



**Valley Clean Energy CAC Meeting – Thursday, August 26, 2021  
via video/teleconference**

**Item 8 – Carbon Neutral Task Group Update**



# Item 8 - Carbon Neutral Task Group Update: Charge

Charge: Assist staff and consultants in evaluating feasibility and creating a road map for both carbon-neutral and carbon-free-hour-by-hour power by 2030.<sup>1</sup>

## Tasks:

- Support VCE staff's timetable for performing and completing this effort
- Assist in input for and evaluation of model development
- Evaluate different types of power that can be included in model
- Consider impacts of plan on future IRP

EJ component – consider importance of some local resources because of impact on local jobs.

1) Strategic plan reference Goal 2 and Objective 2.5.

\*\* Note: Decarbonization and Grid Innovation (Goal 4) were initially part of the Task Group scope, but the group decided to make that part of a future Task Group due to the volume of work associated with Goal 2 and Objective 2.5.

# Item 8 - Carbon Neutral Task Group Update: Timeline

Q1 2021

- Board approves Strategic Plan (10/8/2020)
- Task Group formed (1/28/21)
- Identify consultants
- Begin defining SOW

Q2 2021

- Compile inputs/assumptions
- Identify eligible technologies
- Finalize consultant selection
- Board approval, if necessary
- Metrics to consider

Q3 2021

- Kickoff analysis
- Analyze findings & prepare initial plans
- CAC & Board engagement

Q4 2021

- Finalize plans
- Develop final report
- CAC & Board engagement

NOTE: The next IRP will be due no sooner than May 1, 2022, but appears likely to be extended. The CPUC is considering a [staff proposal](#) to streamline IRP/RPS filings, which could move the next full IRP filing to 2023 (with new IRPs filed every three years thereafter).

# Item 8 - Carbon Neutral Task Group Update: Power Source Options

## **Renewable Electricity**

Includes “biomass, solar thermal, photovoltaic, wind, geothermal, fuel cells using renewable fuels, small hydroelectric generation of 30 megawatts or less, digester gas, municipal solid waste conversion, landfill gas, ocean wave, ocean thermal, or tidal current”, [(Public Resources Code § 25741), Renewables Portfolio Standard (RPS). (Public Utilities Code § 399.11 et seq.)] Renewable electricity is assumed to be free of GHG emissions.

## **Carbon Free Electricity**

Any electricity that meets the definition of renewable electricity above plus other sources considered zero emission. These zero emission sources now in California include existing large hydro (greater than 30 MW) and existing nuclear. New technologies not now included in the zero-emission category can be added in the future. Carbon Free power uses no fossil fuel generation. See <https://focus.senate.ca.gov/sb100/faqs> for FAQs on existing large hydro and existing nuclear and their inclusion in SB 100. The percent of the power that must meet RPS is governed by SB 100 (De Leon, 2018) and shall be equal to or greater than 60% for 2030 and beyond. By 2045 all electricity in California is to be Carbon Free.



# Item 8 - Carbon Neutral Task Group Update: Analysis Time Frames

## Hour by Hour // 24/7

The Carbon Content of the Electricity provided is analyzed on an hour by hour basis. And for our purposes is either Renewable or Carbon Free Electricity each and every hour of the day. (8,760 hrs/yr)

## Carbon Neutral

The net carbon content of the electricity is analyzed over a period of time (usually a year) and the net carbon content is zero. During this period both sources that emit carbon and those that do not can be used, but the net carbon emissions are zero. Net zero can be achieved if zero carbon electricity is overproduced at certain times and that excess zero carbon electricity is demonstrated through available data to displace carbon emitting electricity on the grid at that time. If enough zero carbon electricity is overproduced, the net carbon emissions can be zero.

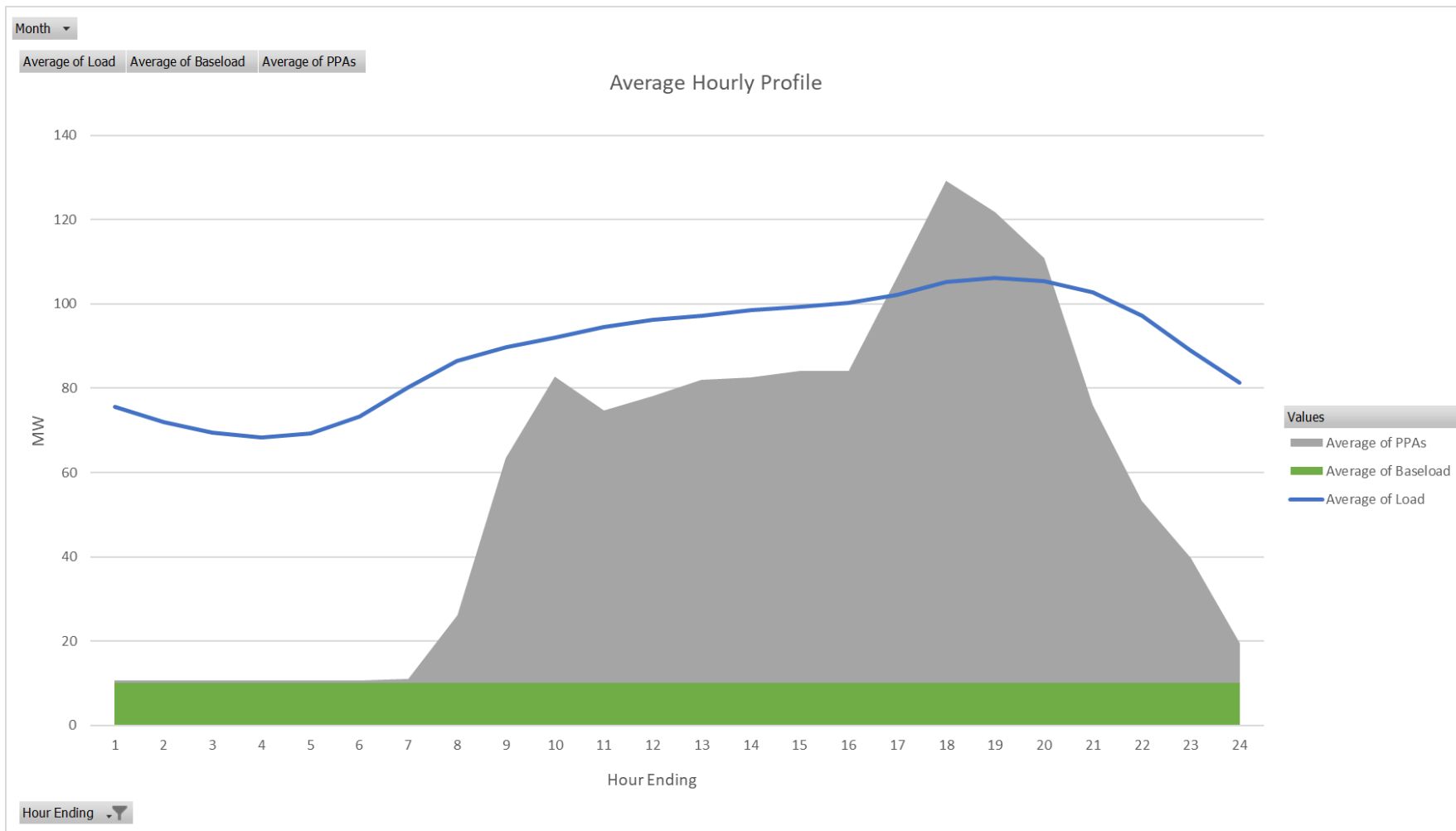
# Item 8 - Carbon Neutral Task Group Update: Portfolios

<b>POWER SOURCE</b>	<b>RENEWABLE</b>	<u>R/HBH</u>	<u>R/CN</u>
	<b>CARBON-FREE</b>	<u>CF/HBH</u>	<u>CF/CN</u>
		<b>HOUR BY HOUR</b>	<b>CARBON NEUTRAL</b>

**ANALYSIS TIME FRAME**

“R/HBH/CF/CN”: Renewable /Hour by hour/Carbon free/Carbon neutral

# Item 8 - Carbon Neutral Task Group Update: Portfolio technology diversity will be needed



- 1) Baseload is an assumed future agreement to satisfy CPUC Order.
- 2) Contracted PPAs will satisfy a portion of the portfolio but gaps remain that will be addressed in this Task Group study.

# Item 8 – Carbon Neutral Task Group: Project Scope, Schedule and Status

Project Schedule and Status						
Task / Sub-Task	Month					
	1	2	3	4	5	6
<b>Project Management</b>						
Kick-off	█					
Progress updates	█	█	█	█	█	█
Weekly project controls	█	█	█	█	█	█
<b>Future Industry Trends</b>						
Research future energy trends	█					
Data request	█					
Validate with VCE	█					
<b>Load Profile Construction</b>						
Review load and BTM resource data	█	█				
Prepare 8,760 and statistical inputs	█	█				
IRP 8,760 forecast	█	█				
Existing and planned 8,760 forecasting	█	█				
Agree key risks and sensitivities	█	█				
Validate with VCE	█	█				
<b>Resource Cost Estimation</b>						
Update resource cost estimates	█	█				
Capital and operating costs by technology	█	█				
Fuel and carbon mitigation costs	█	█				
Agree key risks and sensitivities	█	█				
Validate with VCE	█	█				
<b>Resource Portfolio Construction</b>						
Configure production cost model			█	█		
Identify least cost 8,760 100% renewables and zero carbon portfolios			█	█		
Identify least cost annual 100% renewables and zero carbon portfolios			█	█		
Minimize scenario costs			█	█		
Consider market interactions			█	█		
Agree key risks and sensitivities			█	█		
Validate with VCE			█	█		
<b>Risk Analysis</b>						
Identify key risks				█	█	
Develop risk mitigations				█	█	
Validate with VCE				█	█	
<b>Documentation</b>						
Draft portfolio study report					█	█
Develop risk report					█	█
Revise portfolio study report					█	█
Develop data pack					█	█

█ = Complete █ = In-progress █ = Not started

- Future Industry Trends research is almost completed
  - Validation with Community Advisory Committee (CAC)
- Sensitivities under consideration
  - EV penetration
  - Building electrification penetration
  - Rooftop solar penetration
  - Weather / climate change
- Data request fulfilment well underway
- Load profile construction commencing
- Resource cost estimate research mid-way



# Item 8 – Carbon Neutral Task Group: Key Future Zero Carbon Generation Technologies

Name	Category	Fuel Type	Description	Energy Efficiency	Advantages	Disadvantages	Availability	Potential Breakthroughs
<b>Thermal Generation Technologies</b>								
Combined Cycle Turbine (CCGT)	Combustion	Hydrogen / Renewable Methane / Methane + CCS	Generates power via combustion in a combustion turbine followed by a steam turbine to use waste heat	50-60%	<ul style="list-style-type: none"> <li>Higher efficiency than OCGT</li> <li>Mature technology</li> <li>Fuel flexible</li> <li>Provides inertia</li> </ul>	<ul style="list-style-type: none"> <li>Higher capex than OCGT</li> <li>Emissions from combustion</li> <li>Less flexible than OCGT</li> </ul>	<ul style="list-style-type: none"> <li>Limited availability of hydrogen or renewable methane</li> <li>Pilot projects only</li> </ul>	<ul style="list-style-type: none"> <li>Higher temp combustion turbine</li> </ul>
Open Cycle Turbine (OCGT)	Combustion	Hydrogen / Renewable Methane / Methane + CCS	Generates power via combustion in a gas turbine	30-40%	<ul style="list-style-type: none"> <li>Higher ramp rate than CCGT</li> <li>Mature technology</li> <li>Fuel flexible</li> <li>Provides inertia</li> <li>Lower capex than CCGT</li> </ul>	<ul style="list-style-type: none"> <li>Lower efficiency than CCGT</li> <li>Emissions from combustion</li> <li>Less flexible than a OCGT</li> </ul>	<ul style="list-style-type: none"> <li>Limited availability of hydrogen or renewable methane</li> <li>Pilot projects only</li> </ul>	<ul style="list-style-type: none"> <li>Higher temp combustion turbine</li> </ul>
Carbon Capture and Sequestration (CCS)	Combustion	Coal / Methane	Captures and stores CO2 from coal or methane combustion to prevent it from entering the atmosphere	80%	<ul style="list-style-type: none"> <li>Allows use of relatively low cost methane and coal fuel</li> </ul>	<ul style="list-style-type: none"> <li>Unproven technology</li> <li>Generates waste stream</li> </ul>	<ul style="list-style-type: none"> <li>Commercially available</li> <li>Pilot projects only</li> </ul>	<ul style="list-style-type: none"> <li>New electrochemical process converts CO2 through a mineralization approach and produces green hydrogen.</li> </ul>
Small Modular Reactor	Fission	Uranium	Generates heat from fission, used to drive steam turbine	33-37%	<ul style="list-style-type: none"> <li>Smaller (&lt;300 MW) than conventional nuclear (&lt;1,600 MW)</li> <li>Lower and more stable fuel costs compared to methane</li> </ul>	<ul style="list-style-type: none"> <li>Relatively immature technology</li> <li>Potential community resistance</li> </ul>	<ul style="list-style-type: none"> <li>Pilot projects only</li> </ul>	<ul style="list-style-type: none"> <li>None identified</li> </ul>
Pebble Bed Reactor	Fission	Uranium	Generates heat from fission, used to drive steam turbine	Up to 50%	<ul style="list-style-type: none"> <li>Smaller (&lt;300 MW) than conventional nuclear (&lt;1,600 MW)</li> <li>Lower and more stable fuel costs compared to methane</li> <li>Fuel pebbles touted as inherently safe</li> </ul>	<ul style="list-style-type: none"> <li>Relatively immature technology</li> <li>Potential community resistance</li> </ul>	<ul style="list-style-type: none"> <li>Pilot projects only</li> </ul>	<ul style="list-style-type: none"> <li>None identified</li> </ul>
Proton Exchange Membrane Fuel Cell (PEMFC)	Chemical	Hydrogen	Fuel cell generates electricity and water using hydrogen	30-50%	<ul style="list-style-type: none"> <li>Higher ramp rate than SOFC</li> <li>Maturing technology</li> </ul>	<ul style="list-style-type: none"> <li>Lower efficiency than SOFC</li> <li>Most only run on hydrogen</li> </ul>	<ul style="list-style-type: none"> <li>Limited availability of hydrogen</li> <li>Pilot projects only</li> </ul>	<ul style="list-style-type: none"> <li>DOE targetting higer efficiencies and increased fuel stack hours</li> </ul>
Solid Oxide Fuel Cell (SOFC)	Chemical	Hydrogen / Renewable Methane	Fuel cell generates electricity and water using hydrogen or methane	63-81%	<ul style="list-style-type: none"> <li>Higher efficiency than PEMFC</li> </ul>	<ul style="list-style-type: none"> <li>Lower efficiency than SOFC</li> <li>Immature technology</li> <li>Less flexible than SOFC</li> </ul>	<ul style="list-style-type: none"> <li>Limited availability of hydrogen</li> <li>Pilot projects only</li> </ul>	<ul style="list-style-type: none"> <li>DOE targetting higer efficiencies and increased fuel stack hours</li> </ul>

- CAC feedback: Are we missing any technologies, or does any of the key information need to be updated?

# Item 8 – Carbon Neutral Task Group: Key Future Renewable Energy Technologies

Name	Category	Capacity Factor	Description	Advantages	Disadvantages	Availability	Potential Breakthroughs
<b>Generation Technologies</b>							
Onshore Wind	Wind	51%	A windmill is used to turn a turbine to generate electricity on land	<ul style="list-style-type: none"> <li>• Mature technology</li> <li>• Relatively low \$/kWh capex</li> <li>• Relatively constant generation</li> </ul>	<ul style="list-style-type: none"> <li>• Community resistance</li> <li>• Limited resource availability</li> </ul>	<ul style="list-style-type: none"> <li>• Commercially available</li> <li>• Limited to areas of high wind resource</li> </ul>	<ul style="list-style-type: none"> <li>• Larger turbines increasing efficiency and reducing costs</li> </ul>
Offshore Wind	Wind	40-50%	Floating windmills are used to generate electricity in the ocean	<ul style="list-style-type: none"> <li>• Mature technology</li> <li>• Relatively low \$/kWh capex</li> <li>• Relatively constant generation</li> </ul>	<ul style="list-style-type: none"> <li>• Community resistance</li> <li>• Limited resource availability</li> </ul>	<ul style="list-style-type: none"> <li>• Commercially available</li> <li>• Limited to areas of high wind resource</li> <li>• Limited to coast areas</li> </ul>	<ul style="list-style-type: none"> <li>• Larger turbines increasing efficiency and reducing costs</li> </ul>
Single Axis Solar PV	Solar	30-35%	Photo-voltaic(PV) panels on a single axis tracking system are used to generate electricity	<ul style="list-style-type: none"> <li>• Mature technology</li> <li>• Relatively low \$/kWh capex</li> </ul>	<ul style="list-style-type: none"> <li>• Strongly seasonal</li> <li>• Limited resource availability</li> </ul>	<ul style="list-style-type: none"> <li>• Commercially available</li> <li>• Limited to areas of high solar resource</li> </ul>	<ul style="list-style-type: none"> <li>• Solar technology increasing efficiency and lowering costs</li> </ul>
Concentrated Solar Power (CSP)	Solar	25%	Mirrors are used to concentrate solar energy on a working fluid, which is used to transfer heat to a steam turbine	<ul style="list-style-type: none"> <li>• Includes storage</li> <li>• Firm capacity</li> <li>• Relatively low \$/kWh</li> </ul>	<ul style="list-style-type: none"> <li>• Strongly seasonal</li> <li>• Limited resource availability</li> <li>• Relatively immature</li> </ul>	<ul style="list-style-type: none"> <li>• Commercially available</li> <li>• Limited to areas of high solar resource</li> <li>• Pilot scale</li> </ul>	<ul style="list-style-type: none"> <li>• High temp steam turbines can reduce costs</li> </ul>
Geothermal	Geothermal	72%	Underground geothermal energy is used to drive a steam turbine	<ul style="list-style-type: none"> <li>• Relatively high capacity factor</li> <li>• Firm capacity</li> <li>• Mature technology</li> </ul>	<ul style="list-style-type: none"> <li>• Limited resource availability</li> <li>• Relatively high \$/kWh capex</li> </ul>	<ul style="list-style-type: none"> <li>• Commercially available</li> <li>• Limited to areas of high geothermal resource</li> </ul>	
Ocean Tidal	Tidal	20-35%	Tidal energy is used to drive an electric generator	<ul style="list-style-type: none"> <li>• Predictable resource</li> <li>• Complementary generation profile</li> </ul>	<ul style="list-style-type: none"> <li>• Requires tidal estuary</li> <li>• Relatively expensive per kWh</li> <li>• Immature technology</li> </ul>	<ul style="list-style-type: none"> <li>• Commercially available</li> <li>• Limited to coastal areas</li> <li>• Limited to tidal areas</li> </ul>	
Ocean Wave	Wave	25-32%	Wave energy is used to drive an electric generator	<ul style="list-style-type: none"> <li>• Predictable resource</li> <li>• Complementary generation profile</li> </ul>	<ul style="list-style-type: none"> <li>• Requires coast access</li> <li>• Relatively expensive per kWh</li> <li>• Immature technology</li> </ul>	<ul style="list-style-type: none"> <li>• Commercially available</li> <li>• Limited to coastal areas</li> </ul>	
Run-of-River Hydro	Hydropower	40-80%	Water flow is used to drive an electric generator	<ul style="list-style-type: none"> <li>• Relatively low \$/kWh capex</li> <li>• Firm capacity</li> </ul>	<ul style="list-style-type: none"> <li>• Community resistance</li> <li>• Subject to rainfall</li> </ul>	<ul style="list-style-type: none"> <li>• Commercially available</li> <li>• Limited to areas of high hydro potential</li> </ul>	
Reservoir Hydro	Hydropower	35-43%	Water is stored in dams and then released to drive an electric generator	<ul style="list-style-type: none"> <li>• Relatively low \$/kWh capex</li> <li>• Includes storage</li> <li>• Firm capacity</li> </ul>	<ul style="list-style-type: none"> <li>• Community resistance</li> <li>• Subject to rainfall</li> <li>• Subject to other uses, e.g. fish</li> </ul>	<ul style="list-style-type: none"> <li>• Commercially available</li> <li>• Limited to areas of high hydro potential</li> </ul>	
Waste-to-Energy	Waste	70%	Methane is captured from waste and used to drive a combustion turbine	<ul style="list-style-type: none"> <li>• Relatively low \$/kWh cost</li> <li>• Methane reduction boost</li> <li>• Firm capacity</li> </ul>	<ul style="list-style-type: none"> <li>• Local emissions from combustion</li> </ul>	<ul style="list-style-type: none"> <li>• Commercially available</li> <li>• Limited to areas with significant waste streams</li> </ul>	
Biomass	Biomass	50-60%	Methane is captured from biomass or biomass is burned directly to drive a combustion turbine	<ul style="list-style-type: none"> <li>• Firm capacity</li> </ul>	<ul style="list-style-type: none"> <li>• Local emissions from combustion</li> </ul>	<ul style="list-style-type: none"> <li>• Commercially available</li> <li>• Limited to areas with significant biomass streams</li> </ul>	<ul style="list-style-type: none"> <li>• Improvements in bio-digester technology increases efficiency and reduces cost</li> </ul>

- CAC feedback: Are we missing any technologies, or does any of the key information need to be updated?

# Item 8 – Carbon Neutral Task Group: Key Future Storage Technologies

Name	Cycle Time	Description	Round-trip Losses	Advantages	Disadvantages	Availability	Potential Breakthroughs
<b>Storage Technologies</b>							
Capacitors	Seconds	Capacitors used to rapidly charge and discharge small amounts of electricity directly	5%	<ul style="list-style-type: none"> <li>• Fastest response of any technology</li> <li>• Mature technology</li> </ul>	<ul style="list-style-type: none"> <li>• Relatively expensive per kWh</li> <li>• Unable to store significant energy</li> <li>• 10-20% losses per day</li> </ul>	<ul style="list-style-type: none"> <li>• Widely available</li> </ul>	
Flywheels	Seconds	Uses a flywheel to rapidly charge and discharge relatively small amounts of electricity using an electric generator	5%-50%	<ul style="list-style-type: none"> <li>• Relative fast response times</li> <li>• Mature technology</li> </ul>	<ul style="list-style-type: none"> <li>• Relatively large footprint</li> <li>• Relatively expensive per kWh</li> <li>• 20-50% losses over 2 hours</li> </ul>	<ul style="list-style-type: none"> <li>• Widely available</li> </ul>	
Battery	Hours	Electrochemical reactions are used to store and discharge electricity directly	10%	<ul style="list-style-type: none"> <li>• Relatively responsive</li> <li>• Relatively low losses</li> <li>• Mature technology</li> </ul>	<ul style="list-style-type: none"> <li>• Relatively high cost per kWh</li> <li>• Thermal runaway</li> </ul>	<ul style="list-style-type: none"> <li>• Widely available</li> </ul>	<ul style="list-style-type: none"> <li>• Metal air and liquid metal formulations may improve cost effectiveness</li> </ul>
Flow	Hours	Stores electricity in two chemicals, which can be stored indefinitely	40%	<ul style="list-style-type: none"> <li>• No standing losses if turned off</li> <li>• Relatively safe</li> </ul>	<ul style="list-style-type: none"> <li>• Unproven technology</li> <li>• High parasitic losses while on</li> <li>• Relatively high \$/kWh</li> </ul>	<ul style="list-style-type: none"> <li>• Commercially available</li> <li>• Pilot scale</li> </ul>	
CSP	Hours	Stores energy as heat in working fluid, which is then used to drive a heat recovery-based steam generator	1%	<ul style="list-style-type: none"> <li>• Very low round trip losses</li> <li>• Can be coupled with CSP</li> <li>• Relatively low \$/kWh capex</li> </ul>	<ul style="list-style-type: none"> <li>• Unproven technology</li> <li>• Safety of high operating temp</li> </ul>	<ul style="list-style-type: none"> <li>• Commercially available</li> <li>• Pilot scale</li> </ul>	<ul style="list-style-type: none"> <li>• High temp steam turbine technology could increase efficiency, lower \$/kWh</li> </ul>
Hydrogen-Compression	Hours	Uses steel or carbon fiber based receiving vessels to store relatively small amounts of hydrogen	53%	<ul style="list-style-type: none"> <li>• Mature technology</li> <li>• Relatively compact footprint</li> <li>• Relatively low \$/kWh capex</li> </ul>	<ul style="list-style-type: none"> <li>• Amount of space required</li> <li>• High round trip losses</li> </ul>	<ul style="list-style-type: none"> <li>• Widely available</li> </ul>	<ul style="list-style-type: none"> <li>• Material science could reduce cost</li> </ul>
Hydrogen-Salt Cavern	Weeks	Uses air compressors to store large amounts of hydrogen in salt caverns	42-55%	<ul style="list-style-type: none"> <li>• Relatively low cost per kWh</li> <li>• Mature technology</li> </ul>	<ul style="list-style-type: none"> <li>• Requires access to a salt cavern</li> <li>• High losses</li> <li>• Relatively slow response</li> </ul>	<ul style="list-style-type: none"> <li>• Limited availability of salt caverns</li> </ul>	
Compressed Air Energy Storage (CAES)	Weeks	CAES stores electricity in underground formations including salt caverns and an expander to drive a turbine generator	42-55%	<ul style="list-style-type: none"> <li>• Relatively low \$/kWh capex</li> <li>• Mature technology</li> </ul>	<ul style="list-style-type: none"> <li>• Requires access to a salt cavern</li> <li>• High losses</li> <li>• Relatively slow response</li> </ul>	<ul style="list-style-type: none"> <li>• Limited availability of salt caverns</li> </ul>	<ul style="list-style-type: none"> <li>• Isobaric systems potentially reduce volume by 77%</li> </ul>
Hydrogen-Organics	Months	Uses chemical processes to store hydrogen, typically as ammonia or methanol	59-89%	<ul style="list-style-type: none"> <li>• Mature technology</li> <li>• Relatively high energy density</li> </ul>	<ul style="list-style-type: none"> <li>• Storage of volatile chemicals</li> <li>• Relatively high losses</li> <li>• Relatively high \$/kWh</li> </ul>	<ul style="list-style-type: none"> <li>• Widely available</li> </ul>	<ul style="list-style-type: none"> <li>• High potential for cost reduction</li> </ul>
Pumped Hydro	Months	Pumps water into reservoirs for later use to drive water turbine generators	80%	<ul style="list-style-type: none"> <li>• Mature technology</li> <li>• Relatively low \$/kWh capex</li> <li>• Relatively low standing losses</li> </ul>	<ul style="list-style-type: none"> <li>• Requires access to reservoir</li> <li>• Scale required</li> <li>• Relatively slow response</li> </ul>	<ul style="list-style-type: none"> <li>• Limited availability of reservoirs</li> </ul>	

- CAC feedback: Are we missing any technologies, or does any of the key information need to be updated?





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**Valley Clean Energy CAC Meeting – Thursday, August 26, 2021  
via video/teleconference**

**Item 9 – Discussion on possibility of restructuring CAC**



# Item 9 – Discussion: possibility of restructuring CAC

## Option 1: No Change

- 12 Seats (3 seats from each of the 4 jurisdictions)
- Reappoint / Appoint from current applicant pool for Davis and Winters Class 3 seats
- Continue to actively advertise and solicit applicants to fill 2 vacancies: Woodland and unincorporated Yolo County

# Item 9 – Discussion: possibility of restructuring CAC

## **Option 2: Addition of Member-at-Large appointment**

- 12 Seats (3 seats from each of the 4 jurisdictions)
- Allows temporary appointment of Member-at-Large for vacancies greater than 90 days
- Includes 1 reappointment, 1 appointment, and continued recruitment for vacancies (unincorp. Yolo and Woodland)
- Member-at-Large:
  - A) is an applicant(s) from jurisdictions that have filled all available seats for their respective jurisdiction;
  - B) would be appointed for 1 year term and limited to 1 per jurisdiction; and,
  - C) would participate in task group and committee meetings as voting members until the 1 year term or the Class term expired.
- Member-at-Large terms limited to 1 per jurisdiction, i.e. maximum of 4 seats for each jurisdiction to prevent majority representation





# Item 9 – Discussion: possibility of restructuring CAC

## **Option 3: Modified Structure**

- 8 seats (2 seats from each of the 4 jurisdictions), staggered terms
- Creation of 1 alternate from each jurisdiction (like Board structure)
- Alternates would be allowed to act in the absence of their jurisdiction seat: voting rights at CAC meetings. May participate in task groups and CAC meetings (without voting rights)
- Continue to actively advertise and solicit applicants to fill 2 vacancies: Woodland and unincorporated Yolo County
- Before adoption and implementation of Option 3, Option 1 in the interim
- Strategy for implementation development with Staff and CAC Ad Hoc Committee for future consideration