Fleet Electrification is EXTREMELY PAINFUL





INDUSTRY PAIN.

**Infrastructure & EV Supply
Equipment (EVSE)**

Charging Costs

Policy and Regulation

Vehicles

Warranty and Quality

Data and Analytics

Route Planning

**Total Cost of Ownership
(TCO)**

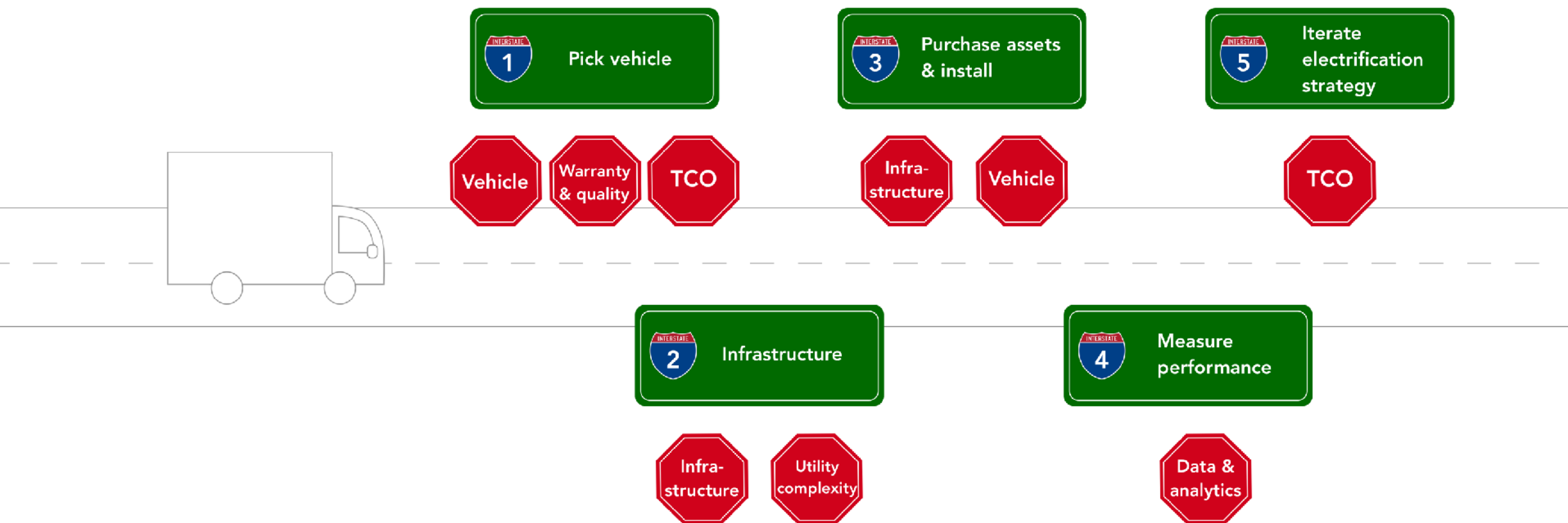
Complexity

Utility Complexity

Grid Services (V2X-V2G)



HOW IT WORKS NOW.





LESSONS LEARNED IN CHINA.



ISSUES WITH ELECTRIFICATION.

Human Factors

Anxieties around range, charging, maintenance & availability of trained technicians are very real.

Vehicles

300/400 + EV manufacturers . Gov't incentives makes CAPEX equivalent.

Infrastructure & EV Supply Equipment (EVSE)

Low utilization of over 250k chargers. Charging site locations. Reliability of the charging infrastructure.

Drivers

Bus drivers like better reliability, simple charging & passenger satisfaction. Taxi drivers do not like the charging down time.





ISSUES WITH ELECTRIFICATION.

Data & Analytics

Sophisticated data platforms to collect, analyze & visualize.



Charging Costs

With low utilization rates, the fixed costs are high. Fully loaded cost of energy: 3-5X

Warranty & Quality

Quality of EVs is low but improving and the fleet industry is leasing instead of buying

TCO

Residual value of vehicles is low due to uncertainty.





ISSUES WITH ELECTRIFICATION.

Grid Services

No market for grid services in China

Route & Urban Planning

Lack of route and urban planning tools that include charging in route planning and scheduling

Policy & Regulation

Strong mandates & incentives that are nationally driven & deployed

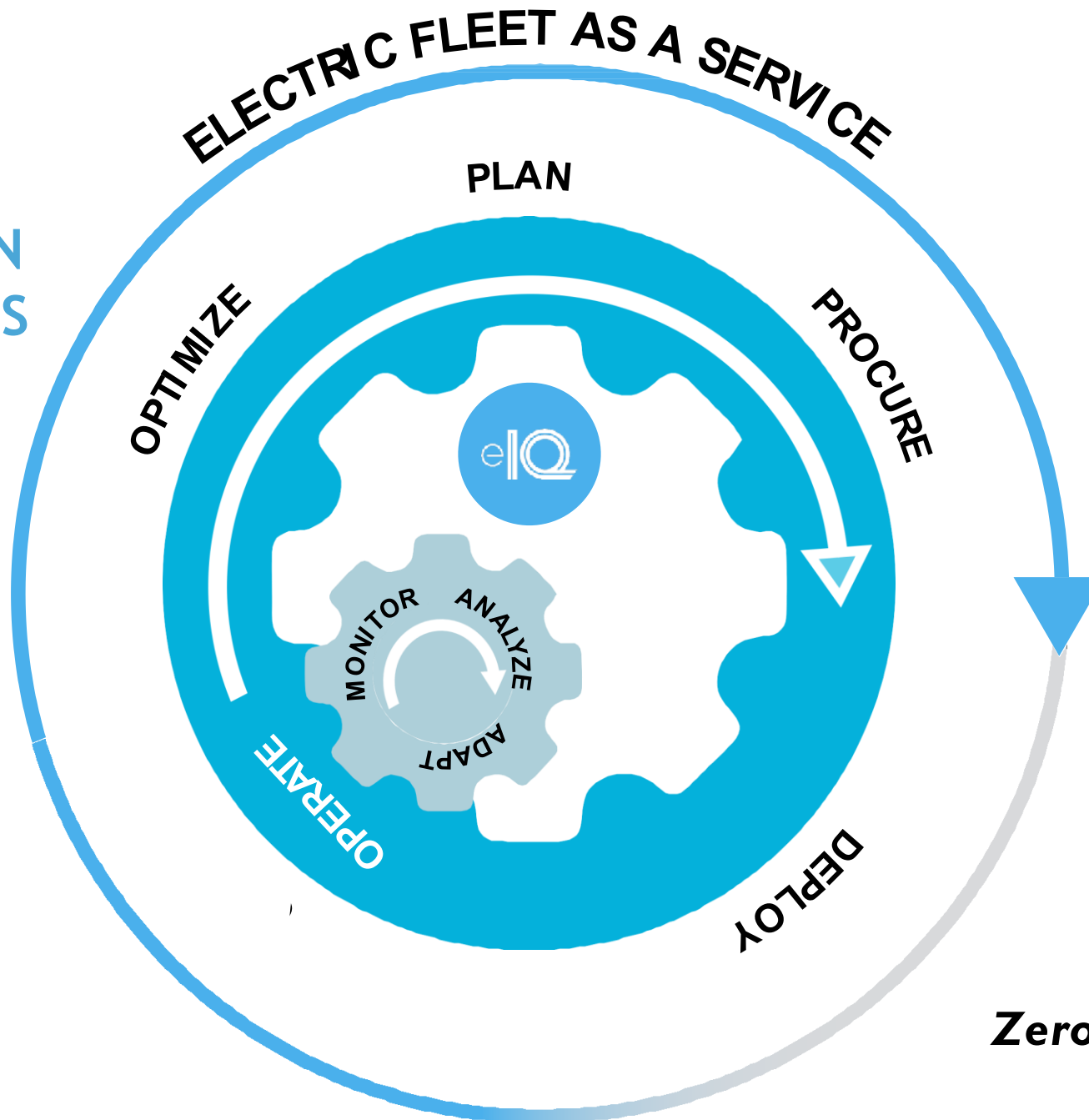
Utility

SGCC and CSPG, are both mandated to increase EV adoption





eIQ IS THE SOLUTION
FOR ZERO-EMISSIONS
FLEETS.



***Zero-Emissions Mobility.
Zero Risk.***



Thank You



Zero-Emissions Mobility. Zero Risk.

A large crowd of people is gathered outdoors on a grassy area, surrounded by trees. Many people are sitting on the grass, some on blankets and others on folding chairs. The scene is bright and sunny, suggesting a pleasant day for an outdoor event. The crowd is diverse in age and appearance, and they appear to be engaged in various activities, possibly listening to a presentation or participating in a group activity.

Get To Know Your Peers

Lunch is Served...

**Presentations
Resume @ 12:30**

Valley Transportation Authority

Gary Miskell

**Chief Information and
Technology Officer**

Christina Jaworski

**Senior Environmental
Planner**



VTA's Smart Charging Energy Management System for ZEB's

*SV Clean Energy Watts for Lunch
ZEB Fleet Management*

**Gary Miskell, Chief Technology/Innovation Officer
Christina Jaworski, Senior Environmental Planner
Santa Clara Valley Transportation Authority
January 30, 2019**



Solutions That Move You



VTA's Current and Proposed Fleet Electrification Plans

- **Began operating five Zero Emission Buses (ZEB) in July 2018**
- **Using six 50 kW chargers that will soon be upgraded to 120 kW**
- **Planning to procure at least 30 additional ZEB's over the next 5 years**
- **More than 15 buses requires major upgrades to the bus yard utility infrastructure**
- **More than 35 buses requires major upgrades to neighborhood grid utility infrastructure**





ZERO EMISSION

7502

SANTA CLARA VTA

Solutions that move you forward

7502



VTA Cerone Yard

Averaging \$450K per year



675 KWH Generator
650KWH Generator



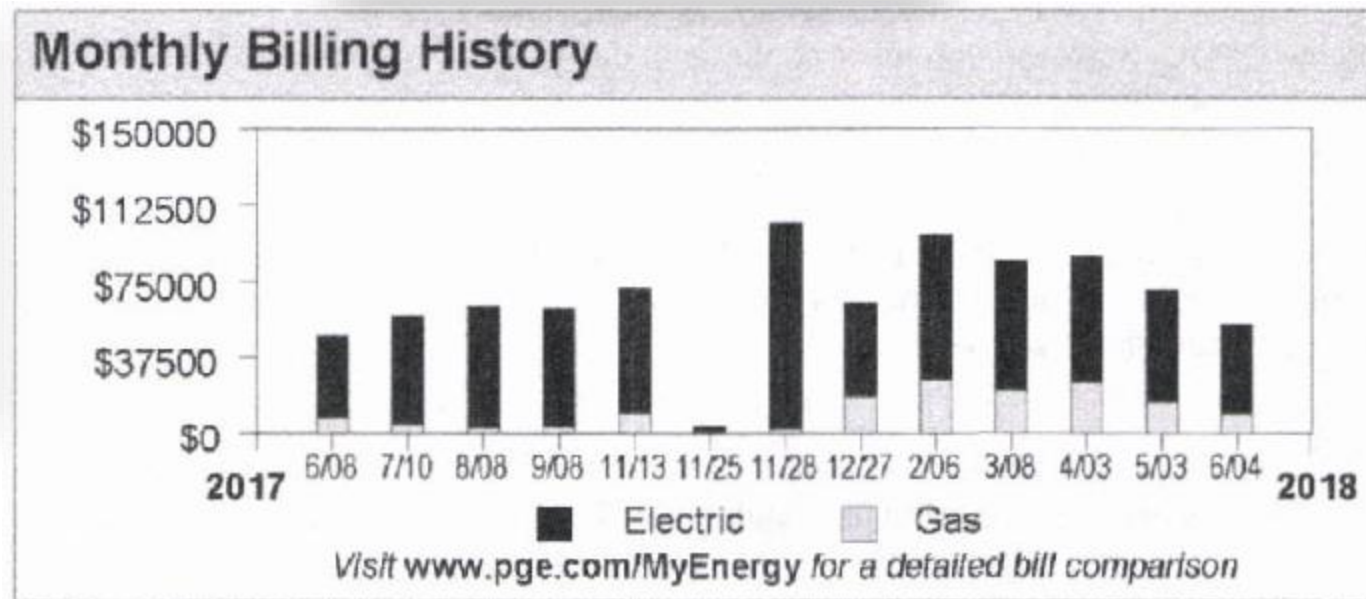
960 KWH Solar



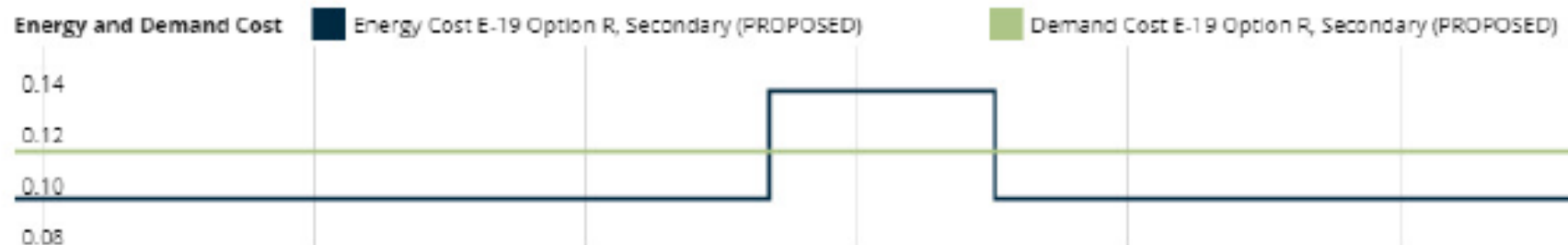
Maintenance

Mid Life Overhaul

Operations/Dispatch

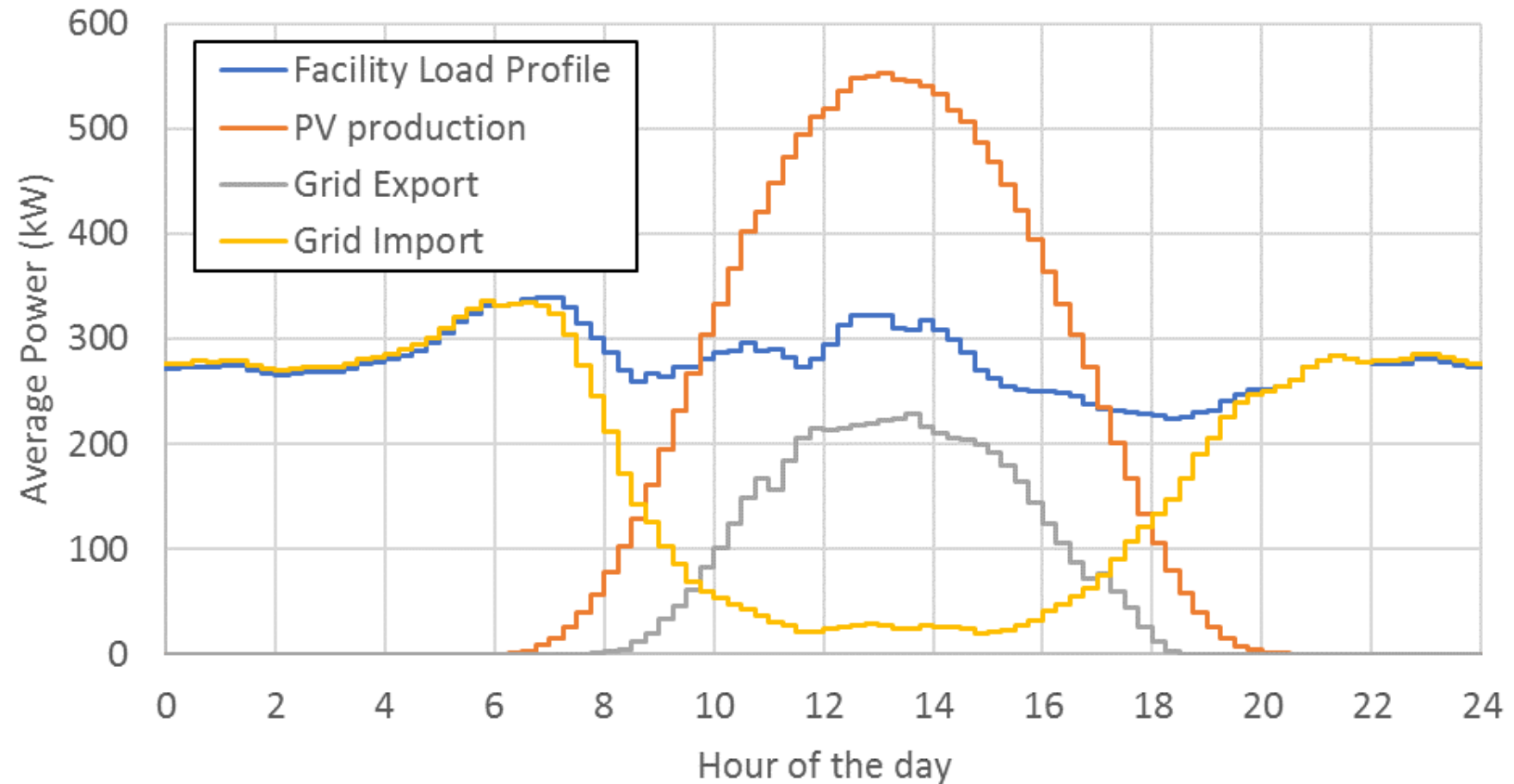


6 Smart Chargers



Look at PV production and usage at VTA Cerone bus yard

- Solar power almost completely covers the afternoon energy consumption, resulting in significant amount of export.

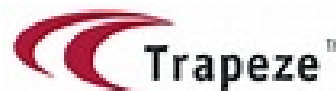


Vehicle to Grid Integration (VGI) Collaboration: PARTNERS

VTA working with Prospect Silicon Valley, and Bay Area tech companies to pilot a cutting-edge system that will **manage charging and energy consumption on electric buses** while **reducing the impact on the state's electricity grid**.

Funding from the California Energy Commission will serve as a major case study for transit agencies throughout the country

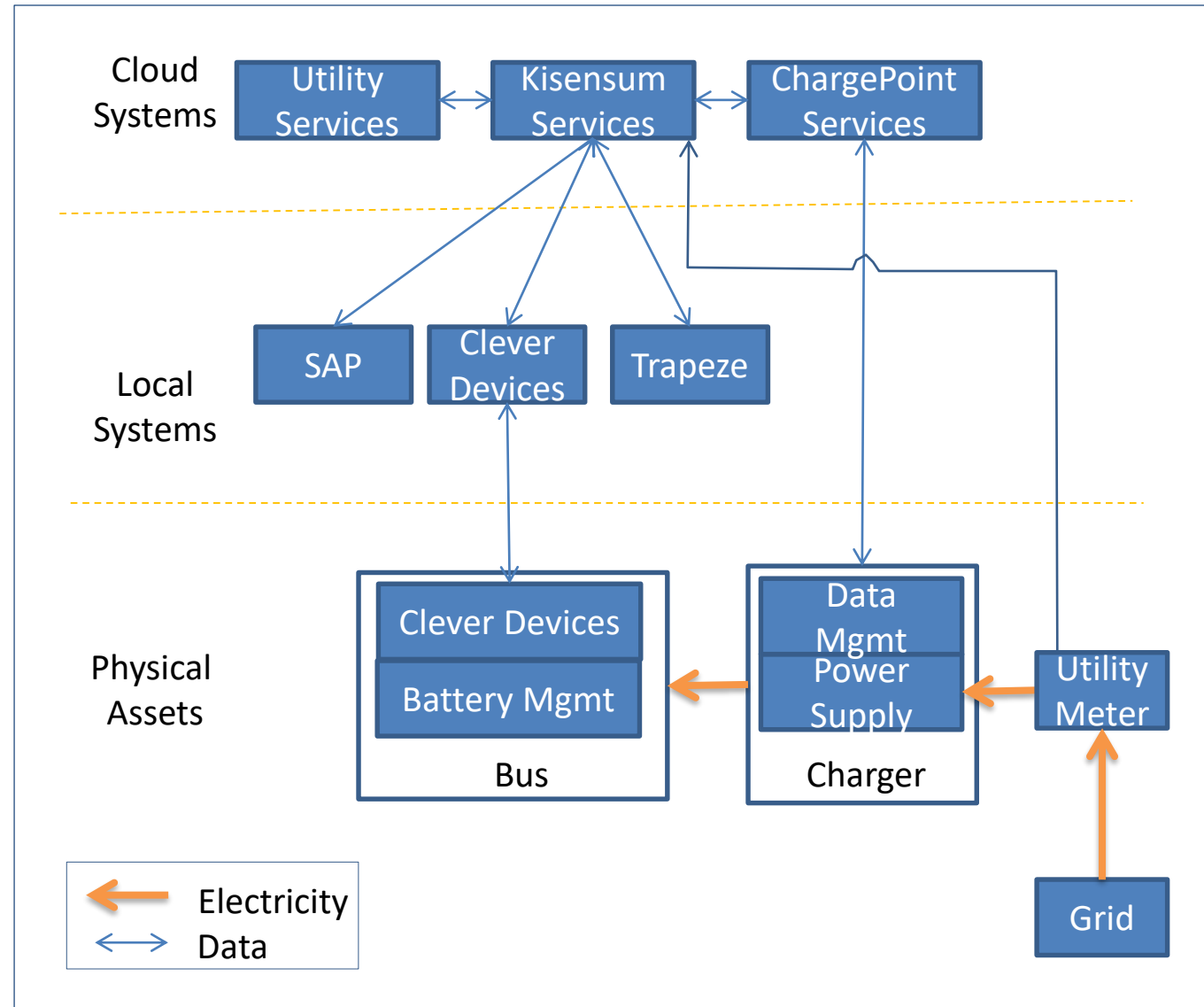
Connected & Making Real Time
Decisions



Solutions that move you

Primary Goals of the VGI Solution

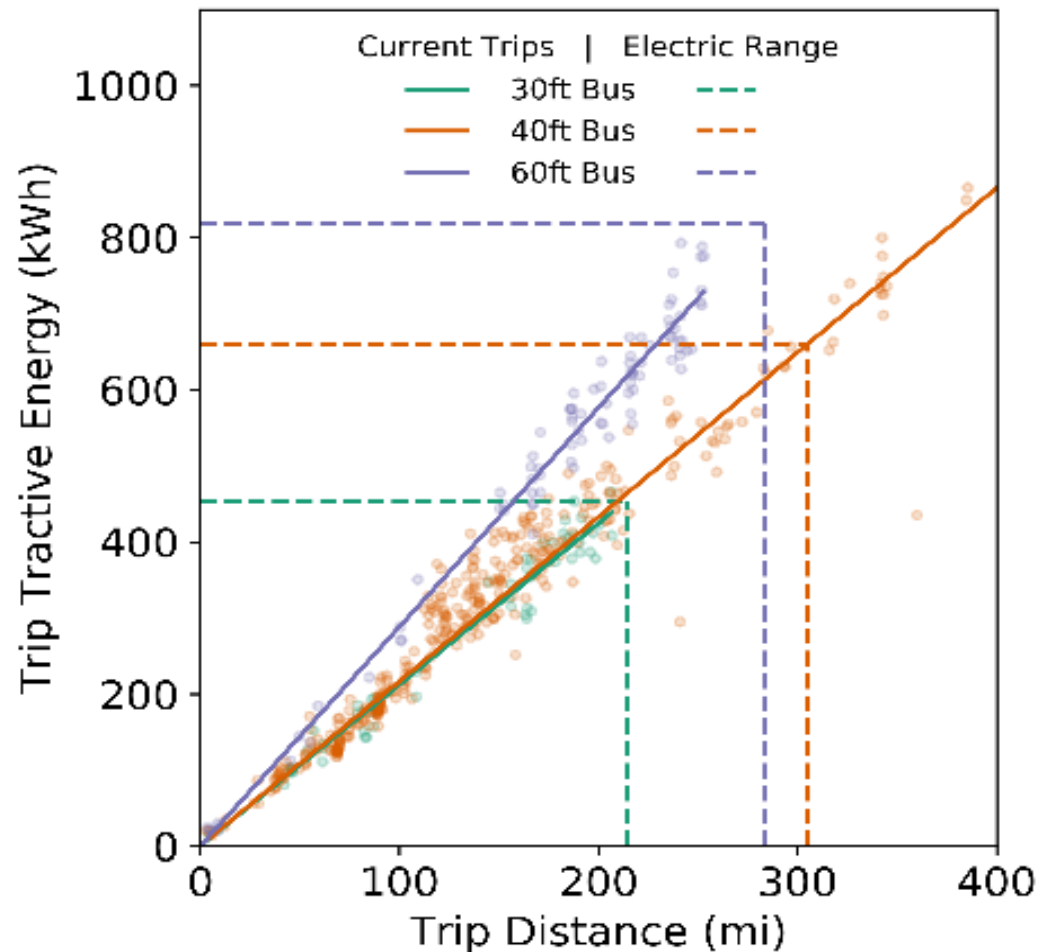
1. Ensure buses are charged and ready to go before pullout time
2. Provide visibility into charging process
3. Send alerts when issues in the charging process or during daily operation need to be addressed
4. Support the assignment of bus to block process
5. Minimize PG&E utility bill
6. Simulate Grid interactions with system
7. Simulate New Block & Charging Options



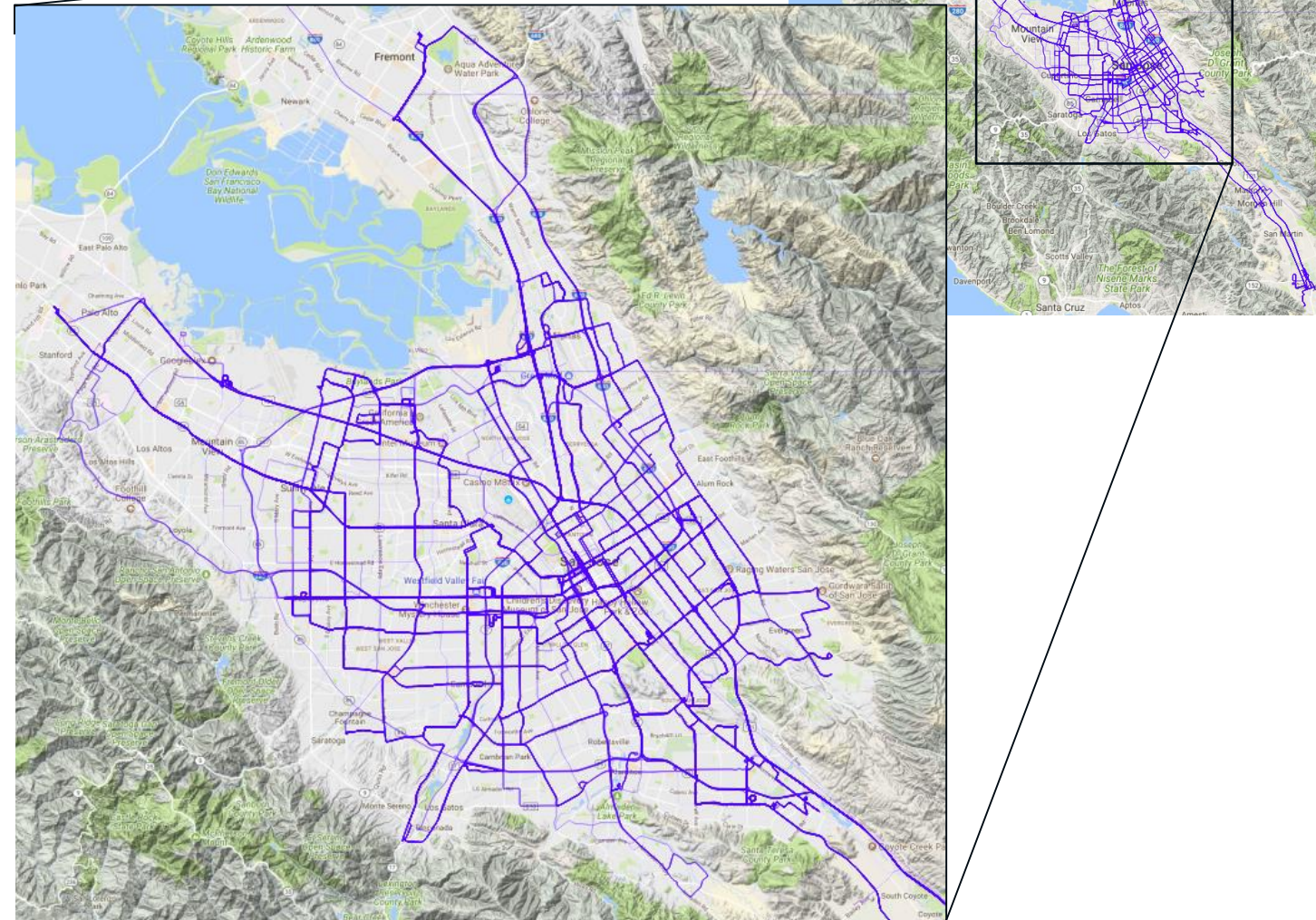
Data Collection (29 buses, 3 weeks, 12,934 miles)

Identify route energy requirements

- Some routes not suitable for electric buses with current technology



Map Of Collected Data



Characteristic bus trip patterns

- Created a set of characteristic bus trip patterns to explore the opportunities for current and future bus usage.
- Based on electric bus efficiency (~2kWh/mile) and usable energy capacity (350kWh), a bus can travel at most an average of 10.9 hours with one charge per day.

Start time	Hours of operation	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Extra Early	8	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Red	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Early	6	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Early	8	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Red	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Early	10	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Red	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Late	6	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Green	Green	Green	Green	Green	Green
Late	8	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Red	Red	Green	Green	Green	Green	Green	Green
Late	10	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Red	Red	Red	Green	Green	Green	Green	Green	Green
Double	6	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Green	Green	Green	Green	Green	Red	Red	Red	Green	Green	Green	Green	Green	Green
Double	8	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Green	Green	Green	Red	Red	Red	Red	Red	Green	Green	Green	Green	Green	Green
Double	10	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Green	Green	Red	Red	Red	Red	Red	Red	Green	Green	Green	Green	Green	Green
Full	11	Green	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Green	Green	Green	Green	Green	Green

So What is the Big Deal?

Data Flow & Connected

Core Application

EMP = Energy Management Platform

Inputs

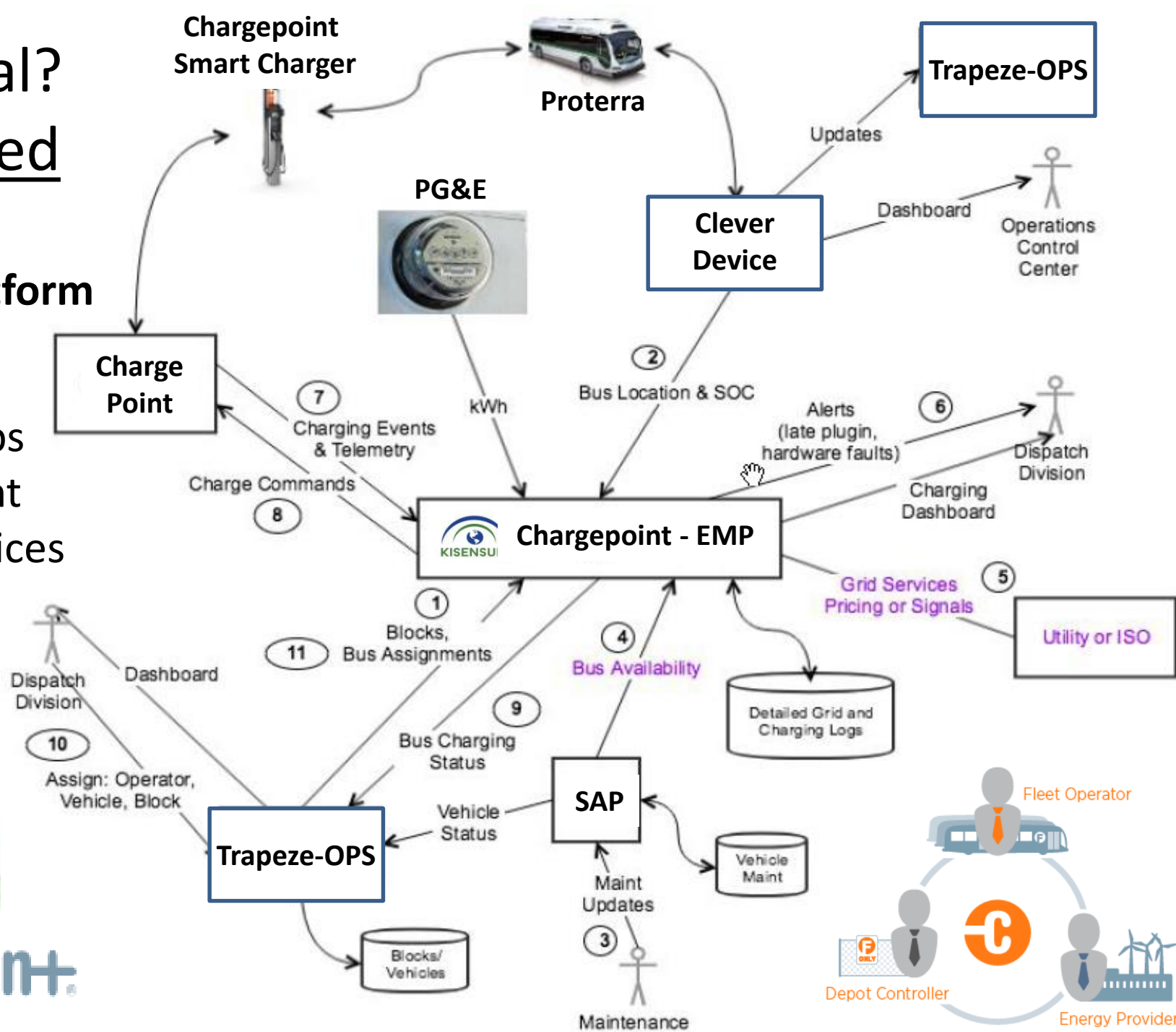
Trapeze-FX
Trapeze-Ops
SAP
ChargePoint
Clever Devices
Grid Signals
Electric Meter
Proterra Bus

Outputs

Trapeze-Ops
ChargePoint
Clever Devices
Operators



46



Monitoring the Vehicle while in the Field

Fleet Schedule / monitoring



Business Intelligence & API's

- Reporting
- Data mining
- Integration to other applications



47



Fleet Manager

- Configuration Management
- Service Management
- Performance Management
- Performance History



Electric Vehicle Monitoring System (EVMS) will communicate to all systems to report on EV usage and efficiencies.

On board system

- Interfaces to the Vehicle system
- Human Machine Interface HMI



What Are The Major Innovations?

- Creating charge plans that support more buses than charge stations
- Energy Management Platform that interoperates with VTA and Grid systems
- Dashboard and alerting system supporting vehicle Charging & operations
- Realtime cost minimization process through demand leveling and Time of use aware charging
- Performing Grid Service simulations while not jeopardizing the bus charging operations

VTA Dashboard

Chargers

Buses

Alerts

Reporting

Charger Details

All Available Charging

Charger	Bus #	Status	Estimated Completion	Power (kW)	SOC	Target SOC	Range	Target Range	Block	Next Bus
#0	0	charging	07:40 PM	8	58	63	97	14	841	146
#1	11	charging	07:21 PM	13	62	72	66	24	852	78
#10	-	error	-	-	-	-	-	-	-	-
#11	11	charging	05:36 PM	10	-	-	-	-	852	78
#12	12	charging	07:29 PM	11	-	-	-	-	853	112
#13	-	available	-	-	-	-	-	-	-	-
#14	-	available	-	-	-	-	-	-	-	-
#15	-	offline	-	-	-	-	-	-	-	-
#16	16	charging	06:24 PM	8	-	-	-	-	857	83
#17	17	charging	07:01 PM	7	-	-	-	-	858	114
#18	8	charging	04:58 PM	11	-	-	-	-	849	128
#19	19	charging	05:52 PM	10	-	-	-	-	860	46
#2	2	charging	05:01 PM	10	-	-	-	-	843	67
#20	10	charging	06:04 PM	5	-	-	-	-	851	94
#21	-	offline	-	-	-	-	-	-	-	-
#22	2	charging	05:46 PM	15	98	38	96	3	843	67
#23	-	available	-	-	-	-	-	-	-	-
			06:55 PM	10	13	86	83	27	845	64

127.0.0.1:3000/chargers/#chargingchargers

Dashboard: Charger Status



Expanded Solar



Smart Microgrid +
Second life Li-Ion
Energy Storage



Lars Peters

Director of Business Development, Public Agencies,
and Utilities

evGO

SVCE – WATTS FOR LUNCH

JANUARY 2019

LARS PETERS – DIRECTOR UTILITIES AND PUBLIC AGENCIES



Summary

- EVgo
- DCFC Evolution: Larger sites and faster speeds
- Market Acceleration: Rideshare and new EV models are changing the DCFC market
- The challenge

America's Largest Public Fast Charging Network



Develop | Finance | Own | Operate



Fast Charging for 8 Years

- 1,000+ 50kW-350kW DC Fast Chargers
- 34 states, 66 markets, 90% of EV Pop.
- >50% share of DCFC in US, non-Tesla

Powering the EV Revolution

- 100,000+ customers
- Enabling 100M+ all-electric miles
- Growth: Over 90% YoY

Evolution of EVgo Charging Stations



Gen 1 Charging Station
20-50kW single
charger + L2



Gen 2 Charging Station
50 kW
2-4 chargers



**Gen 3 Charging
Station/Plaza**
50-150 kW
4-40 chargers



Up to 350 kW in corridors



Electric Ride Share: Big Shift in Usage, Access and Clean VMT

Ride Share: 5-7x VMT almost all DCFC

APR 12, 2018 @ 08:49 AM 1,332

EVgo, Maven Gig Make It Easier To Fast Charge A Chevy Bolt EV



Sebastian Blanco, CONTRIBUTOR

I started covering green cars before the Tesla Roadster was a thing [FULL BIO](#)

Opinions expressed by Forbes Contributors are their own.



EVgo

Maven Gig, EVgo Bolt EV

Electrify Everything

DCFC is the standard for Medium- and Heavy Duty



City Transit Bus Repower

[Learn More](#)



Ford Transit 350HD Passenger Wagon

[Learn More](#)



Ford Transit 350HD Cargo Van

[Learn More](#)



Ford E-450 Shuttle Bus

[Learn More](#)



Ford E-450 Cutaway

[Learn More](#)

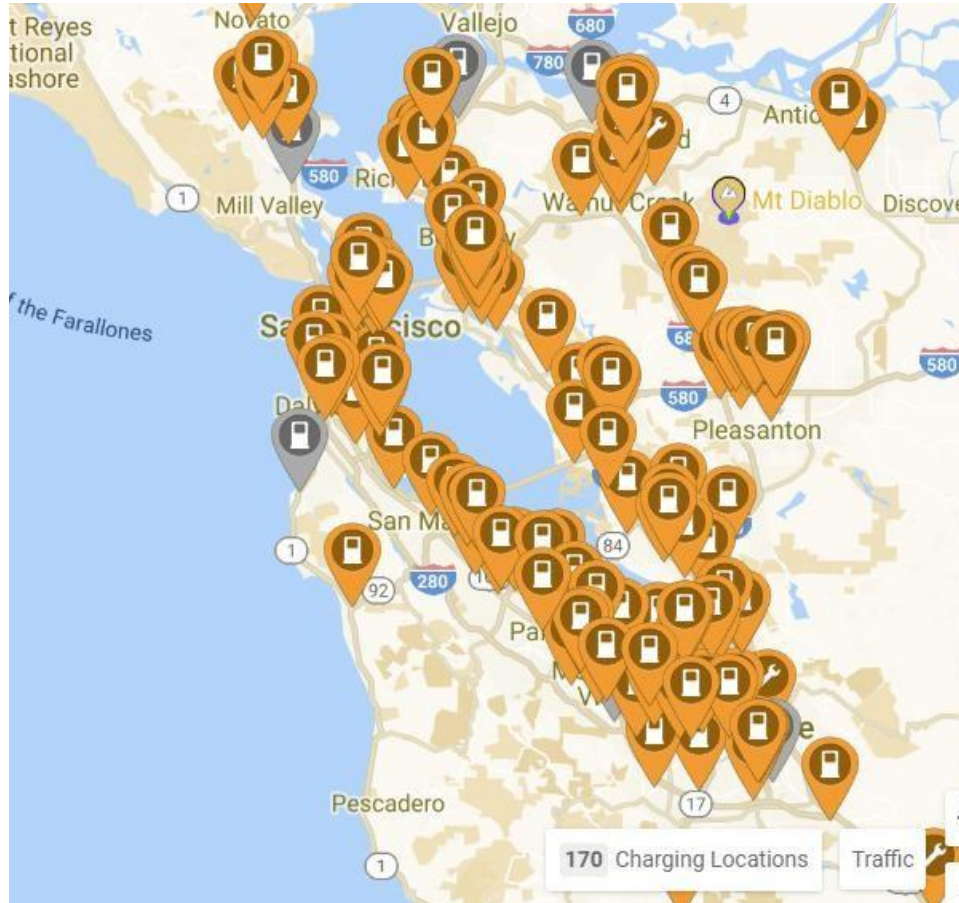


Class 6 Low Cab Forward

[Learn More](#)

The Challenge: 1,000 DCFC in the Bay Area by 2020

ICCT 2019 & Rideshare & MHD



Corporate campuses

- Employees without access to home charging
- Rideshare drop offs
- Caltrain shuttles
- Commuter buses

Public Agencies

- Visitors
- MUD
- Fleets

Retail

- Attract new customers
- Spent 4-10x on purchases



Let's Discuss...

... as we pick the brains of our
expert panel.

Watt Do You Think?

Interactive polling provided through your smartphone!

Please navigate to:

www.zeetings.com/SVCE



Don Bray

Director of Account Services and Community Relations

SVCE Update

2018 Community Benefits Summary



3.6 Billion kWh

Carbon-free energy delivered



266,500

Residential and business customers, a 97% participation rate



1.1 Billion Pounds

Carbon emissions avoided by providing clean energy



\$16.5 Million

On-bill dollar savings for SVCE customers



\$159,000

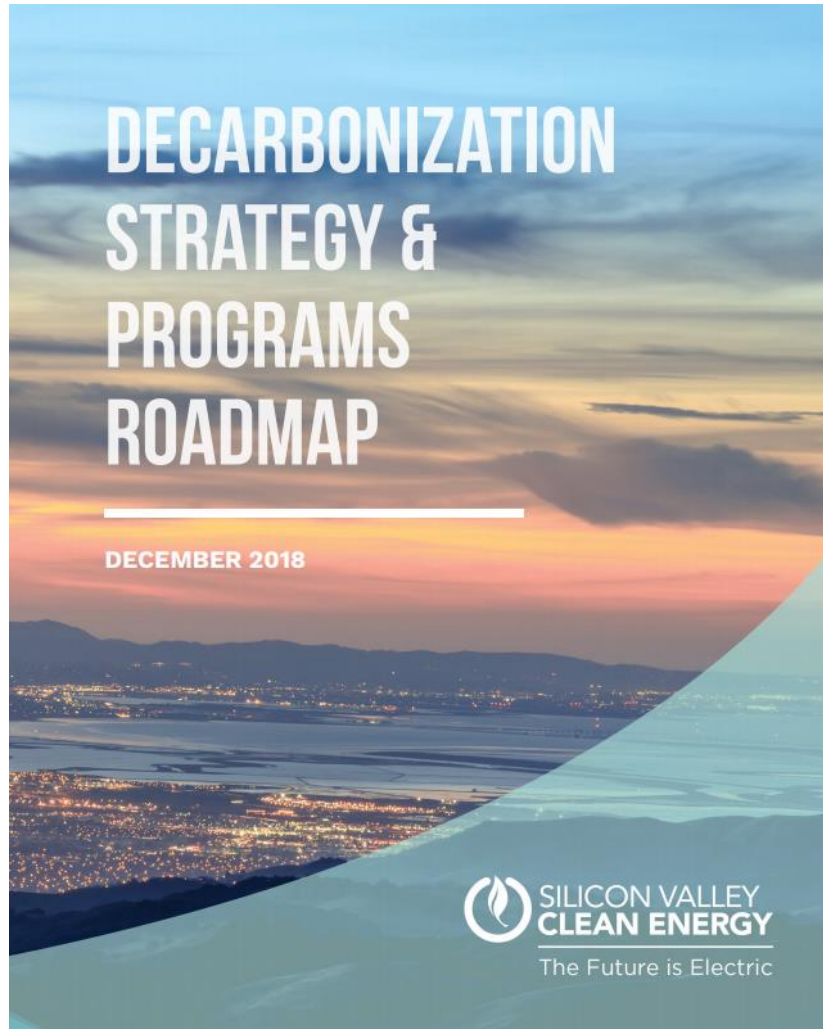
Cash payments to customers for generating extra solar energy



16.6%

Community-wide emissions reduction from 2015 baseline

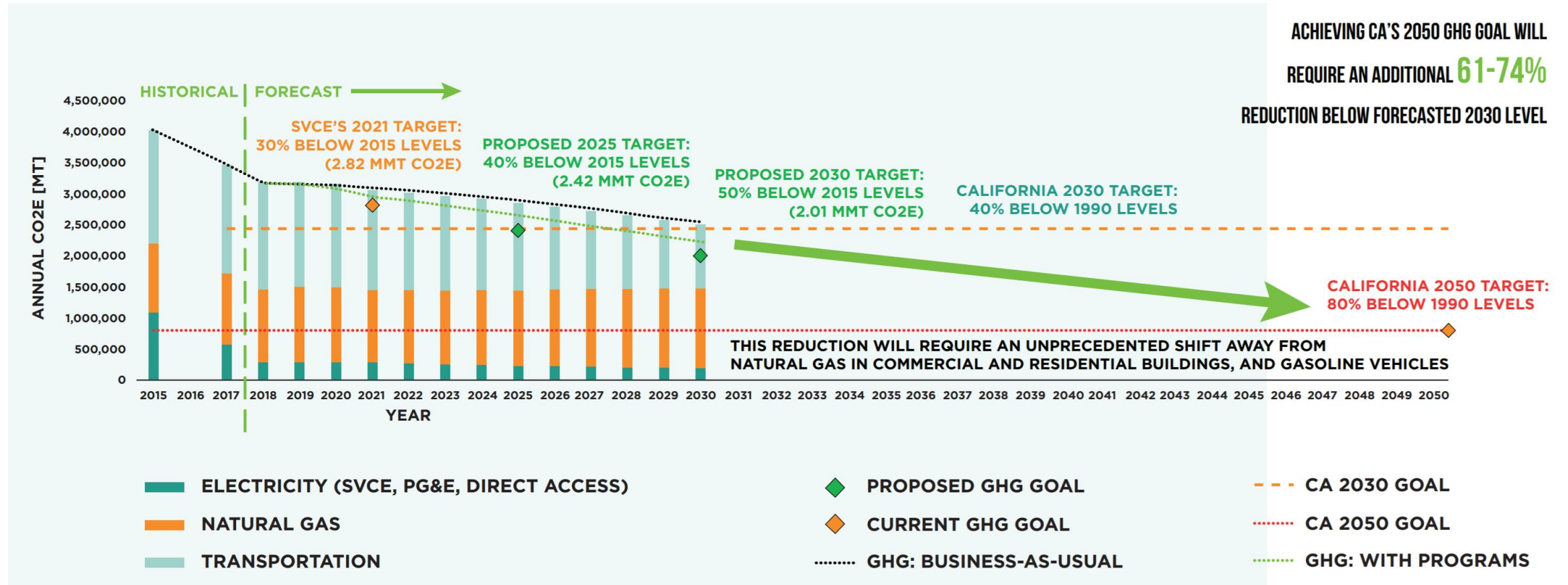
Decarb Strategy & Programs Roadmap



- Initial strategy and program plan to address SVCE GHG emissions goals:
 - **30%** below 2015 levels by 2021
 - **40%** below 2015 levels by 2025
 - **50%** below 2015 levels by 2030
- Consistent with member agency CAPs
- Re-visit goals annually based on GHG emissions inventory data

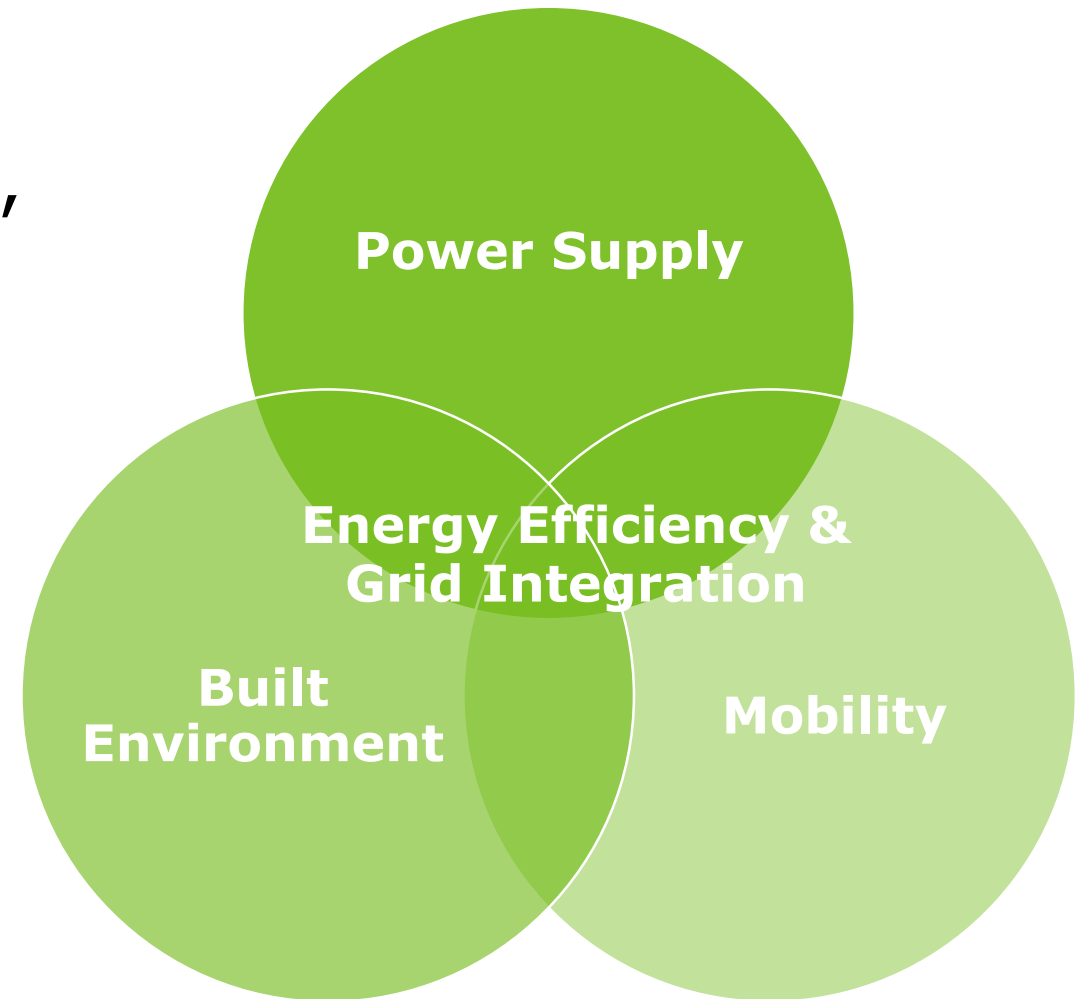


GHG Reduction Goals in Context . . .



Overarching Program Strategy

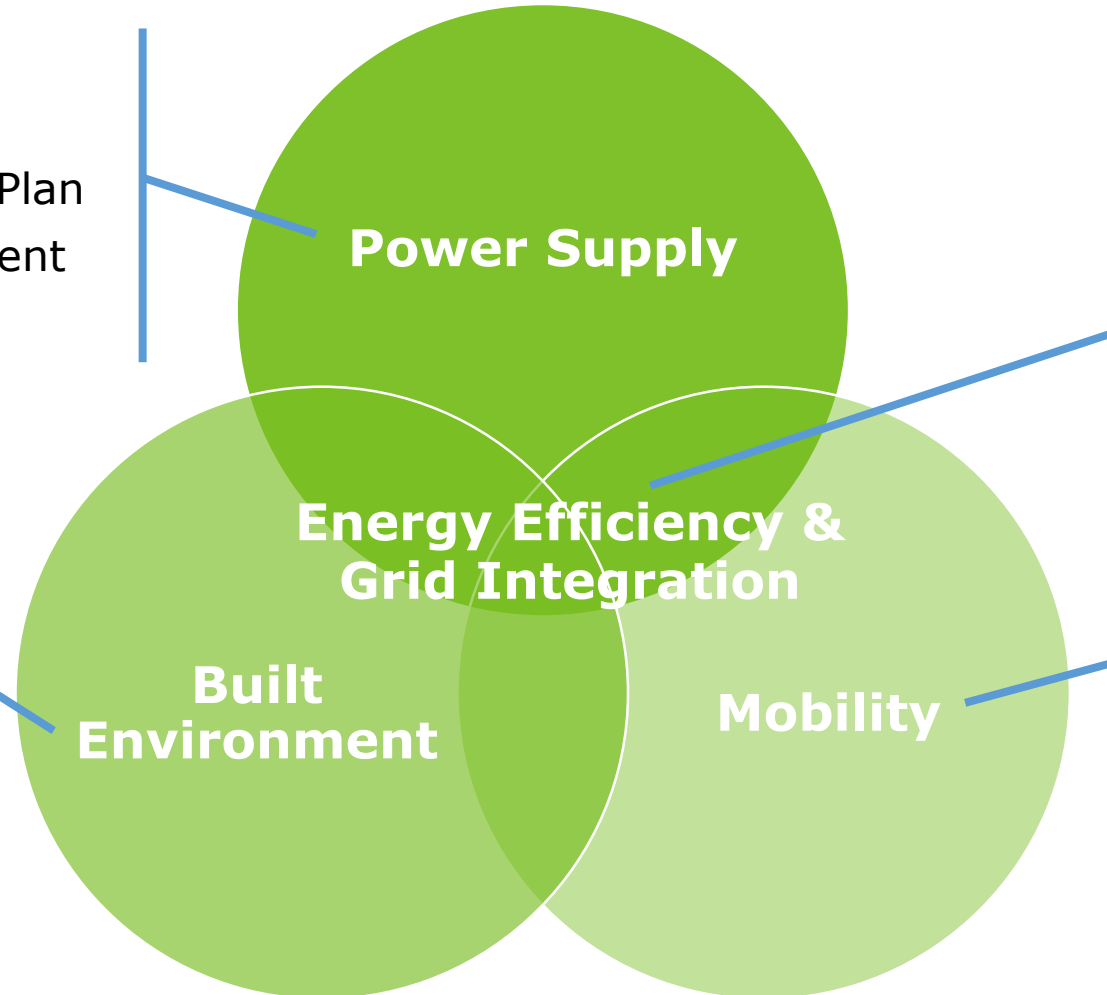
- Procure & maintain a sustainable, affordable and carbon-free **power supply**
- Electrify the **built environment** and **mobility**
- Promote **energy efficiency** & successful **grid integration**



SVCE Programs Portfolio

- **C&I Clean Power Offerings**
- Integrated Resource Plan
- Retail Rates Assessment
- Local Renewables

- **Reach Codes**
- **All-Electric Showcase Grants**
- **FutureFit HPWH**
- Streamlining Community-wide Electrification



Cross-Sector:

- **Innovation Partners**
- **Innovation Onramp**
- **Customer Resource Center**
- **Engagement Grants**

- **Virtual Power Plant**
- Non-SVCE Efficiency Programs
- **EVSE Strategy & Joint Action Plan**
- **EV Fast Charge Depot Pilots**
- EV Incentives for Low-Income
- EV Charging for Multi-Unit Dwellings

Color = 2019 Priority

Approved Program Budgets

Program	FY19-FY20 Budget Request
C&I Clean Power Offerings	\$150k in FY2019
Reach Codes	\$400k in FY2019
All-Electric Showcase Grants	\$1.5M over two-year period
FutureFit Heat Pump Water Heater	\$325k over two-year period
EV Infrastructure Strategy & Plan	\$200k in FY2019
EV Fast Charge Depots	\$700k over two-year period
Innovation Partnerships	(combined with Innovation Onramp budget request)
Innovation Onramp	\$1.2M over two-year period
Virtual Power Plant	\$1.1M over two-year period
Customer Resource Center	\$350k over two-year period
GHG emissions inventory update	\$100k in FY2019
Total	\$6,025,000



- Approved December 13, 2018 by SVCE BOD

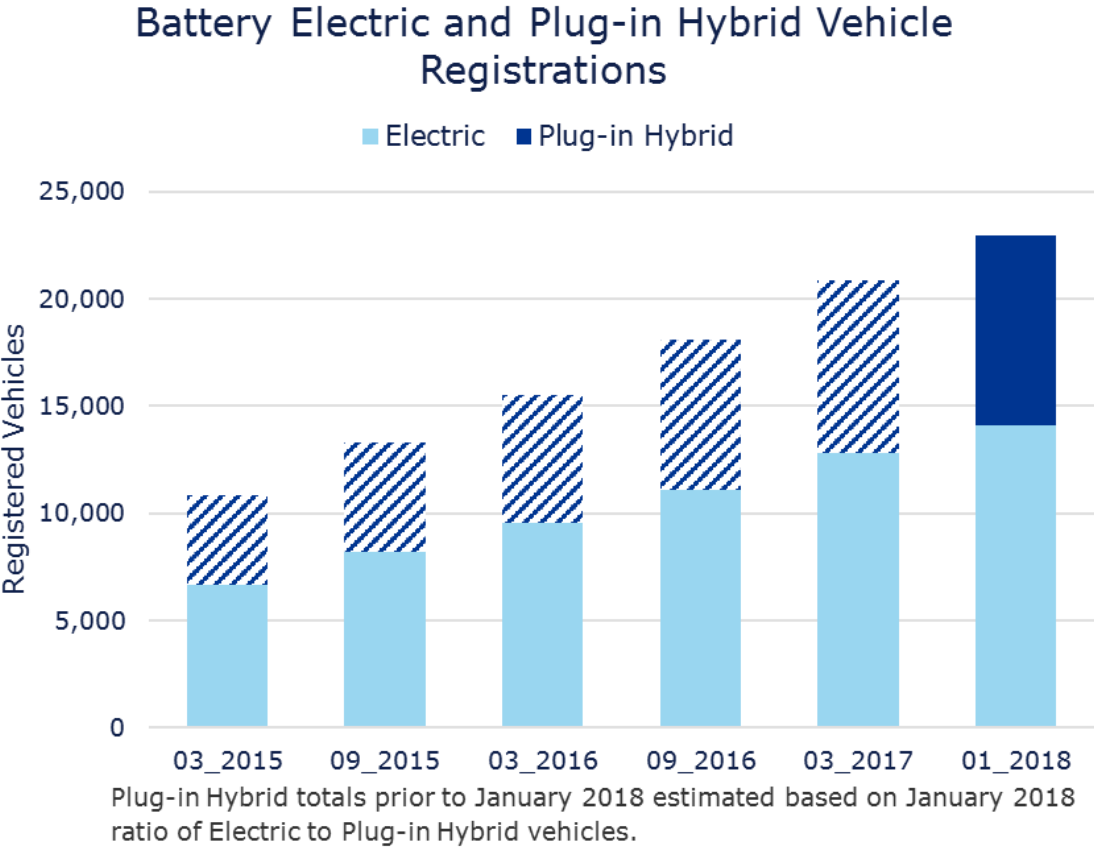


EVSE Strategy and Joint Action Plan

Work with member agencies and other local stakeholders to:

- determine current status of EVSE deployment, and future needs (e.g. 2025)
 - by use case and jurisdiction
 - for key enabling practices
 - critical barriers
- launch standing service-area EV/EVSE working group
- develop strategies for high-priority use cases, enabling practices (per 'DNZ')
- identify incentive/rebate programs, and plan for leveraging
- create detailed 'Joint Action Plan' for deployment, programs

Growing EVSE demand . . .



■ **Electric Vehicles have a double digit percentage growth rate every 6 months**

Existing PEV Fleet Distributed by County

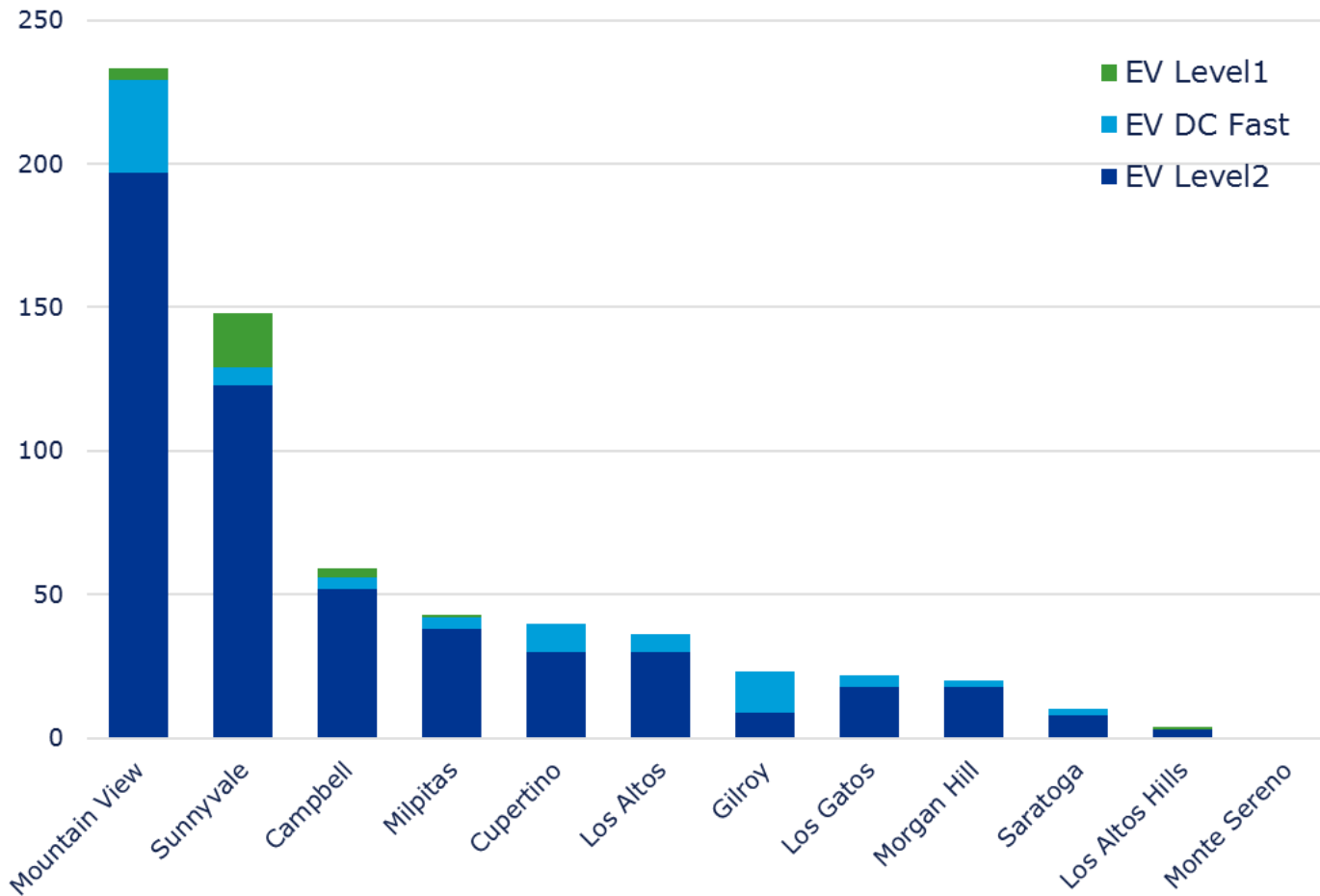
County	New EV Adoption Rates (2012-2016)
Alameda	3.82%
Monterey	0.83%
San Francisco	1.77%
San Mateo	2.59%
<i>Santa Clara</i>	<i>5.25%</i>

Data sources: State of California Dept. of Motor Vehicles Motive Power Biannual Report

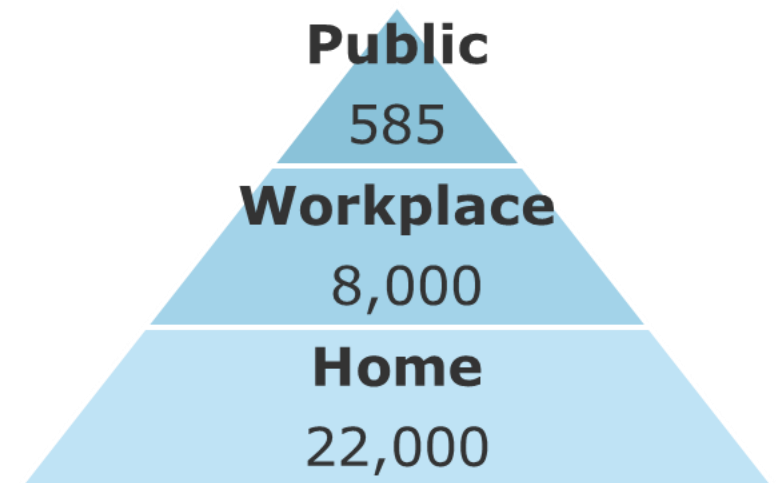


Understanding EVSE Deployment . . .

Published EV Chargers by City: 2017



Estimated Charger Count: 2017



Note:

- EV Charging companies reference only 5-10% of their charging network are published publicly.

Data sources: U.S. DOE Alternative Fuels Data Center (AFDC), ChargePoint, EVgo

Images excerpted from 2018 SVCE GHG and Energy Asset Inventory Study

EVSE Use Cases

- An effective regional EVSE Strategy must consider what's needed to support a range of important charging use cases

<u>Use Case</u>	<u>Levels</u>	<u>Charge</u>
Fleet - Public/Private Transit	L3	100 kWh+
Fleet - Transportation Network	L3	50 kWh+
Corridor	L3	35 kWh+
Fleet - Public/Private Vehicles	L2	15 kWh+
Destination/Retail	L2	5 kWh+
Workplace - Large	L2	10 kWh+
Workplace - Small/Medium	L1, L2	10 kWh+
Multi Unit Dwelling (MUD)	L1, L2	10 kWh+
Single Family Residential	L1, L2	10 kWh+

EVSE Enabling Practices

- Implementation of key enabling practices will help to accelerate regional deployment of EVSE

<u>Enabling Practices</u>	<u>Example</u>
Regional Coordination	Sustain a regional working group to focus on EVs
Funding Support and Incentives	Create a process or mechanism to streamline pursuit of grants
Education and Outreach	Provide resources online
Building/Zoning/Parking Codes	Require pre-wiring for EVSE in building code
Permitting	Streamline EVSE permitting process
Planning and Land Use	Integrate EV readiness into broader local planning efforts
Electric Rates	Deploy more beneficial EV electric rates through SVCE
Vehicle/Grid Integration (VGI)	Control EVSE to shift charging times to off-peak
Innovation	Support emerging technologies and pilots

Available EVSE Funding and Resources

Examples:

- BAAQMD: \$5M annually for public/private organizations in Bay Area
- PG&E: \$130M over three years for L2 charging MUD and workplaces in CA
- PG&E: \$236M over five years for medium- and heavy-duty EV fleet charging
- VW: \$153M over next three years, targeting metro areas in CA (other funding also available through VW)
- CEC: \$2M loan and financing program for small businesses and landlords
- CALeVIP*: ~\$40M available annually

CALeVIP Funding

Major program funded annual by California Energy Commission, and implemented by Center for Sustainable Energy (CSE)

- L2 and L3 chargers
- Estimated \$40M in funding annually as a part of \$200M program total
- SVCE plans to pursue an application:
 - partner with PCE and BAAQMD, among others
 - suggest matching funding
 - SVCE to submit a letter of intent
 - SVCE staff going to BOD in February with budget request
 - develop regional plan to submit with partners

PG&E FleetReady Program

EVSE rebates for transit, school bus, and sites in disadvantaged communities; not to exceed 50% of charger cost

EVSE Rebate:

Power output	Rebate for eligible customers
Up to 50 kW	50% of the cost of EVSE, up to \$15,000
51-150 kW	50% of the cost of EVSE, up to \$25,000
150+ kW	50% of the cost of EVSE, up to \$42,000

Infrastructure Incentives:

Incentive option

- All customers are eligible if they meet minimum eligibility criteria
- Customers owning the make-ready infrastructure will receive:
- An infrastructure incentive for the lesser amount of either 80% of the customer's costs – OR –
- Incentive amounts capped by sector:
 - **Buses = \$9k / vehicle**
 - **TRU = \$3k / vehicle**
 - **Other = \$4k / vehicle**

Customers will be considered for additional infrastructure support based on site specific conditions and program objectives

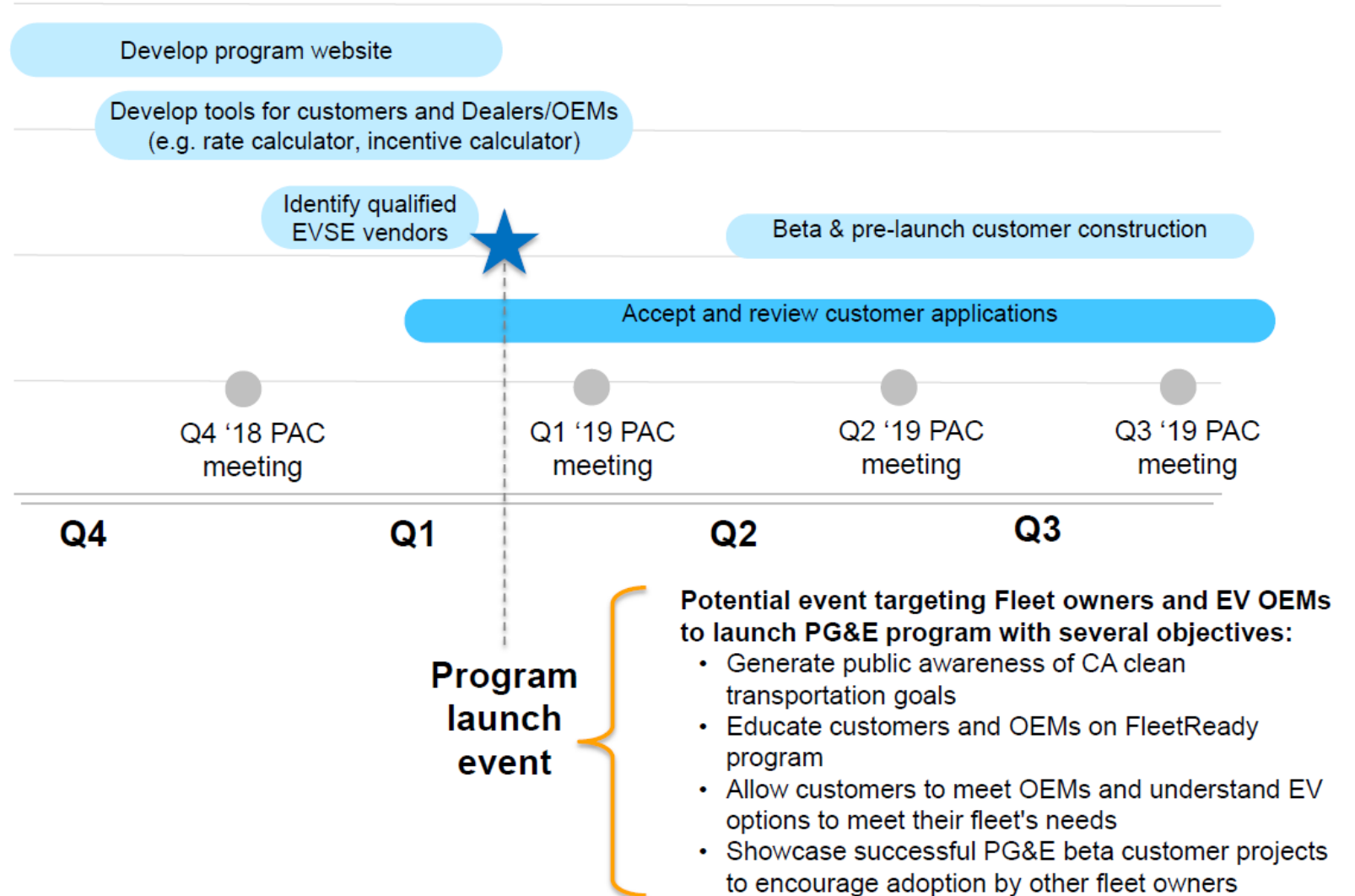
PG&E owned option

- Sites that apply to FleetReady will also be reviewed for eligibility for PG&E ownership of make-ready
- Review will take into account site cost and number of vehicles deployed
- OEM partners and PG&E sales leads will be provided with guidelines regarding site characteristics making eligibility more probable (e.g. trenching distance, average power levels)

PG&E FleetReady Program

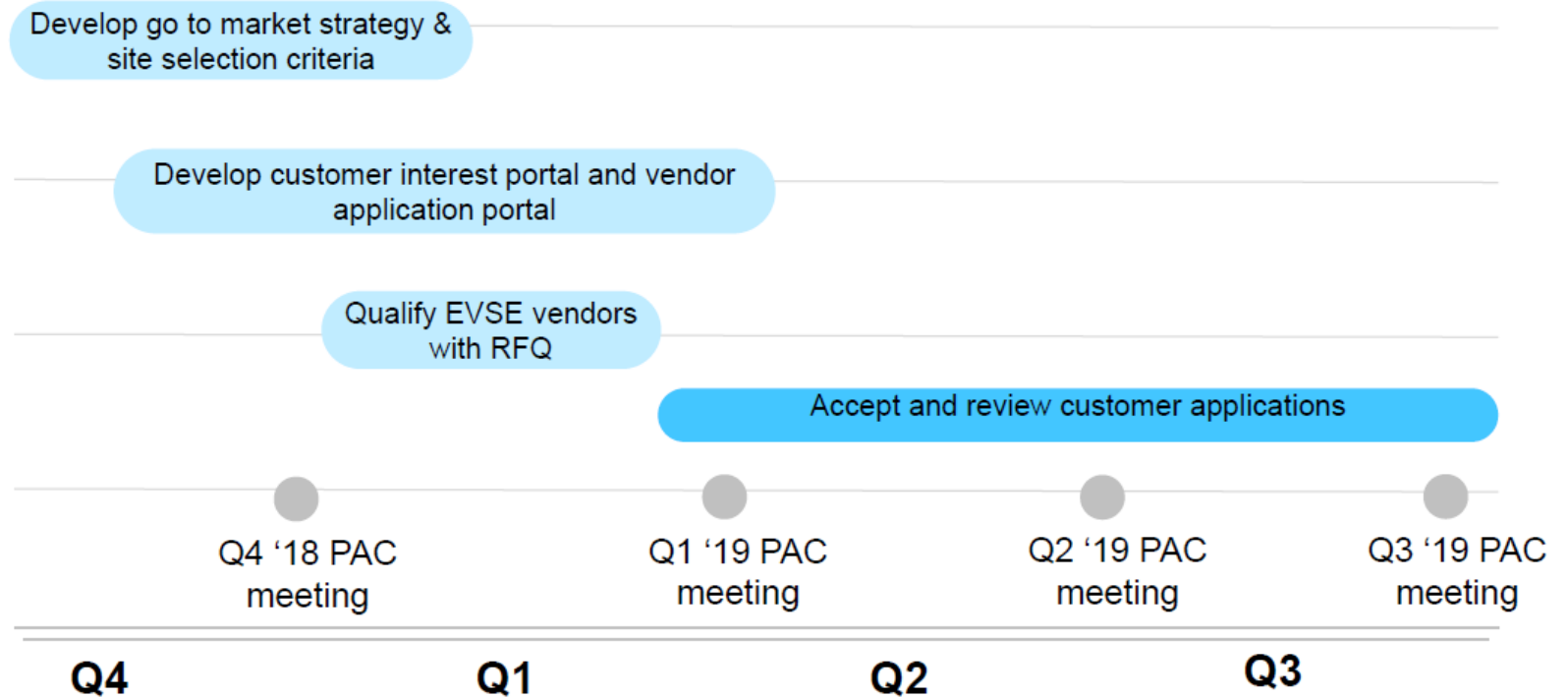
Next Steps:

- Complete Beta
- Launch website
- Hold launch event
- Initiate charging station vendor RFQ
- Build online tools
- \$236M program



PG&E DCFC EVSE Rebate

- PG&E to offer rebate up to \$25k per EVSE
- At least 25% “in or adjacent to disadvantaged communities” (not to exceed costs)
- \$22.4M program



Program details

- Customers express interest in program through website
- Approved EVSE vendors listed on website for customer consideration
- Once customer selects approved EVSE vendor, vendor submits complete application on behalf of customer

*Image from PG&E Dec 2018 presentation

Some EVSE Next Steps . . .

- Provide input to EVSE Joint Action Plan via interviews/focus group participation
- Involvement/support in SVCE's CALeVIP grant application
- Channel questions to SVCE re current EVSE/Fleet programs
- Identification/participation in SVCE DCFC Depot Pilots
- Others?

In other news . . .

- SVCE annual rate update likely in May/June timeframe
- New commercial Time-of-Use rates in 2020
- SVCE establishes two new solar + storage PPAs
 - Recurrent Energy – RE Slate Project in Kings County, CA
82.5 MW / 99 MWh
 - EDF – BigBeau Solar Project in Kern County, CA
70 MW / 88 MWh
- No service interruptions!
- Questions?

Next 'Watts' Meeting....



Thank You!!!



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Electric**