

DOCKETED

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Docketed Date:	7/14/2021



**California Energy Commission
Business Meeting
July 15, 2021
10:00 a.m.**



Pledge of Allegiance



**I pledge allegiance to the Flag
of the United States of America,
and to the Republic for which it stands,
one Nation under God, indivisible,
with liberty and justice for all.**



California ISO

Sign up for
#FlexAlert notifications



FLEX
ALERT



Remote Compliance

Business Meeting held remotely, consistent with **Executive Orders N-25-20 and N-29-20** and the recommendations from **California Department of Public Health** to encourage physical distancing to slow spread of COVID-19.

For remote participation instructions visit **CEC's Business Meetings webpage:**

<https://www.energy.ca.gov/proceedings/business-meetings>

If Zoom's toll-free phone numbers don't work:

- **Dial: (669) 900-6833**
- **Meeting ID: 938-6923-0237**



Public Comment Instructions

- Pursuant to **California Code of Regulations Title 20 §1104(e)**, any person may make oral comment on any agenda item.
- Comments may be limited:
 - **to 3 minutes** or less
 - **1 representative** per organization
- Any person wishing to comment on information items or reports (non-voting items) shall reserve their comment for the general public comment portion of the meeting agenda.

Zoom App/Online

Click “raise hand”

Telephone

Dial (669) 900-6833 or (888) 475-4499 Enter Webinar ID: 938 6923 0237

- Press *9 to raise hand
- Press *6 to (un)mute

When called upon

Public Advisor will open your line

Unmute, spell name and state affiliation, if any, for the record, then begin your comments



Item 1 a.: Consent Calendar

a. Cuberg, Inc. Contact: Josh Croft



Item 2: ACKNOWLEDGING THE CONTRIBUTIONS OF MUOI-LYNN TRAN

Linda C. Barrera, Chief Counsel
Chief Counsel's Office



Item 3: Russell City Energy Center: Petition for Temporary Safety Modification

July 15, 2021 Business Meeting

Presented by Elizabeth Huber, CME Office Manager
John Heiser, Compliance Project Manager
Jared Babula, Lead Counsel
Siting, Transmission and Environmental Protection Division



Benefits to Californians

- Responds to California's urgent need for additional capacity
- Allows black-start BESS for Summer 2021's net peak demand





Overview and Key Milestones

Date	Action
9/11/02	CEC approved license
10/3/07	Petition to relocate project 1,300 feet from original location approved
8/8/13	Power plant came online
2/20/19	Black-start BESS installed
6/3/21	Petition for temporary safety modification filed
6/18/21	Staff approved project change report posted for public comment



Temporary Safety Modification

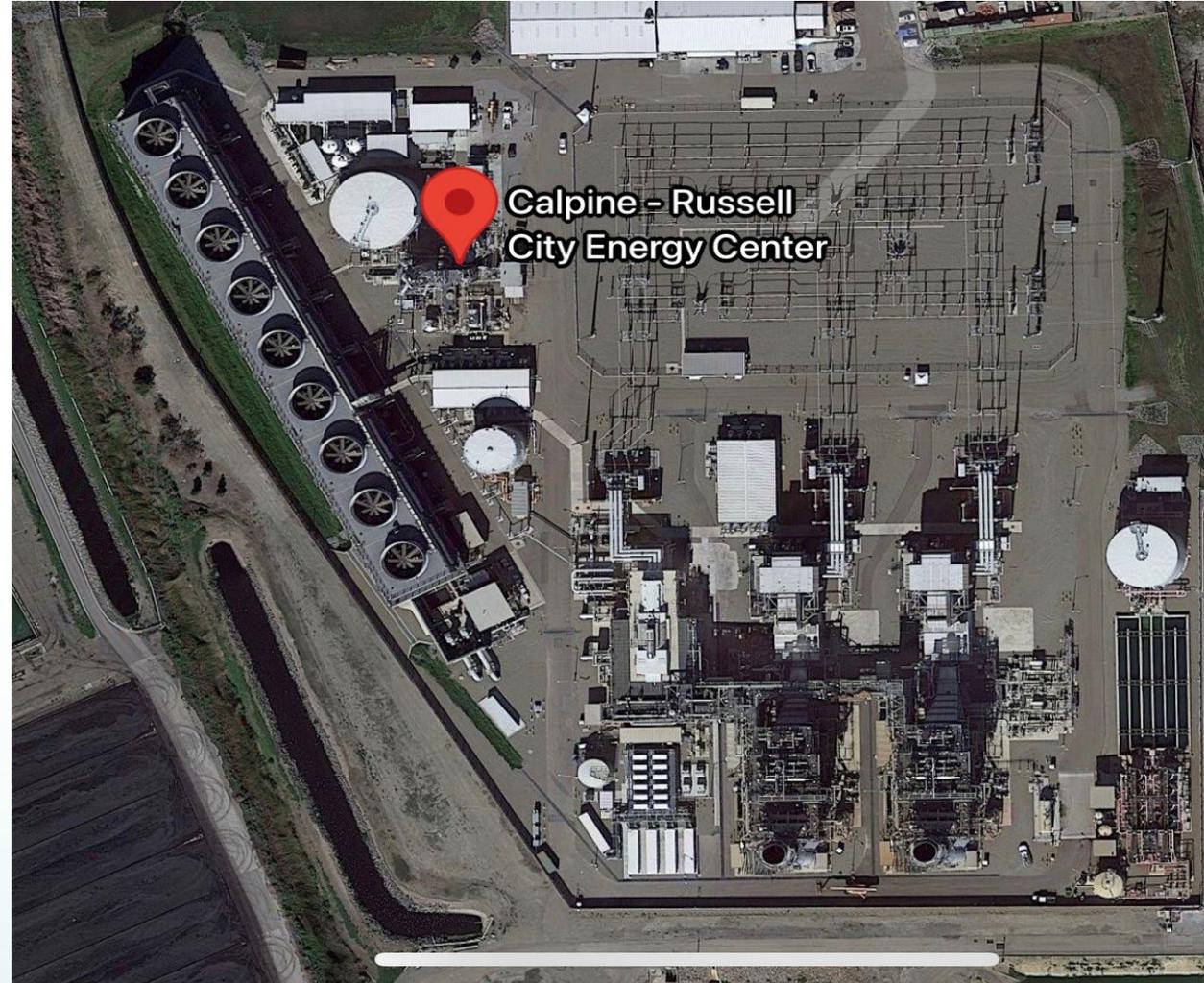




Temporary Safety Modification

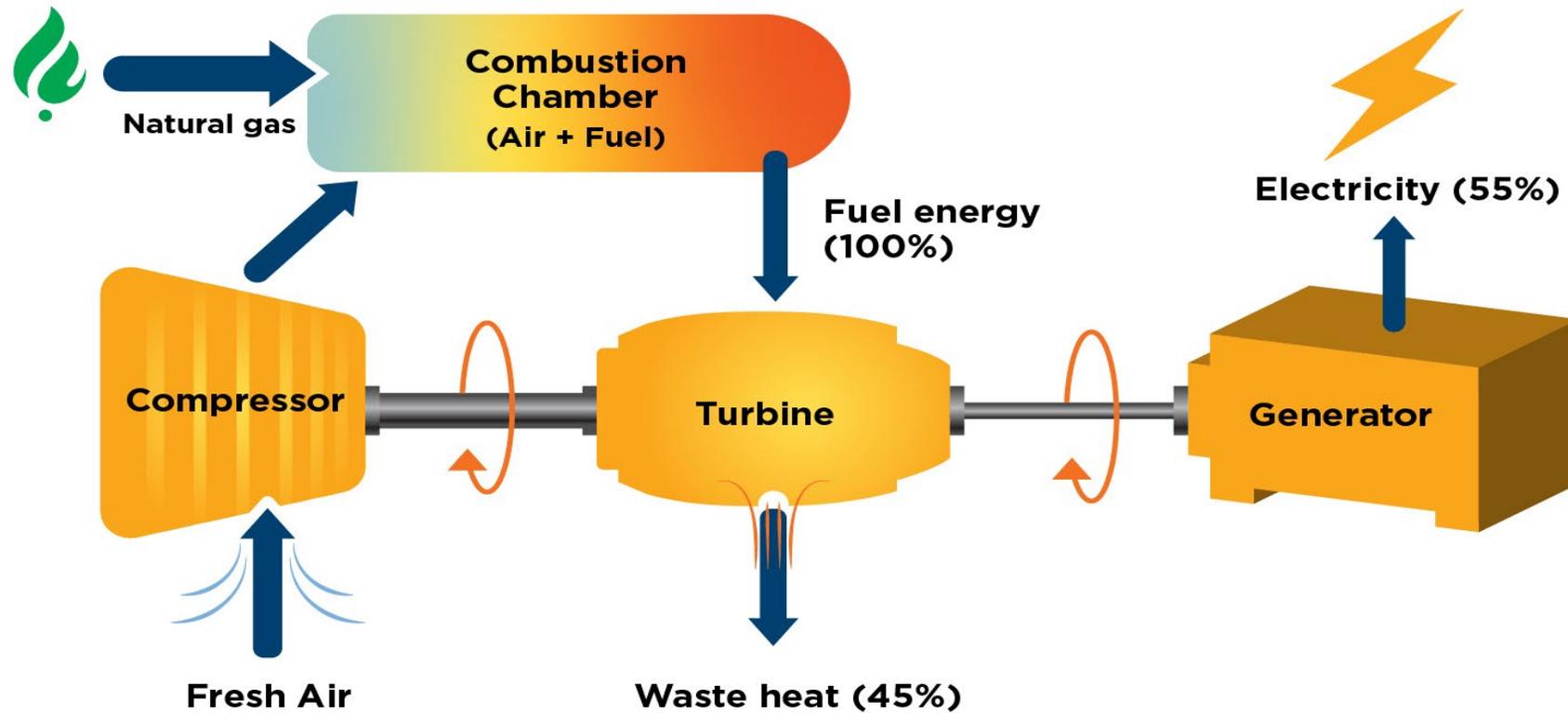
Activities:

1. Install isolating plate
2. Install rupture disk
3. Install pressure relief vent to condenser
4. Retrofit for simple-cycle





Turbines in Simple-Cycle Mode





Staff Recommendation

- Approve proposed temporary safety modification.



Item 4: Appliance Efficiency Regulations for Portable Electric Spas (20-AAER-04)

July 15, 2021 - Business Meeting

Jessica Lopez, Air Resources Engineer
Efficiency Division, Appliances Office



Overview of Rulemaking

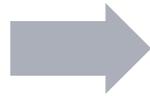
- Amend existing portable electric spa regulations
- Will not affect existing performance standards
- Exempt under CEQA
- Key Dates:
 - 45-day comment period: May 14 - June 28
 - Public Hearing: June 29



Background

2004

- **First spa regulations adopted in CA**



2014

- **Industry publishes APSP-14 version 2014**



2018

- **CA updates spa regulations**
- **Based on 2014 industry standard**

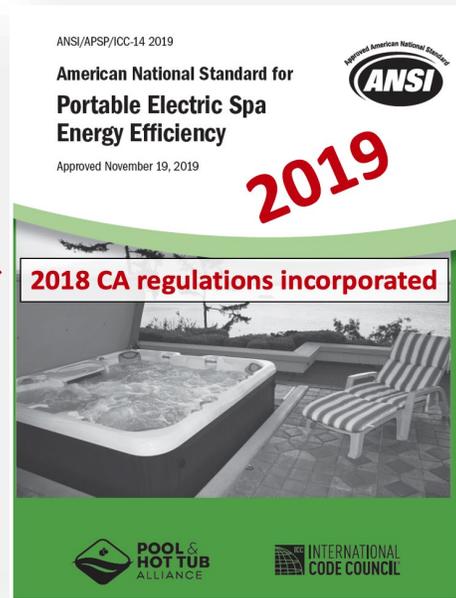
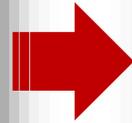
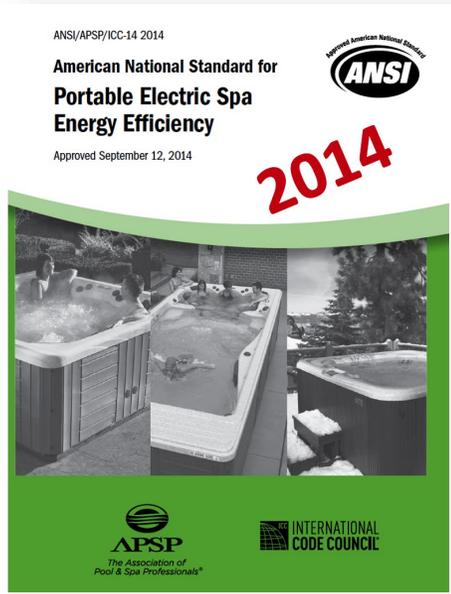


2019

- **Industry publishes APSP-14 version 2019**
- **Incorporates 2018 CA updates**

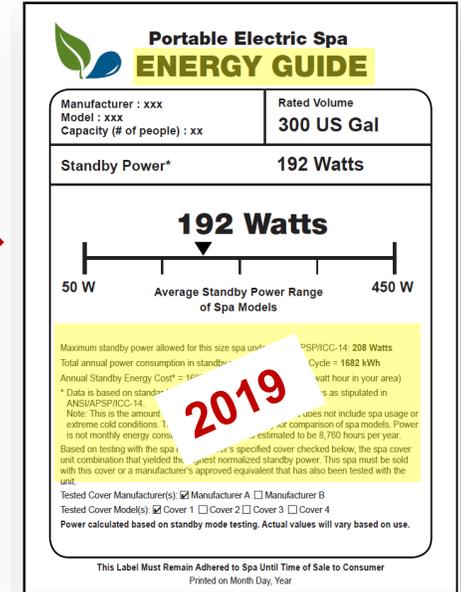
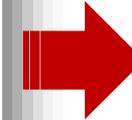
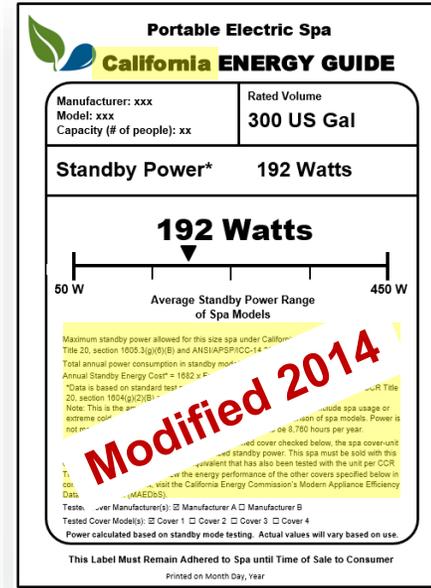


Proposed Amendments



Updates to standard:

- Simplifies test lab certification
- Clarifies labeling instructions



Updates to label:

- Removes "California" from title
- Removes CA regulation references



Staff Recommendation

- Adopt regulations amendments
- Adopt finding of CEQA exemption



Item 5: Blueprints for MD/HD ZEV Infrastructure (GFO-20-601)

July 15, 2021 Business Meeting

Kate Reid, Air Resources Engineer
Fuels and Transportation Division
Advanced Fuels & Vehicle Technologies Office, Freight & Transit Unit



Benefits to California

Will Enable:

- Roadmaps for large-scale infrastructure projects
- Resiliency planning
- Best practices
- Lessons learned for replicability
- Process to meet Zero-Emission Vehicle (ZEV) regulations





Project Overview

East Bay Community Energy (ARV-21-003)

- Infrastructure for Class 3-8 trucks for goods movement
- Benefits disadvantaged communities (DACs) surrounding I-80, I-580, and I-880





Project Overview

Center for Transportation and the Environment (ARV-21-005)

- Infrastructure for up to 24 battery-electric school buses with Stockton Unified School District
- Located in & benefits DACs





Project Overview

Ontario International Airport Authority (ARV-21-006)

- Infrastructure for electric ground support equipment at Ontario International Airport
- Located in low-income, DAC





Project Overview

Los Angeles Cleantech Incubator (ARV-21-008)

- Infrastructure for charging depots adjacent to I-710 freight corridor to San Pedro Bay Ports
- Benefits DACs surrounding San Pedro Ports & I-710





Project Overview

STC Traffic (ARV-21-010)

- Charging for San Diego County freight & goods movement, focused on Independent Owner Operators
- ZEV infrastructure benefits local DACs



Zero-emission drayage trucks deployed at the Port of San Diego



Project Overview

United Natural Foods, Inc. (ARV-21-011)

- Infrastructure for 12 CA distribution centers and/or warehouses
- Implementation provides direct benefits to surrounding disadvantaged and low-income communities.

UNFI
BETTER FOOD. BETTER FUTURE.





Project Overview

Kern Council of Governments (ARV-21-012)

- Infrastructure for zero-emission trucks and buses
- 81-90% of Kern County qualifies as DACs





Project Overview

San Francisco Department of the Environment (ARV-21-013)

- Infrastructure for MD/HD ZEV fleets, particularly with 50 or fewer vehicles
- Benefits DACs





Project Overview

Grossmont Union High School District (ARV-21-016)

- Infrastructure for conversion of 67 diesel-fueled school buses to fully electric fleet
- Benefits disadvantaged and low-income communities





Staff Recommendation

Approve

- 9 grant agreements

Adopt

- Staff's determination that projects are exempt from CEQA



Item 6: BESTFIT Innovative Charging Solutions – GFO-20-605

July 15, 2021 Business Meeting

Matt Alexander, Air Pollution Specialist

Fuels and Transportation Division, Advanced Vehicle Infrastructure Office



Benefits to Californians

- Innovation
- Customization
- Commercialization



Source: CalMatters



Source: EVmatch

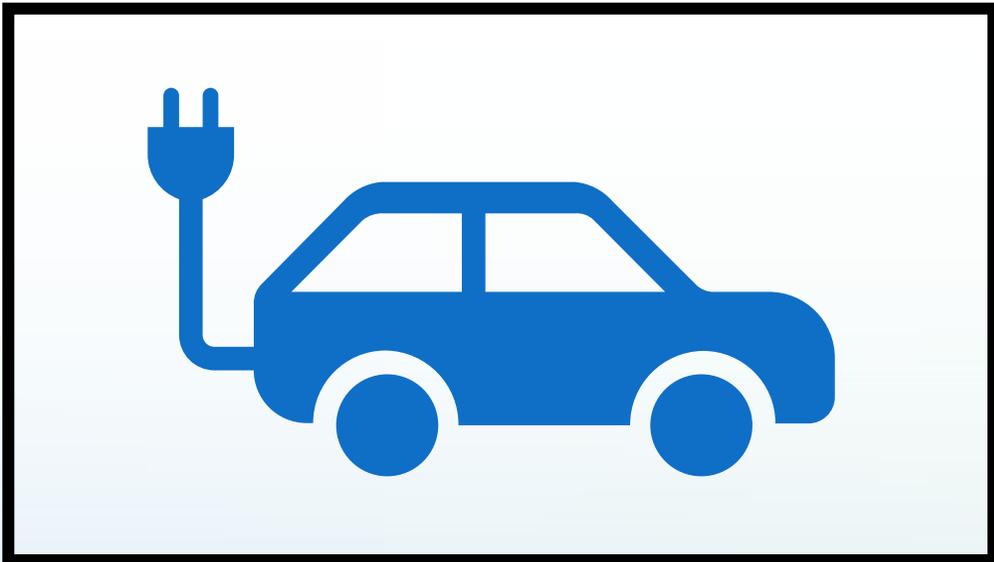


Source: Electrek



Overview

- Sought charging solutions for light-, medium-, and heavy-duty vehicles
- 5 proposed light-duty agreements





HummingbirdEV (ARV-21-001)

Vehicle-to-vehicle mobile charging solution

- Partnering with AAA Northern California to serve East Bay drivers



Key Project Benefits:

- Rescue stranded vehicles
- Reduce range anxiety
- Avoid expensive towing



EVmatch, Inc. (ARV-21-002)

Shared, reservable charging stations on multi-family properties

- 120 Level 2 chargers



Key Project Benefits:

- Easy to use and manage
- Accelerate equitable EV adoption



FLO Services USA, Inc. (ARV-21-004)

Use existing power for curbside charging

- 7 sites using 4 types of utility equipment

Key Project Benefits:

- Minimize installation costs and grid impacts
- Increase access for those without home charging

1) Street Pole



2) Transformer



3) Underground Vault



4) Street Light





PowerFlex Systems, Inc. (ARV-21-009)

Automated load management paired with battery storage

- Serve diverse group of drivers at UC San Diego



Key Project Benefits:

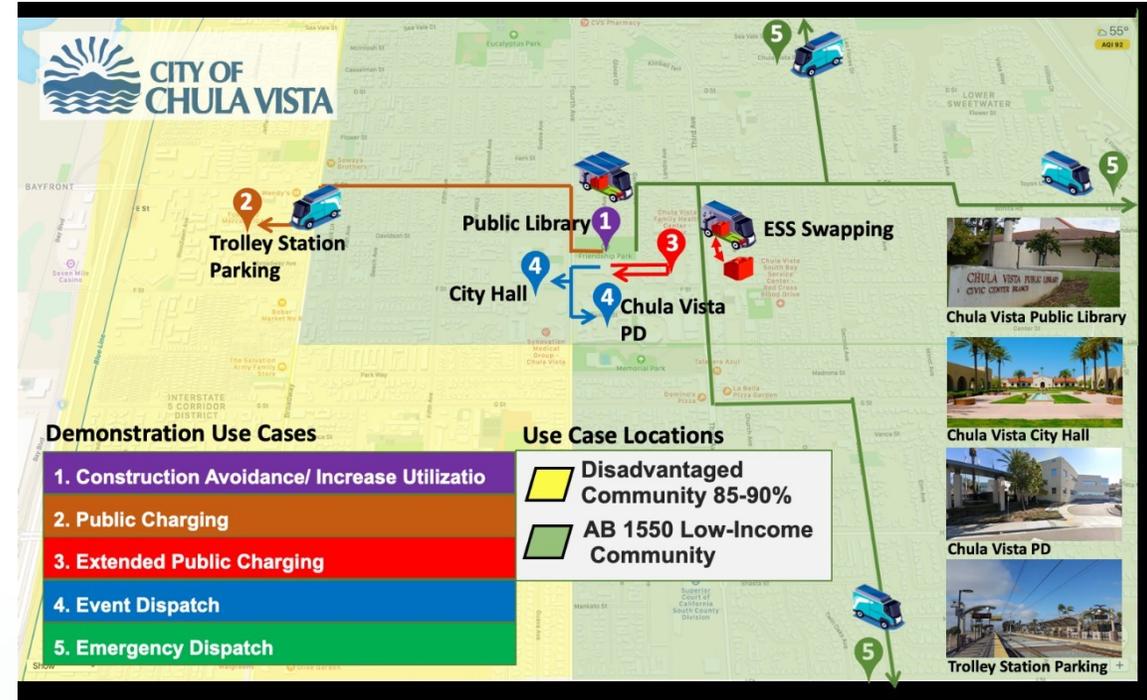
- Minimize installation costs and grid impacts
- Increase access for those without home charging



Rhombus Energy Solutions, Inc. (ARV-21-015)

Mobile Charging with Solar and Storage

- Charge 4 vehicles at once



Key Project Benefits:

- Demonstrate innovative technology
- Flexible solution for variety of use cases



Staff Recommendation

- Approve 5 agreements
- Adopt staff's determination that action is exempt from CEQA



Item 7: Zero-Emission Drayage Truck and Infrastructure Pilot Project (GFO-20-606)

July 15, 2021 Business Meeting

Marc Perry, Energy Commission Specialist I
Fuels and Transportation Division
Advanced Fuels & Vehicle Technologies Office, Freight & Transit Unit



Benefits to California

Enables:

- Reduced emissions
- Economic development
- Large-scale infrastructure demonstrations
- Resiliency and replicability



Project Overview

South Coast Air Quality Management District (ARV-21-014)

- Construct 50 DCFC
- Solar-powered DER
- 2 fleet locations in DACs
- Workforce training & development

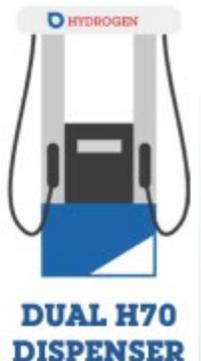




Project Overview

The Center for Transportation and the Environment (ARV-21-017)

- Hydrogen station for 22 fuel cell trucks
- Fueling station located in DAC
- Workforce training & development





Staff Recommendation

Adopt

- Projects are exempt from CEQA

Approve

- Agreement with SCAQMD for \$10,964,955
- Agreement with CTE for \$9,185,045



Item 8: Mobile Renewable Backup Generation – GFO-20-310

July 15, 2021 Business Meeting

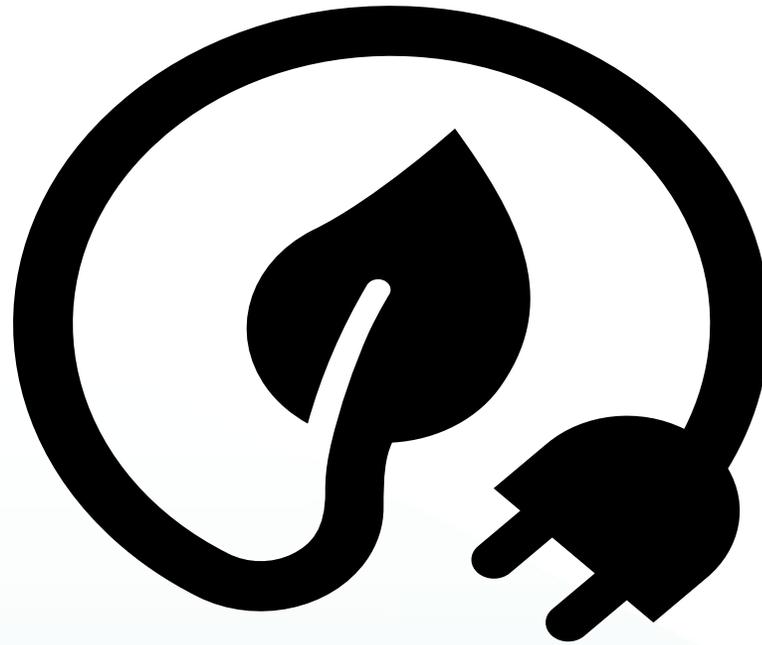
Quenby Lum, Associate Energy Specialist
Energy Research and Development Division
Energy Systems Research Office



Benefits to Californians

Advances:

- Reliability
- Resiliency
- Safety
- Equity





Solicitation Background

- Fund technologies for mobile renewable backup generation.
- Clean emergency backup power solutions to offset or replace fossil fuel diesel generators.
- Support communities during Public Safety Power Shutoffs, wildfire events, and other grid outage events.



Overview

Systems under 10kW	Systems 10kW or higher
GRID Alternatives	Electric Power Research Institute
	One-Cycle Control
	Uprise Energy



GRID Alternatives

- Battery and solar PV
- 4kW output
- 4-hour recharge from outlet, 6-8 hours from 1.5kW solar PV
- ~15 minutes set up/take down
- Indoors, outdoors, from vehicle
- Small footprint for storage



Photo credits: Onyx Power



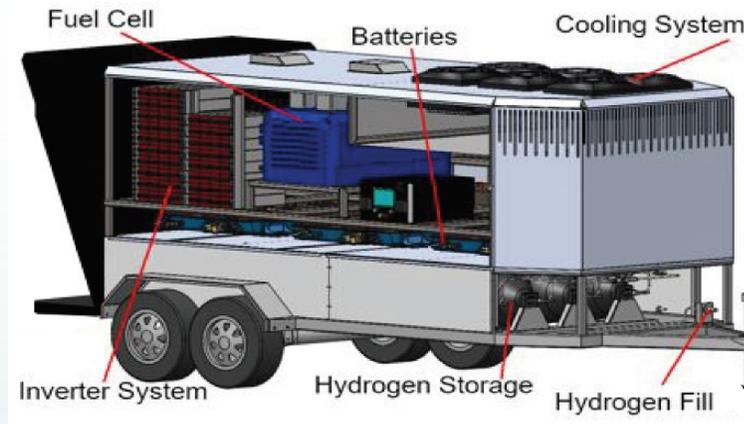


Electric Power Research Institute

- Hydrogen fuel cells, hydrogen storage tank, and battery storage
- 35 kW of continuous operation for 24+ hours, with peak power capacity of 180 kW



carrier - external view

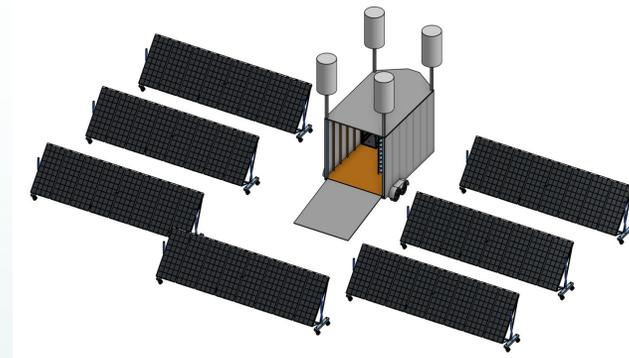
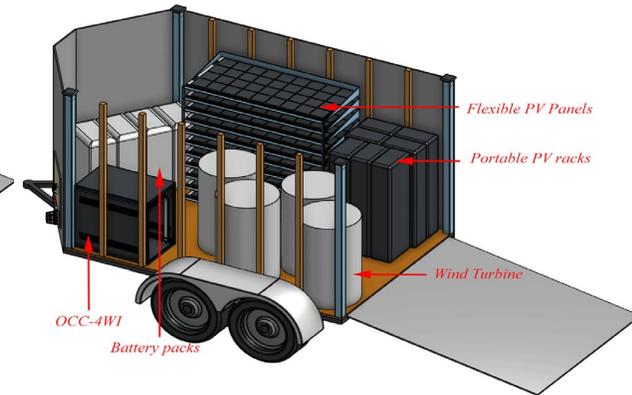
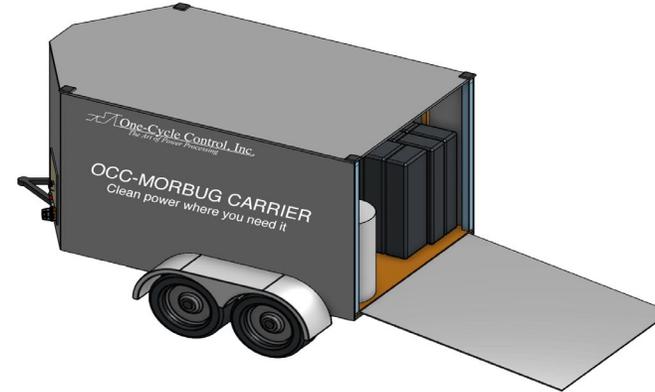


carrier - internal view



One-Cycle Control

- 15kW with wind, solar and battery.
- Electronic device or vehicle charging during normal grid operations.
- Complete setup/take down in 30 mins by 2 trained technicians.





Uprise Energy

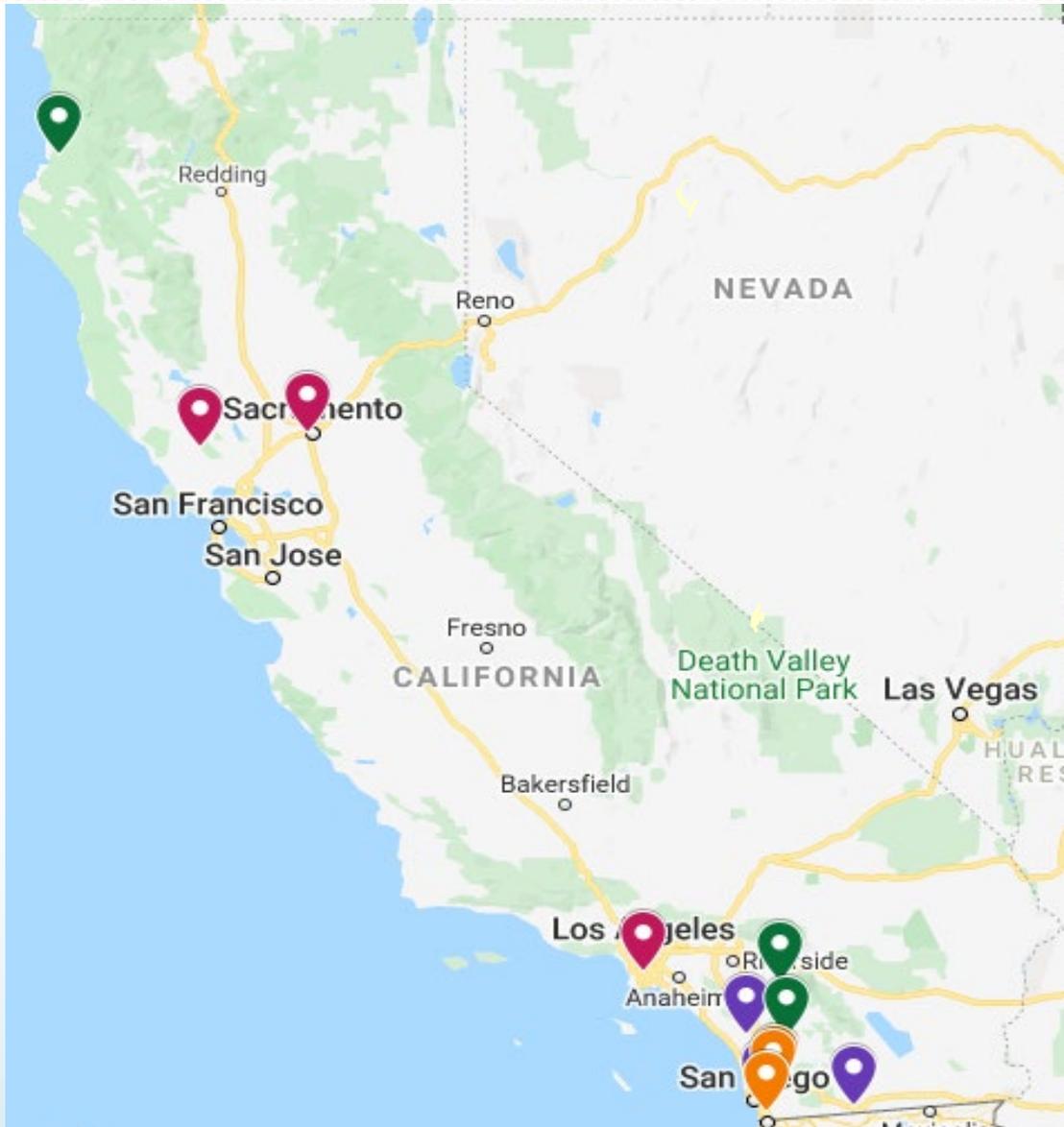
- Wind turbine with solar PV and battery.
- 10 kW up to 14 hours (140 kWh) with no recharge. Up to 30 hours with wind + solar.
- Quick deployment for emergency response.



Photo credit: Uprise Energy



Demonstration Sites



Legend	Color
GRID Alternatives	Green
Electric Power Research Institute	Red
One-Cycle Control	Orange
Uprise Energy	Purple



Staff Recommendation

- Approve 4 grant agreements.
- Adopt staff's determination that action is exempt from CEQA.



Item 9: Local Ordinance Applications (19-BSTD-06)

July 15, 2021 Business Meeting

Danuta Drozdowicz, Efficiency Specialist
Efficiency Division, Building Standards Office



Benefits to California

Jurisdictions that adopt local ordinances:

- Are living laboratories for a clean energy future
- Reduce greenhouse gas emissions
- Lead from the grassroots



1 IN 3
CALIFORNIANS

**lives in a community with
an energy code exceeding
state standards**



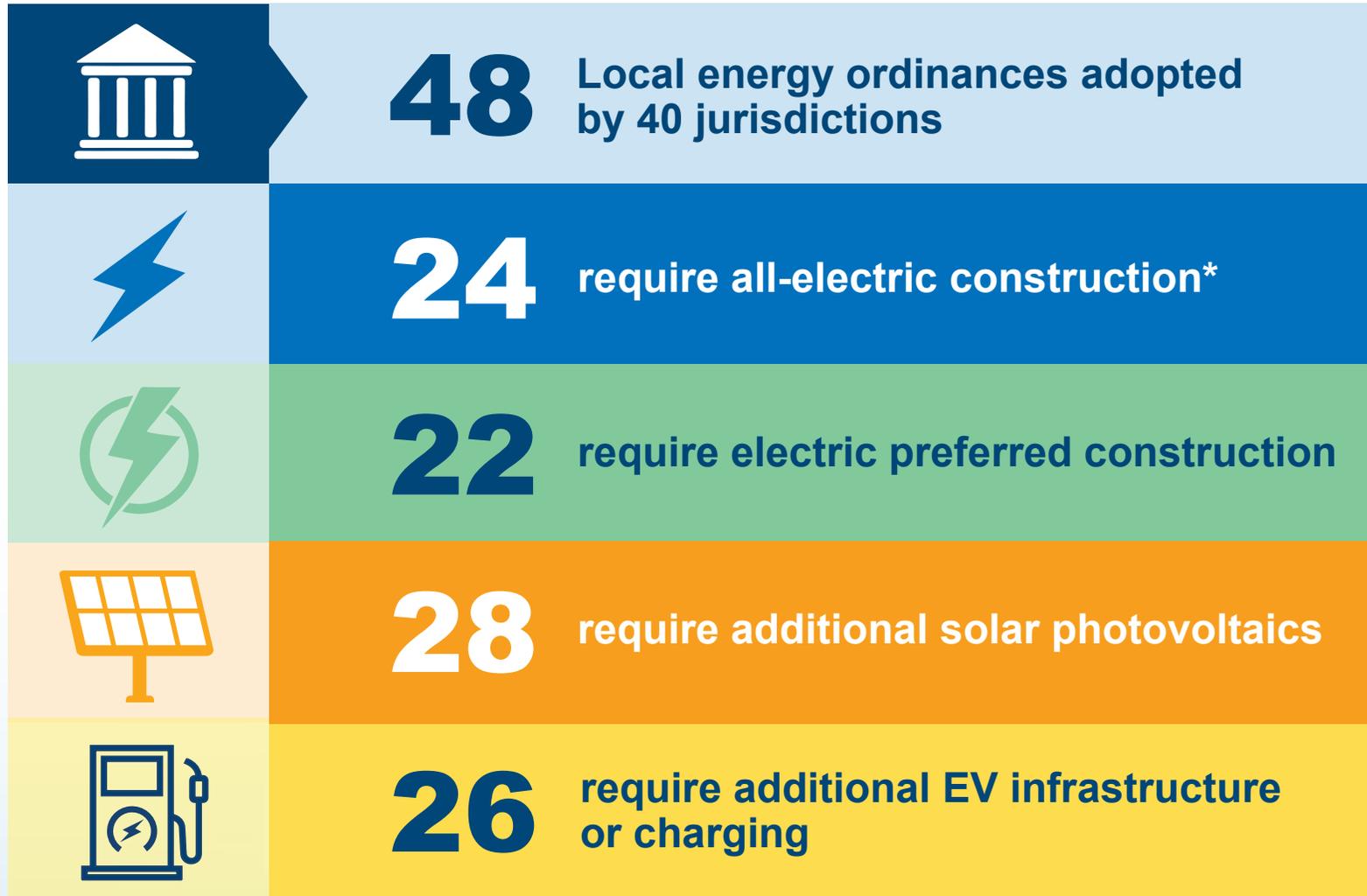
Overview of Local Ordinance Approval Process

For local building efficiency standards to be enforceable:

1. Application filed with CEC shows standards are cost-effective
2. CEC finds standards reduce energy consumption compared to current statewide Energy Code



Local Ordinances Exceeding 2019 Building Energy Efficiency Standards



* May not apply to all building types



Local Ordinances

Jurisdiction	Cost Effective	Energy Reduction	Energy Efficiency or All-Electric Provisions	Exceptions
 City of Daly City	yes	yes	Requirements for all-electric new construction and for solar on new nonresidential buildings	Applications such as accessory dwelling units, affordable housing, commercial kitchens, laboratories and, for PV, shading, limited solar access and vegetative roofs.



Staff Recommendation

- Approve jurisdiction to enforce local ordinance