

Board of Directors Special Meeting Agenda

December 15, 2022, 2:00 p.m.

City of San Marcos | Virtual Meeting

Pursuant to Government Code Section 54953(3) (Assembly Bill 361), and in the interest of public health and safety, Clean Energy Alliance (CEA) is temporarily taking actions to prevent and mitigate the effects of the COVID-19 pandemic by holding CEA Joint Powers Authority meetings electronically or by teleconferencing. All public meetings will comply with public noticing requirements in the Brown Act and will be made accessible electronically to all members of the public seeking to observe and address the CEA Joint Powers Authority Board of Directors.

Members of the public can watch the meeting live through the You Tube Live Stream Link at:

<https://thecleanenergyalliance.org/agendas-minutes/>

or

<https://www.youtube.com/channel/UCGXJILzITUJOCZwVGpYoC8Q>

This is a view-only live stream. If the You Tube live stream experiences difficulties members of the public should access the meeting via the Zoom link below.

Members of the public can observe and participate in the meeting via Zoom by clicking:

<https://us06web.zoom.us/j/81376410530>

or telephonically by dialing:

(253) 215-8782

Meeting ID: 813 7641 0530

Members of the public can provide public comment in writing or orally as follows:

Written Comments: If you are unable to connect by Zoom or phone and you wish to make a comment, you may submit written comments prior to and during the meeting via email to: Secretary@thecleanenergyalliance.org. All written comments will be posted online and become part of the meeting record. To ensure announcement of receipt of your written comments during the meeting, please submit all written comments at least an hour prior to the commencement of the meeting. Public comments received in writing will not be read aloud at the meeting.

Oral Comments: You can participate in the meeting by providing oral comments either: (1) online by using the raise hand function and speaking when called upon or (2) using your telephone by pressing *9 to raise your hand and speaking when called upon.



If you are an individual with a disability and need a reasonable modification or accommodation pursuant to the Americans with Disabilities Act (“ADA”), please contact Secretary@thecleanenergyalliance.org prior to the meeting for assistance.

CALL TO ORDER

ROLL CALL

FLAG SALUTE

BOARD COMMENTS & ANNOUNCEMENTS

PRESENTATIONS

Report on Clean Energy Alliance Community Advisory Committee Meeting of December 1, 2022, by Chair Dwight Worden

PUBLIC COMMENT

APPROVAL OF MINUTES

November 17, 2022, Regular Meeting

Consent Calendar

Item 1: Clean Energy Alliance Treasurer’s Report

RECOMMENDATION

Receive and file Clean Energy Alliance Treasurer’s Report for October 2022 activity.

Item 2: Clean Energy Alliance Chief Executive Officer Operational, Administrative and Regulatory Affairs Update

RECOMMENDATION

Receive and file Community Choice Aggregation Update Report from Chief Executive Officer and Regulatory Affairs Report from Special Counsel Tosdal APC.



Item 3: Declare Vacancy on Clean Energy Alliance Community Advisory Committee for City of Carlsbad for Term through December 2025 and Direct Application Period to be Open December 16, 2022 – January 15, 2023.

RECOMMENDATION

Declare Community Advisory Committee vacancy for City of Carlsbad for term ending December 31, 2025, and direct application period to be open December 16, 2022 – January 15, 2023.

New Business

Item 4: Consider Appointments for Clean Energy Alliance Community Advisory Committee for Cities of Oceanside and Vista

RECOMMENDATION

- 1) Approve Clean Energy Alliance Community Advisory Committee Nominees for City of Oceanside, one for term ending December 31, 2024, and one for Term ending December 31, 2025.
- 2) Approve Clean Energy Alliance Community Advisory Committee Nominees for City of Vista, one for term ending December 31, 2024, and one for Term ending December 31, 2025.

Item 5: Consideration of the Circumstances of the COVID-19 State of Emergency to Determine Whether the Legislative Bodies of Clean Energy Alliance will Continue to Hold Meetings Via Teleconferencing and Making Findings Pursuant to Government Code Section 54943(e)

RECOMMENDATION

Continue meetings by teleconferencing pursuant to Government Code Section 54943(e), finding that: (1) the Board has considered the circumstances of the state of emergency created by the COVID-19 pandemic; and (2) the state of emergency continues to directly impact the ability of the members to meet safely in person.

BOARD MEMBER REQUESTS FOR FUTURE AGENDA ITEMS

NEXT MEETING: Special Board Meeting January 12, 2023, Subject to Board Approval

**Clean Energy Alliance - Board of Directors
Regular Meeting Minutes
November 17, 2022, 2:00 p.m.
City of San Marcos|Virtual Meeting
Teleconference Locations Per Government Code Section 54953(3) (Assembly Bill 361)**

CALL TO ORDER: Chair Becker called to order the special meeting of the Clean Energy Alliance at 2:00 p.m.

ROLL CALL: Board Members: Musgrove, Acosta, Green, Keim, Inscoe, Vice Chair Druker, Chair Becker

FLAG SALUTE: Board Member Musgrove led the flag salute.

BOARD COMMENTS & ANNOUNCEMENTS: None

PRESENTATIONS: San Diego Gas & Electric – Overview and Update on 2023 Rate Forecast: Scott Crider, Senior Vice President of External and Operations Support; Adam Pierce, Director of Customer Pricing

PUBLIC COMMENT: None

APPROVAL OF MINUTES

October 20, 2022, Special Meeting

Motion by Chair Becker, second by Vice Chair Druker, to approve the minutes of the special meeting held October 20, 2022.

Approved Unanimously, 6/0 with Board Member Musgrove abstaining.

Consent Calendar

Item 1: Clean Energy Alliance Treasurer’s Report

RECOMMENDATION

Receive and file Clean Energy Alliance Treasurer’s Report for September 2022 activity.

Item 2: Consider Approval of Scheduling Special Clean Energy Alliance Board Meetings on December 15, 2022, and January 12, 2023, and cancel Regular Clean Energy Board meeting on December 22, 2022

RECOMMENDATION

Approve scheduling Special Clean Energy Alliance Board Meetings for December 15, 2022, and January 12, 2023, and cancel regular Clean Energy Alliance Board meeting on December 22, 2022.

Motion by Board Member Keim, second by Vice Chair Druker, to approve the consent calendar. Motion carried unanimously, 7/0.

New Business

Item 3: Receive Annual Audited Financial Report for the Fiscal Year Ended June 30, 2022

RECOMMENDATION

Receive and file Clean Energy Alliance Annual Audited Financial Report for the Fiscal Year Ended June 30, 2022.

CEO Barbara Boswell introduced the item and Ryan Domino, LSL CPA, presented the Fiscal Year 2021/22 Financial Audit results commenting that the audit received an Unmodified Opinion which is the best available per American Institute of Certified Public Accountants, Inc. (AICPA) Generally Accepted Auditing Standards (GAAS) and Generally Accepted Government Auditing Standards (GAGAS) concluding that the financial statements can be relied upon and are materially correct as of June 30, 2022.

Motion by Board Member Green, second by Chair Becker, to approve the recommendation. Motion carried unanimously, 7/0.

Item 4: Clean Energy Alliance Chief Executive Officer Operational, Administrative and Regulatory Affairs Update

RECOMMENDATION

Receive and file Community Choice Aggregation Update Report from Chief Executive Officer and Regulatory Affairs Report from Special Counsel Tosdal APC.

CEO Barbara Boswell provided an update regarding expansion efforts relating to initiating service in the cities of Escondido and San Marcos. Ms. Boswell commented that outreach strategies have begun and both cities will next have to select their default power supply and reviewed the timeline calendar for an April 2024 launch.

Special Counsel Ty Tosdal updated the Board on the following items: Net Energy Metering (NEM) Proposed Decision (R. 20-08-020) commenting that the California Public Utilities Commission (CPUC) issued a new proposed decision which if adopted will end NEM and change to Net Billing rate. The new proposed decision provides a nine-year lock-in period for rates yielding some certainty for that time frame if purchase and interconnection meet certain time-frame criteria, and NEM 2.0 will sunset with implementation beginning withing 120 days of decision adoption; regarding the California Energy Commission (CEC) Load Management Standards Decision (21-OIR-03) that affects CEA in effort to establish cost-effective programs and rate structures to encourage the use of electrical energy at off-peak hours and encourage control of daily peak loads requiring large CCA programs such as CEA to adopt a marginal cost-based rate, establish a marginal cost-based program and develop and submit a compliance plan to the CEC; and lastly regarding Renewable Portfolio Standard (RPS) CPUC Proposed Decision (R. 18-07-003) to adopt the Draft 2022 RPS plans of Load Serving Entities (LSE) subject to detailed revisions. Additional information required for submittal by CEA will be due to CPUC 30 days following issuance of the final decision.

Board received and filed report.

Item 5: Consideration of the Circumstances of the COVID-19 State of Emergency to Determine Whether the Legislative Bodies of Clean Energy Alliance will Continue to Hold Meetings Via Teleconferencing and Making Findings Pursuant to Government Code Section 54943(e)

RECOMMENDATION

Continue meetings by teleconferencing pursuant to Government Code Section 54943(e), finding that: (1) the Board has considered the circumstances of the state of emergency created by the COVID-19 pandemic; and (2) the state of emergency continues to directly impact the ability of the members to meet safely in person.

CEO Barbara Boswell gave an overview of the item and indicated that no significant change has occurred since the Board last considered the current circumstances.

Motion by Board Member Acosta, second by Member Musgrove to approve the recommendation to continue meetings by teleconferencing pursuant to Government Code Section 54943(e), finding that: (1) the Board has considered the circumstances of the state of emergency created by the COVID-19 pandemic; and (2) the state of emergency continues to directly impact the ability of the members to meet safely in person.

Motion carried unanimously, 7/0.

BOARD MEMBER REQUESTS FOR FUTURE AGENDA ITEMS: None.

Chair Becker acknowledged Board Member Inscoe's final meeting and extended gratitude for her work and participation on the Board.

Board Member Inscoe extended gratitude and best wishes to the Board and CEO.

ADJOURN: Chair Becker adjourned the meeting at 3:01 p.m.

Susan Caputo, MMC
Interim Board Secretary



Staff Report

DATE: December 15, 2022

TO: Clean Energy Alliance Board of Directors

FROM: Andy Stern, Interim Chief Financial Officer/Treasurer

ITEM 1: Clean Energy Alliance Treasurer's Report

RECOMMENDATION

Receive and File Clean Energy Alliance (CEA) Interim Treasurer's Report for October 2022.

BACKGROUND AND DISCUSSION

This report provides the Board with the following financial information through October 31, 2022:

- Statement of Financial Position (Unaudited and preliminary) – Reports assets, liabilities, and financial position of the CEA as of October 31, 2022.
- Statement of Revenues, Expenses and Changes in Net Position (Unaudited and preliminary) for the twelve months ended October 31, 2022.
- Budget to Actuals Comparison Schedule (Unaudited and preliminary) – Reports actual revenues and expenditures compared to the annual amended budget as of October 31, 2022.
- List of Payments Issued – Reports payments issued for October 2022.

As of October 31, 2022, liabilities represent invoices and estimated accruals for energy and services received but not yet paid. The noncurrent liabilities relate to debt with JPMorgan as well as amounts due to the member cities of Carlsbad, Del Mar and Solana Beach. CEA is currently making interest only payments on the debt from JPMorgan. The amounts due to the member agency were for start-up costs and services provided to CEA for the period December 2019 to June 2020. These invoices are scheduled to be paid three years from the time CEA is operational.

CLEAN ENERGY ALLIANCE
STATEMENT OF NET POSITION
As of October 31, 2022

ASSETS

Current assets

Cash and cash equivalents	\$ 8,722,074
Accounts receivable, net	10,207,110
Accrued revenue	4,457,860
Other receivables	45,000
Prepaid expenses	306,647
Deposits	<u>500,000</u>
Total current assets	24,238,691

Noncurrent assets

Restricted cash	227,000
Deposits	<u>1,115,000</u>
Total noncurrent assets	<u>1,342,000</u>
Total assets	<u><u>25,580,691</u></u>

LIABILITIES

Current liabilities

Accrued cost of energy	8,527,859
Accounts payable	272,816
Deferred revenue	60,000
Other accrued liabilities	<u>529,520</u>
Total current liabilities	<u>9,390,195</u>

Noncurrent liabilities

Due to member agencies	504,017
Bank note payable	<u>13,820,000</u>
Total noncurrent liabilities	<u>14,324,017</u>
Total liabilities	<u><u>23,714,212</u></u>

NET POSITION

Unrestricted	<u>1,866,479</u>
Total net position	<u><u>\$ 1,866,479</u></u>

These financial statements have not been subjected to an audit or review or compilation engagement, and no assurance is provided on them.

CLEAN ENERGY ALLIANCE
STATEMENT OF REVENUES, EXPENSES
AND CHANGES IN NET POSITION
Four Months ended October 31, 2022

OPERATING REVENUES

Electricity sales, net \$ 32,856,331

OPERATING EXPENSES

Cost of electricity 26,048,537

Contract services 842,405

General and administration 47,569

Total operating expenses 26,938,511

Operating income (loss) 5,917,820

NONOPERATING REVENUES (EXPENSES)

Interest income 7,301

Interest expense (284,647)

Nonoperating revenues (expenses), net (277,346)

CHANGE IN NET POSITION

5,640,474

Net position at beginning of period (3,773,995)

Net position at end of period \$ 1,866,479

These financial statements have not been subjected to an audit or review or compilation engagement, and no assurance is provided on them.

BUDGET TO ACTUALS COMPARISON SCHEDULE

At its June 30, 2022, board meeting, the CEA Board approved the Fiscal Year (FY) 2022/23 budget approving \$76,745,240 in total operating and nonoperating expenses. For the year-to-date, \$27,223,158 has been expended. Revenues for the year-to-date reached \$32,856,331. The overall increase in net position (ignoring loan proceeds) for the year-to-date was \$5,640,474.

The Budget to Actuals Comparison Schedules as of October 31, 2022, is shown on the next page.

CLEAN ENERGY ALLIANCE
BUDGET TO ACTUALS COMPARISON SCHEDULE
Four Months ended October 31, 2022

	ANNUAL BUDGET	ACTUAL YEAR-TO- DATE	BUDGET REMAINING
Operating Revenues			
Energy Sales	\$ 80,786,405	32,856,331	\$ 47,930,074
Total Operating Revenue	80,786,405	32,856,331	47,930,074
Operating Expenses			
Power Supply	73,000,000	26,048,537	46,951,463
Data Manager / Call Center	1,151,180	284,193	866,987
Staffing/Consultants	529,360	102,982	426,378
Legal Services	335,000	102,485	232,515
Professional Services	981,600	312,176	669,424
Audit Services	10,000	8,010	1,990
Software & Licenses	15,100	6,117	8,983
Membership Dues	121,000	39,785	81,215
Printing	55,000	10,228	44,772
Postage	50,000	19,861	30,139
Advertising	15,000	4,137	10,863
Insurance	30,000	-	30,000
Bank Fees	2,000	-	2,000
Total Operating Expenses	76,295,240	26,938,511	49,356,729
Operating Income (Loss)	4,491,165	5,917,820	(1,426,655)
Non-Operating Revenues (Expenses)			
Interest Income	5,000	7,301	(2,301)
Interest Expense	(450,000)	(284,647)	(165,353)
Total Non-Operating Revenues (Expenses)	(445,000)	(277,346)	(167,654)
Net Increase (Decrease) in Available Fund Balance	\$ 4,046,165	\$ 5,640,474	\$ (1,594,309)

These financial statements have not been subjected to an audit or review or compilation engagement, and no assurance is provided on them.

LIST OF PAYMENTS ISSUED

The report on the following page provides the detail of payments issued by CEA for October 2022. All payments were within approved budget.

PAYMENTS ISSUED DURING OCTOBER 2022

<u>Date</u>	<u>Type</u>	<u>Vendor</u>	<u>Description</u>	<u>Amount</u>
10/03/2022	Wire	THE ENERGY AUTHORITY	December 2022 - Capacity Purchase	69,000.00
10/03/2022	Wire	JPMorgan	JP Morgan - July 1, 2022 - September 30, 2022	6,823.86
10/03/2022	Wire	THE ENERGY AUTHORITY	September 2022 - CAISO Weekly Settlement	225,984.41
10/17/2022	Wire	THE ENERGY AUTHORITY	September 2022 - CAISO Weekly Settlement	338,669.73
10/04/2022	ACH/CK	USPS	October 2022 - Postage Payment	160.26
10/20/2022	Wire	Direct Energy	SEPTEMBER -2022 - Capacity SWAP	171,500.00
10/20/2022	Wire	EDF TRADING NORTH AMERICA	SEPTEMBER 2022 - Capacity Purchase	208,500.00
10/20/2022	Wire	SEMPRA	September 2022 - Capacity Purchases	274,400.00
10/24/2022	Wire	THE ENERGY AUTHORITY	October 2022 - CAISO Weekly Settlement	248,383.25
10/20/2022	Wire	Powerex	Transactions for the Period of October 2022	107,157.74
10/20/2022	Wire	SDG&E (Procurement)	Sep-22 Resource Adequacy Sales & REC Sales	692,490.00
10/31/2022	ACH/CK	California Dept Tax & Fee Admin	2022-Q3 Electric Energy Surcharge	56,760.00
10/19/2022	ACH/CK	USPS	October 2022 - Postage Payment	125.52
10/12/2022	ACH/CK	USPS	October 2022 - Postage Payment	75.84
10/31/2022	Wire	JPMorgan	JP Morgan - 03-Oct-2022 31-Oct-2022 - 29 days - Interests	73,138.12
10/31/2022	Wire	THE ENERGY AUTHORITY	October 2022 - CAISO Weekly Settlement	104,921.29
10/03/2022	ACH/CK	Multiple	NEM Cash Out	24,932.09
10/06/2022	ACH/CK	Burke, Williams & Sorensen, LLP	Professional services July-Aug 31, 2022	12,345.71
10/28/2022	ACH/CK	Burke, Williams & Sorensen, LLP	Professional services September 30, 2022	1,224.00
10/17/2022	ACH/CK	CalCCA	Sponsorship/Registration	400.00
10/18/2022	ACH/CK	Hall Energy Law PC	August 2022 - Energy Procurement Counsel Services Support	3,302.00
10/27/2022	ACH/CK	Keyes & Fox LLP	September 2022 - Professional Services	5,268.25
10/28/2022	ACH/CK	Lance, Soll & Lunghard, LLP	2022 CEA Financial Audit - Year End Progress	8,010.00
10/19/2022	ACH/CK	Maher Accountancy	Accounting during the month of October 2022	7,500.00
10/14/2022	ACH/CK	OneStream Networks, LLC	September 2022 Telephone	82.23
10/27/2022	ACH/CK	Pacific Energy Advisors, Inc	September 2022 - Technical Consulting	26,613.75
10/28/2022	ACH/CK	STERN, ANDREW	CFO Services - September 22, 2022 - October 21, 2022	7,500.00
10/07/2022	ACH/CK	The Bayshore Consulting Group,	September 2022 - CEO and Interim Secretary Services	18,759.71
10/28/2022	ACH/CK	THE ENERGY AUTHORITY	September 2022 - Scheduling Fees	11,700.00
10/27/2022	ACH/CK	Tosdal APC	September 2022 - Regulatory Services	8,175.00
10/13/2022	ACH/CK	Tripepi, Smith & Associates, Inc.	September 2022 - Communications and Marketing Service	12,012.33
10/13/2022	ACH/CK	Multiple	NEM Cash Out	19,433.95
Total for Operating Account				2,745,349.04
10/24/2022	Lockbox	Shell Oil North America	August 2022 - Energy purchases	400,838.10
10/24/2022	Lockbox	Morgan Stanley Capital Group	September 2022 - Energy Purchases	1,587,603.69
10/24/2022	Lockbox	Exelon Generation	August 2022 - Power Purchase	3,094,438.21
Total for Lockbox Account				5,082,880.00

FISCAL IMPACT

There is no fiscal impact associated with this report.



Staff Report

DATE: December 15, 2022

TO: Clean Energy Alliance Board of Directors

FROM: Barbara Boswell, Chief Executive Officer

ITEM 2: Clean Energy Alliance Operational, Administrative and Regulatory Affairs Update

RECOMMENDATION

- 1) Receive and File Operational and Administrative Update Report from Chief Executive Officer.
- 2) Receive Community Choice Aggregation Regulatory Affairs Report from Special Counsel.

BACKGROUND AND DISCUSSION

This report provides an update to the Clean Energy Alliance (CEA) Board regarding the status of operational, administrative, and regulatory affairs activities.

OPERATIONAL UPDATE

California Community Choice Association (CalCCA) Secretary Appointment

The CalCCA Board of Directors has elected Barbara Boswell as Secretary for a two-year term. Barbara is honored to have been selected to further serve this professional association that supports the twenty-five (25) Community Choice Aggregation agencies throughout California.

Expansion of Clean Energy Alliance

Clean Energy Alliance (CEA) is planning two service expansions over the next two years:

April 2023 – Escondido and San Marcos Service Enrollments

April 2024 – Oceanside and Vista Service Enrollments

The chart below reflects activities related to the expansions:

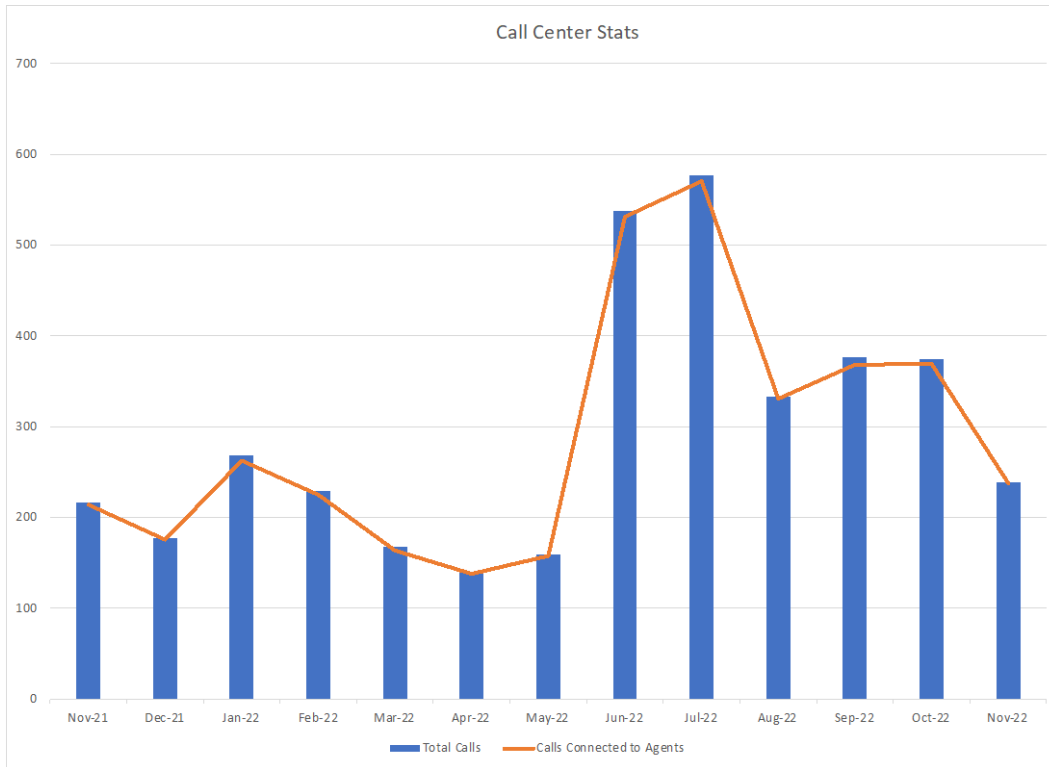
ACTIVITY	TIMING	STATUS
Draft Implementation Plan Amendment – Oceanside & Vista to CEA Board	October 2022	Completed
Marketing & Outreach – Escondido & San Marcos	December 2022 – April 2023	CEA communications team has met with San Marcos communications to discuss out-reach strategy. Meeting with Escondido is being scheduled
CEA: File Implementation Plan Amendment	By December 15, 2022	
Default Power Supply Selection – Escondido & San Marcos	December 2022	December 13 - San Marcos January 11 - Escondido
Noticing – Escondido & San Marcos	February/March/May/June 2023	CEA communications team has met with San Marcos communications to discuss out-reach strategy. Meeting with Escondido is being scheduled
Escondido and San Marcos Customers are enrolled!	April 2023	
Year-Ahead Resource Adequacy Filing to include Oceanside & Vista	April 2023	
Marketing & Outreach – Oceanside & Vista	December 2023 – April 2024	
Default Power Supply Selection – Oceanside & Vista	November/December 2024	
Noticing – Oceanside & Vista	February/March/May/June 2024	
Oceanside & Vista Customers are enrolled!	April 2024	

Risk Oversight Committee

Pursuant to CEA’s Energy Risk Management Policy, the Risk Oversight Committee met September 1, 2022. The Committee reviewed CEA’s recent procurement activity, current portfolio positions and future procurement targets, and portfolio mark to market and counterparty exposure. The Committee confirmed that CEA is in compliance with its Energy Risk Management Policy. The next meeting of the Committee is scheduled for December 1, 2022.

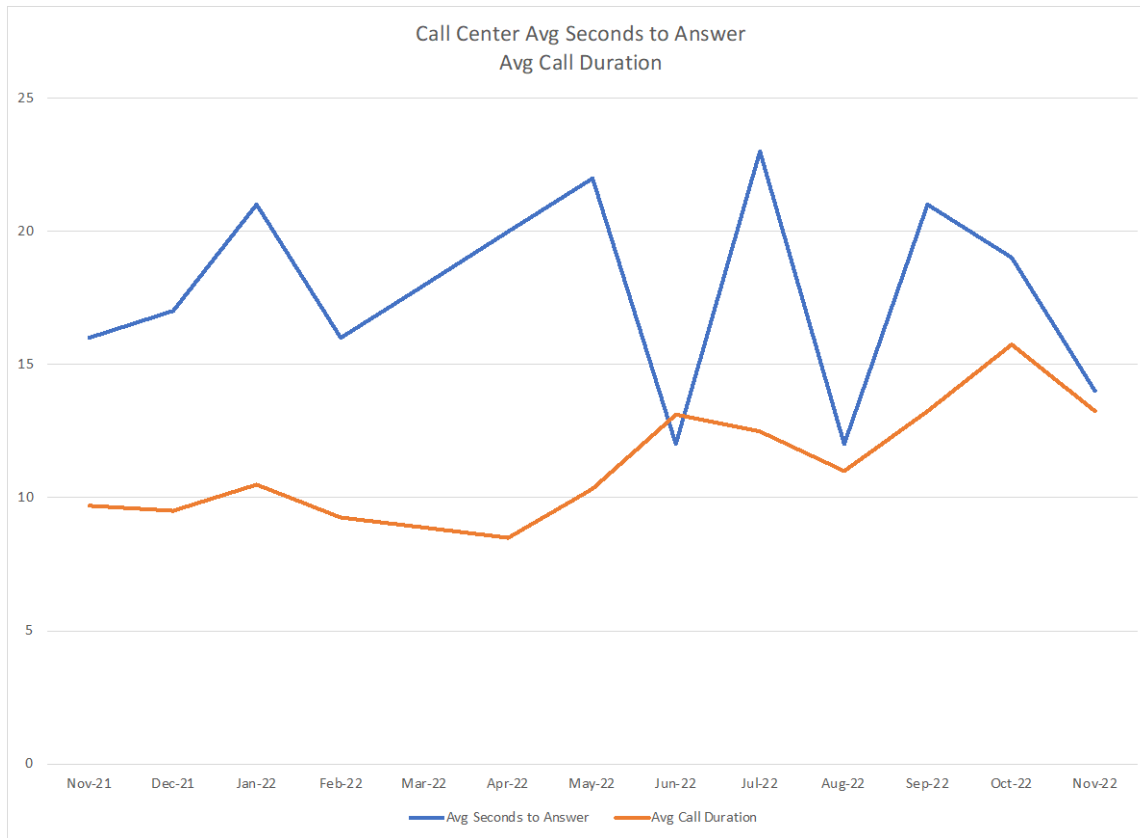
Call Center Activity

The charts below reflect customer activity through November 30, 2022:



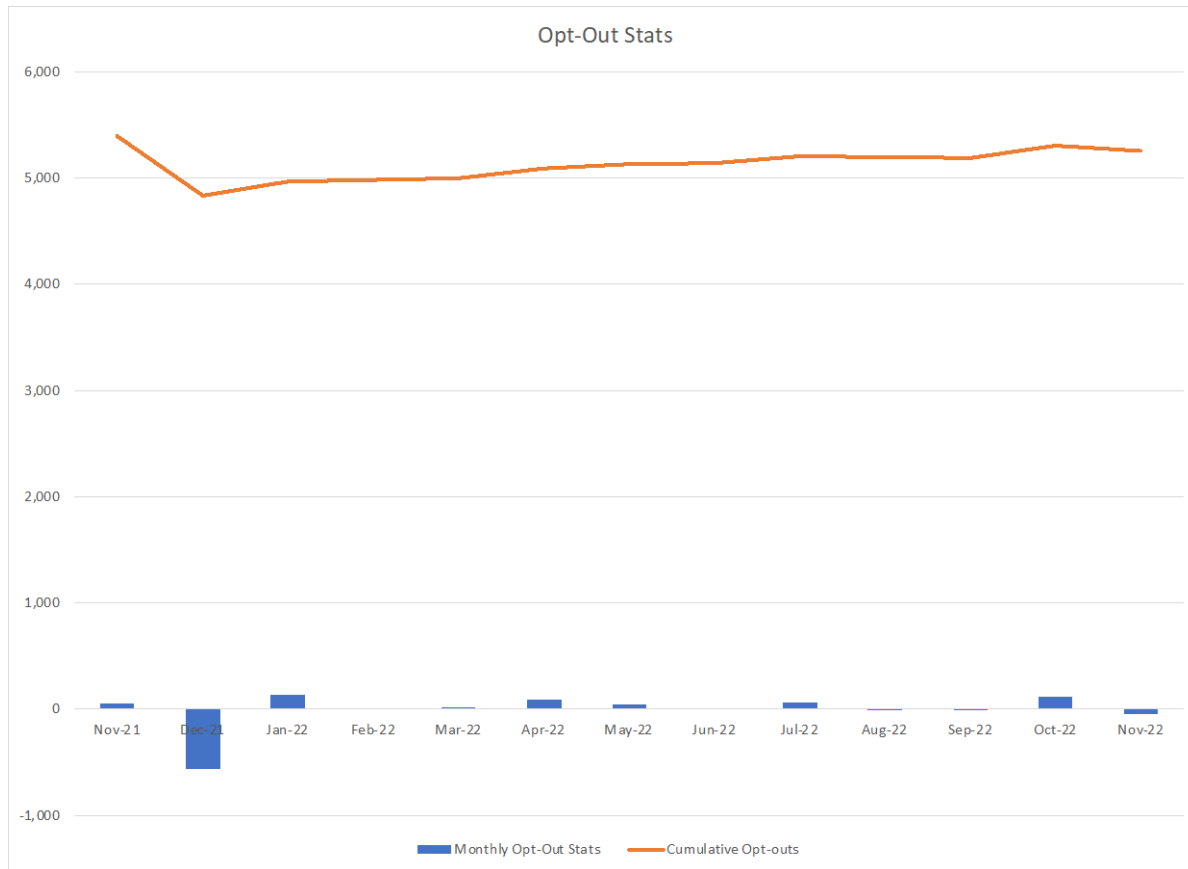
Calls to the call center have dropped off and are returning to the pre-Net Energy Metering true-up levels. Net Energy Metering inquiries continue to be the top issue followed by billing questions.

The following chart reflects call center average seconds to answer and average call duration:



Both average seconds to answer and call time reduced in November compared to September and October.

The following chart reflects the monthly and cumulative opt-outs for CEA.



CEA realized a slight net decrease in opt outs again in September with an overall participation rate of 92.16%.

The following chart reflects enrollments in CEA’s power supply products:

POWER SUPPLY PRODUCT	OCT 2022	NOV 2022	Net Change
Clean Impact – 50% Renewable	177	179	+ 2
Clean Impact Plus - 75% Carbon Free	59,214	59,240	+ 26
Green Impact – 100% Renewable	432	434	+ 2
TOTAL ACCOUNTS	59,823	59,853	+ 30

Consistent with the increase in participating customers, CEA realized an increase in each of its power supply products.

Contracts \$50,000 - \$100,000 entered into by Chief Executive Officer

VENDOR	DESCRIPTION	AMOUNT
None		

REGULATORY UPDATE

CEA's regulatory attorney, Ty Tosdal, will provide an update to the Board on current regulatory activities (Attachment A).

FISCAL IMPACT

There is no fiscal impact by this action.

ATTACHMENTS

Attachment A – Tosdal APC Regulatory Update Report

Clean Energy Alliance: Regulatory Update

December 15, 2022

Tosdal APC



Overview

NEM 2.0 vs. NEM 3.0 Comparison (R. 20-08-020)

Resource Adequacy: Update (R. 21-10-002)

NEM 2.0 vs. NEM 3.0 Comparison

CPUC issued a Revised Proposed Decision in the Net Energy Metering (NEM) proceeding on November 10, 2022.

- Eliminates net energy metering and adopts net billing.
- Revises export compensation to reflect the Avoided Cost Calculator (ACC).
- Modifies transition period and transition credits.
- Eliminates Grid Participation Charge for the time being, but fixed charges will be taken up in the demand flexibility proceeding.

Decision is scheduled for a vote on December 15, 2022.

NEM 2.0 vs. NEM 3.0 Comparison

	NEM 2.0	NEM 3.0
Pay Back Period Goal	None	9 years
Export Compensation	Retail rate	<u>Avoided Cost Calculator (ACC):</u> ACC provides an average value for each hour, differentiated between weekday and weekend.
Import Compensation	TOU rate by customer election.	SCE: TOU-D-PRIME PG&E: E-ELEC SDG&E: EV-TOU-5

NEM 2.0 vs. NEM 3.0 Comparison

	NEM 2.0	NEM 3.0
Transitional Pricing	None	<u>ACC Plus Adder</u> : fixed cents per kilowatt-hour (c/kWh) export adder in addition to ACC-based export credits.
Transition Process	Grandfathering	<p>Years 1-5: Export compensation lock-in period.</p> <p>Year 6 + : Export compensation fluctuates based on ACC.</p>

NEM 2.0 vs. NEM 3.0 Comparison

	NEM 2.0	NEM 3.0
Rate Schedule	TOU schedule required but customer may elect schedule.	SCE: TOU-D-PRIME PG&E: E-ELEC SDG&E: EV-TOU-5
NEM Legacy Period	20 years	20 years
Storage Rebate	None	None

NEM 2.0 vs. NEM 3.0 Comparison

Implementation Schedule

Step 0: NEM 2.0 Sunset Period begins.

Step 1: Within 30 days, IOUs submit Tier 1 advice letters on rates and marketing.

Step 2: Within 60 days, IOUs submit Tier 2 advice letters with rate factors.

Step 3: CPUC Energy Division disposes of advice letters.

Step 4: Within 120 days, IOUs implement NEM 2.0 sunset.

Step 5: Within 12 months, IOUs implement Net Billing Tariff.

Resource Adequacy: Update

Background

- D. 21-07-014 approved PG&E's "slice-of-day" proposal in concept.
- D. 22-06-050 adopted SCE's 24-hour framework and related requirements.

PG&E filed the Phase 2 workshop report on final proposals for workstreams 1-3 in the Resource Adequacy (RA) proceeding on November 15, 2022.

Report is part of the CPUC's comprehensive overhaul of RA rules in the proceeding.

Resource Adequacy: Update

Workshop Report addresses Phase 2 Workstreams:

1. 24-hour Compliance Tools: resource master database, resource showing, CAM
2. Planning Reserve Margin (PRM): test year, single PRM, resource counting
3. CAISO and CPUC Validation: administrative and process modifications

Resource Adequacy: Workshop Report

Next Steps

November 15, 2022 – Final Proposals Filed

December 1, 2022 – Opening Comments

December 12, 2022 – Reply Comments

Q1 2023 – Proposed Decision

2024 – Implementation Test Year

2025 – Full Implementation

QA



Staff Report

DATE: December 15, 2022

TO: Clean Energy Alliance Board of Directors

FROM: Barbara Boswell, Chief Executive Officer

ITEM 3: Declare Clean Energy Alliance Community Advisory Committee Vacancy for the City of Carlsbad for Term Ending December 2025 and Open Application Period to be open December 16 – January 15, 2023

RECOMMENDATION

Declare Community Advisory Committee vacancy for the City of Carlsbad for term ending December 2025 and direct application period to be open December 16 – January 15, 2023.

BACKGROUND AND DISCUSSION

Clean Energy Alliance's (CEA) Community Advisory Committee (CAC) Policy (Attachment A) establishes that the CAC shall consist of two (2) appointees from each CEA member agency as well as one CEA Board Alternate to serve as CAC Chair, to serve three (3) year staggered terms. For initial appointments, one appointee shall serve a two-year term. The City of Carlsbad has one CAC position whose term ends December 2022. The vacant position shall serve the three-year term 2023 – 2025.

CAC members shall be residents (property owners or renters) or business owners within the service territory for the city which the CAC member is representing and are subject to all applicable conflict of interest laws and may be required to disclose potential conflicts by filing a Form 700 Statement of Economic Interest. The CAC Policy further states that CAC applicants that have a relevant background in, or expertise related to, one of the following fields: electricity, community outreach or engagement, or policy advocacy will be considered.

CAC appointees must be committed to serving on the CAC and attending regular CAC meetings and occasional CEA Board meetings. In 2022 CAC meetings occurred bi-monthly on the first Thursday of each month. CAC members are expected to maintain a good attendance record and will be removed from the CAC after two consecutive unexcused absences from CAC meetings or have unexcused absence for more than 25% of the CAC meetings in a calendar year. The CEA Board of Directors will consider the 2023 CAC workplan and schedule at its regular meeting January 26, 2023.

The CAC is subject to the Brown Act and all meetings are publicly noticed and held in public settings pursuant to requirements of the Brown Act.

CEA will advertise the openings on its social media, post a notice along with the application on its website, and will work with Carlsbad staff to advertise the vacancy. Applications will be accepted December 16 – January 15, 2023 and will be provided to the Carlsbad Primary Board Member for review and consideration. The Board Member will nominate the CAC member from their respective pool of applicants for full CEA Board approval at the January 26, 2023, CEA Board meeting.

FISCAL IMPACT

There is no fiscal impact as a result of this action.

ATTACHMENTS:

Attachment A - Clean Energy Alliance Community Advisory Committee Policy

Clean Energy Alliance

JOINT POWERS AUTHORITY

COMMUNITY ADVISORY COMMITTEE PURPOSE AND SCOPE

Community Advisory Committee (CAC) Authorization

Section 5.9 of the Clean Energy Alliance (CEA) Joint Powers Authority (JPA) Agreement provides the authority for the CEA Board to establish an advisory committee to assist the Board in implementing and operating its CCA program. Pursuant to the JPA Agreement, the committee should have equal representation from the member agencies. The Board may establish criteria to qualify for appointment to the committee, and establish rules, regulations, policies or procedures to govern the committee.

CAC Membership Criteria

- The CAC membership shall consist of two (2) appointees from each CEA member agency and 1 Board Alternate. CAC committee members shall serve staggered three (3) year terms with a two-term limit. In the inaugural year, one appointee seat from each member agency shall serve two (2) years.
- Board Alternate will serve as CAC Chair and provide regular reports to the CEA Board.
- Committee members serve at the pleasure of the Board.
- CAC members will be subject to all applicable conflict of interest laws and may be required to disclose potential conflicts by filing a Form 700. (Information about conflicts of interest and Form 700 can be found here: <http://www.fppc.ca.gov/Form700.html>.)
- Members shall be residents (property owners or renters) or business owners within the service territory of CEA.
- CAC membership will be considered for those that have a relevant background in or expertise related to one or more of the following fields: electricity, community outreach or engagement, or policy advocacy.
- Applicants must be committed to serving on the CAC and attending regular committee meetings, and occasional CEA Board meetings. Committee meetings will be held quarterly unless additional meetings are directed by the Board. Members are expected to maintain a good attendance record. A committee member will be removed from the

CAC if the member has two consecutive unexcused absences from CAC meetings or has unexcused absences from more than 25% of the CAC meetings in a calendar year.

- The CAC is subject to Brown Act and all meetings will be publicly noticed and held in public settings pursuant to requirements of the Brown Act.
- CAC meetings, times and location will be determined by the CEA Board.

CAC Purpose & Objectives

The purpose of the CAC is to advise the CEA Board of Directors on those matters concerning the operation of its Community Choice Aggregation (CCA) program as directed by the Board of Directors in an annual workplan for the CAC that is adopted by the Board. The objectives of the CAC are to provide feedback to the Board, act as a liaison between the Board and the community and serve as a forum for community input on those matters assigned to the CAC in the annual workplan. The CAC shall not have any decision-making authority but will serve as an advisory body to the Board of Directors.

CAC Member Selection Process

Applicants must complete and submit the Clean Energy Alliance Community Advisory Committee Application (Attachment A). Board Members will nominate two applicants from their respective communities to the full Board for approval. In addition, the full Board will select one Board Alternate to participate on the CAC.

Attachment A
Clean Energy Alliance
Community Advisory Committee Application

CAC Purpose & Objectives

The purpose of the CAC is to advise the CEA Board of Directors on those matters concerning the operation of its Community Choice Aggregation (CCA) program as directed by the Board of Directors in an annual workplan for the CAC that is adopted by the Board. The objectives of the CAC are to provide feedback to the Board, act as a liaison between the Board and the community and serve as a forum for community input on those matters assigned to the CAC in the annual workplan. The CAC shall not have any decision-making authority but will serve as an advisory body to the Board of Directors.

NAME: _____

ADDRESS: _____

PHONE: _____ EMAIL: _____

Are you a resident/business owner of one of the CEA member cities?

If yes, which city: _____

Please attach a current resume and respond to the following questions. Please attach a separate sheet if additional space is needed.

What experience/perspective will you bring to the committee?

Describe any relevant background in or expertise related to one or more of the following fields: electricity, community outreach or engagement, or policy advocacy.

Do you have any interests or associations that might present a conflict of interest? If yes, please explain:

What do you hope to accomplish as a member of the Clean Energy Alliance Community Advisory Committee?

Please provide three references

NAME	Phone Number	Relationship

By signing below, I acknowledge that I have sufficient time to actively participate in the Clean Energy Alliance Community Advisory Committee for the benefit of the program and the communities it serves. I understand that committee members are subject to conflict of interest laws and required to disclose potential conflicts by filing Form 700.

Signature: _____

Date: _____

Completed applications should be emailed to: Secretary@TheCleanEnergyAlliance.org



Staff Report

DATE: December 15, 2022

TO: Clean Energy Alliance Board of Directors

FROM: Barbara Boswell, Chief Executive Officer

ITEM 4: Consider Appointments for Clean Energy Alliance Community Advisory Committee for Cities of Oceanside and Vista

RECOMMENDATION

- 1) Approve Clean Energy Alliance Community Advisory Committee Nominees for City of Oceanside, one for term ending December 2024 and one for term ending December 2025.
- 2) Approve Clean Energy Alliance Community Advisory Committee Nominees for City of Vista, one for term ending December 2024 and one for term ending December 2025.

BACKGROUND AND DISCUSSION

At its regular Board meeting August 25, 2022, the Clean Energy Alliance (CEA) Board declared Community Advisory Committee (CAC) vacancies for representatives in the cities of Oceanside and Vista and directed applications to be accepted through September 15, 2022. The application period was subsequently extended through November 15, 2022. These appointments will be the first for the cities of Oceanside and Vista.

CEA advertised the openings on its social media, posted a notice along with the application on its website, and worked with staff of the cities of Oceanside and Vista to advertise the vacancies. Applications received by the CEA Board Secretary from individuals interested in serving on the CAC were provided to board members based on the community the applicant was from.

During 2022, the CAC met bi-monthly on the first Thursday of each month and addressed a workplan established by the CEA Board. The Board will consider the CAC 2023 Workplan and meeting schedule at its regular meeting January 26, 2023.

FISCAL IMPACT

There is no fiscal impact by the CAC appointments.

ATTACHMENTS

Redacted Applications for Community Advisory Committee Members for Cities of Oceanside and Vista

Attachment A
Clean Energy Alliance
Community Advisory Committee Application

CAC Purpose & Objectives

The purpose of the CAC is to advise the CEA Board of Directors on those matters concerning the operation of its Community Choice Aggregation (CCA) program as directed by the Board of Directors in an annual workplan for the CAC that is adopted by the Board. The objectives of the CAC are to provide feedback to the Board, act as a liaison between the Board and the community and serve as a forum for community input on those matters assigned to the CAC in the annual workplan. The CAC shall not have any decision-making authority but will serve as an advisory body to the Board of Directors.

NAME: ROGER DAVENPORT

ADDRESS: _____

PHONE: _____ EMAIL: _____

Are you a resident/business owner of one of the CEA member cities? YES

If yes, which city: OCEANSIDE

Please attach a current resume and respond to the following questions. Please attach a separate sheet if additional space is needed.

What experience/perspective will you bring to the committee?

PLEASE SEE ATTACHED...

Describe any relevant background in or expertise related to one or more of the following fields: electricity, community outreach or engagement, or policy advocacy.

Do you have any interests or associations that might present a conflict of interest? If yes, please explain:

SEE ATTACHMENT

What do you hope to accomplish as a member of the Clean Energy Alliance Community Advisory Committee?

Please provide three references

NAME	Phone Number	Relationship

By signing below I acknowledge that I have sufficient time to actively participate in the Clean Energy Alliance Community Advisory Committee for the benefit of the program and the communities it serves. I understand that committee members are subject to conflict of interest laws and required to disclose potential conflicts by filing Form 700.

Signature: _____

Date: 3 SEPT 2022

Completed applications should be emailed to: Secretary@TheCleanEnergyAlliance.org

What experience/perspective will you bring to the committee?

I have extensive experience with renewable power technologies (e.g., solar, wind, OTEC (Ocean Thermal Energy Conversion), wave & currents), utility energy production, and other relevant technologies. My perspective is as a scientist and engineer, with practical operational experience with solar, battery, and concentrating solar power systems.

Describe any relevant background in or expertise related to one or more of the following fields: electricity, community outreach or engagement, or policy advocacy.

My MS degree in Mechanical Engineering included a specialty in Energy Systems Engineering, which included course work in nuclear, chemical, and mechanical engineering of fuel and electric power systems. My 30+ year career was as a research engineer, developing and demonstrating advanced batteries (for utility use); solar concentrating technologies such as dish/Stirling, dish/PV, and heliostats for central receivers; domestic hot water components and systems; high-efficiency reverse-osmosis desalination systems; and, advanced photo- and thermochemical processes for water splitting (hydrogen production) and detoxification of waste. I am very familiar with a wide range of renewable energy and storage technologies, and have personally installed multiple PV and battery systems for myself and with friends and neighbors.

Since my retirement, I have become more active locally, providing input and comments on the Oceanside Climate Action Plan and promoting energy efficiency, solar energy, efficient transportation, and responsible development. I have also volunteered with the Sierra Club and other local groups promoting community involvement and good environmental policies for the city and region.

Do you have any interests or associations that might present a conflict of interest? If yes, please explain:

We have solar PV and a battery system installed at our home, and we produce excess energy that we provide to the electric grid. Regarding solar and battery grid interactions, I therefore have a personal stake in promoting policies attractive to homeowner/power producers like myself.

What do you hope to accomplish as a member of the Clean Energy Alliance Community Advisory Committee?

I think my deep technical background (30+ years of active RD&D on solar, wind, batteries and other advanced technologies) would be useful for the Committee. I want to help make the transition to CEA one that will benefit all Oceansiders, and to work towards a local electricity supply system that is not only sufficient, clean, and reliable but also one that provides good value for all members of our community and provides support to those most in need of help.

Please provide three references:

NAME	Phone Number	Relationship
Dr. Barry L. Butler		Technical colleague since 1979 (Solar Energy Research Institute, Science Applications International Corp., Butler Sun Solutions, Inc.)

Paige DeCino		Fellow Sierra Club volunteer; member of CAC (Carlsbad)
"Mo" Lahsaiezadeh		Former Oceanside Water Dept. engineer in charge of energy issues; I met with Mo multiple times to give inputs to the Oceanside Climate Action Plan and encourage Oceanside to join a CCA.

ROGER L. DAVENPORT

Education:

A.B., Physics, University of California, Berkeley, 1977

M.S., Aerospace & Mechanical Engineering (Energy Systems Engineering Option), University of Arizona, Tucson, 1979

Experience:

Mr. Davenport has a general background in physics, and his advanced degree in mechanical engineering emphasized heat transfer, fluid mechanics, and computer modeling. He has extensive experience in the design, development, production, testing, and analysis of solar thermal power systems and components. His solar experience includes:

- Innovation, development, and design of complex high-temperature solar thermochemical hydrogen production (water-splitting) systems;
- Design, construction, operation, and evaluation of commercial dish/Stirling power systems and heliostats;
- Design, construction, and testing of solar dish/PV and single-lens/single cell concentrating PV systems, components, and manufacturing techniques
- Evaluation of the performance of large solar thermal systems using flat plate and parabolic trough concentrating solar collectors to provide process heat (hot air, hot water, steam);
- Innovation and development of low-cost, low-temperature solar residential water and space heating components and systems;
- Innovation, development, and testing of membrane heliostat and dish concentrator systems and fabrication techniques;
- Development of hybrid solar daylighting systems and components; and
- Solar detoxification testing and development.

He performed thermal design of utility load-leveling batteries using advanced sodium sulfur battery cells, and directed the design and construction of a large (30-foot high) high-temperature (1100°C) process test reactor, including thermal and operating controls, data acquisition, wiring, mechanical design, pneumatics, and flow control. He participated in the development and production of advanced vacuum insulation materials for domestic and industrial uses. His computer experience includes model development and analysis of advanced Ocean Thermal Energy Conversion (OTEC) components and systems, thermal and electrical modeling of advanced battery systems, performance and economic modeling of solar thermal components and systems, and real-time control programming for solar power systems (daylighting, dish/Stirling, dish/PV, and heliostat systems). He performed specification, installation, troubleshooting, and maintenance of personal computers and local-area-networks. Finally, he designed, programmed, and operated real-time data acquisition and control systems for experimental and commercial purposes. This included programming systems in C and BASIC on PC's and on custom and commercial microcontrollers, as well as programming and use of commercial programmable logic controllers (PLC's) programmed in BASIC and ladder logic.

Professional Experience:

Engineering Consulting: Since 2006, Mr. Davenport has been performing work as an engineering consultant. Projects have included:

- Worked with the chief designer at Amonix Corp. (www.amonix.com) to re-design their MegaModule™ solar PV concentrator system to reduce weight, simplify fabrication, and reduce cost
- Implemented pick-n-place robotic system for PV cell assembly at Amonix Corp.
- Provided thermal analysis of the Amonix PV Concentrator system and made recommendations about cell mounting and heat rejection fin design and assembly procedures
- Provided phone consulting services on solar thermal technologies to Vista Consulting
- Consulted on optical design and alignment of Southwest Solar Technologies (www.swsolartech.com) 220 sq.m. dish concentrator system
- Performed technical editing and writing of white papers for multiple solar thermal and photovoltaic manufacturers
- Performed equipment layout, instrumentation design, and mechanical design and analysis of components for reverse osmosis water desalination development project for VARI-RO, Inc. (since purchased by General Electric Co.)
- Provided business plan development and technical assistance to WIPOMO, Inc. on vehicle hybridization and electric conversion, as well as advanced lighting systems
- Evaluated proposals and attended project evaluation meetings for DOE SunShot program, DOE ARPA-E program, and SBIR programs
- Provided technical review of papers submitted to conferences for the ASES and ASME conferences (unpaid)
- Provided consulting to Chinese dish development company on dish concentrator design and testing.

Leidos Corp. (formerly Science Applications International Corporation, SAIC): Mr. Davenport joined SAIC as a research engineer/project manager in the Energy Products Division in February 1987. His emphasis from the start was on renewable energy technology development. He recently completed a project to develop a cost-effective solar thermochemical water-splitting process to produce hydrogen, on which he was the lead solar engineer. He was responsible for control system development, system integration, and testing of dish/Stirling and dish/PV solar power systems developed by SAIC for sale to utility and commercial customers, and controls and tracker development for hybrid lighting systems and heliostats. In particular, he was instrumental in the successful demonstration of a first-ever 22 kW_e gas-solar hybrid dish/Stirling system, and led the effort to convert an existing dish system for use with a close-packed concentrating PV receiver. He also led efforts to develop a small, low-cost dish/tracker system for a hybrid daylighting project. He has been intimately involved in the mechanical design, electrical design, controls development, optical analysis, and manufacturing of solar dishes and their components. He contributed to the conception, design, and production of the SAIC advanced mirror facet design using fixed, small mirror tiles mounted on a flat substrate. He also designed and implemented a control system for a set of six heliostats installed at a theme park in Southern California. He designed and implemented the control system for the SAIC 22-facet advanced stretched-membrane heliostat developed under the Solar Manufacturing Technology (SolMaT) program, and participated in the design and production of that unit. Previously, he directed efforts to test a prototype 20 kW_e SAIC/STM

Dish/Stirling system, and was in charge the design of the mechanical focus control system used in that system.

While at Leidos/SAIC he has also managed programs and conducted research on advanced batteries, advanced vacuum insulation materials for appliances and electric vehicles, solar detoxification of water and soil, and solar heliostats and dish concentrator systems for terrestrial and space power. His advanced battery research has included thermal design and computer modeling of utility load-leveling batteries using advanced sodium sulfur batteries, modeling of individual battery cells and modules, x-radiographic studies of operating high-temperature battery cells, and testing of convective cooling system approaches for high-temperature batteries. He managed the construction and operation of a high-temperature process test reactor for chemical re-processing. He led the fabrication and testing activities of a solar water detoxification test apparatus for testing concentrating and one-sun photoreactors employing fixed catalysts. Finally, he contributed to the development of solar heliostat and dish concentrators using stretched-membrane and conventional mirror technologies, to the demonstration of an early, small 300W photovoltaic dish concentrator system, and performed research on the potential production of solar concentrators on the moon and on Mars using indigenous materials.

Bibelschule Bergstrasse & Eastern European Seminary: As a consultant in West Germany and Austria from July 1982 through January 1987, Mr. Davenport performed systems analysis, systems integration, trouble-shooting, and programming on a variety of microcomputer systems including a DEC VAX (UNIX), multi-processor systems, and personal computers (e.g., IBM PC-compatibles, Z-80 (TRS-80), Apple 2). Tasks included design, specification, installation, and application (e.g., encryption system, word processing, multi-user database) development on an IBM PC network; maintenance, troubleshooting, maintenance, and repair of microcomputer systems; and applications programming in FORTRAN, BASIC, and C.

Solar Energy Research Institute (SERI): From June 1979 through June 1982, as an Associate Engineer in the Solar Thermal Research Branch of the Solar Energy Research Institute (SERI, now the National Renewable Energy Lab, NREL), Mr. Davenport performed research on ocean thermal energy conversion (OTEC), solar industrial process heat (SIPH), and on low-cost solar collectors and systems for residential use. His analysis of the mist lift process for open-cycle OTEC allowed its operation to be characterized, and identified many important design considerations. His solar industrial process heat research led to identification of design flaws in operating SIPH plants and to co-authoring a comprehensive design handbook for such systems. Finally, Mr. Davenport identified and performed both analytical and experimental studies of innovative components and systems with promise for significant cost reduction in residential solar systems.

Software Proficiency: MS Office (Word, Excel, PowerPoint, Access), Dynamic C (Z180), C, BASIC, FORTRAN, Revelation PC network database, SolTrace (NREL Monte-Carlo ray-trace software), CIRCE (Sandia ray-trace software)

Miscellaneous:

Mr. Davenport is 66 years old and has been married 24 years, with no children. He is culturally adaptable, having lived in Germany and Austria for 4-1/2 years as an adult. He has traveled extensively in North America, Europe, sub-Saharan Africa, and the Caribbean and Pacific Islands.

He is fluent in German and reads, speaks, and understands French at an intermediate level. He has personally installed several grid-tied solar PV systems (fixed and tracking flat-plate) as well as solar hot water systems with flat plate thermal, parabolic trough, and PV collectors. He is a lifetime member of the American Solar Energy Society (ASES) and the Sierra Club. Mr. Davenport has in the past held a DOE Secret clearance.

Honors/Awards:

Honorary Scholarships, University of California, Berkeley, and the University of Arizona, Tucson.

Elected to Phi Beta Kappa, Alpha Chapter, University of California, Berkeley.

Listed in Who's Who in the West (since the 23rd Edition, 1992), Who's Who in California (since the 23rd Ed., 1994), Who's Who in America

SAIC Technical Achievement Award, 1995, "Integration/Operation of Phase I Dish"

SAIC Technical Excellence Award, 1997, "Control Systems Development"

Patents:

- "Method and System for Controlling Operation of an Energy Conversion Device", Patent No. 6,688,303, 10 February 2004, assigned to SAIC.
- "Advanced Optical High-Flux Smoothing Device for a Solar Power System and Method Thereof", patent application filed then dropped by SAIC.
- "Solar Collector," Patent No. 8,662,072 B2, 4 March 2014, assigned to Steven Polk.

Publications:

Author or co-author of over 90 technical reports and over 40 conference papers and journal articles on subjects including solar thermal components and systems, solar energy measurement, advanced batteries, solar detoxification, seawater desalination, solar hydrogen production, and solar cooking.

Technical Reports (95 total)

1. "Solar High Temperature Water-Splitting Cycle with Quantum Boost," with Taylor, R., Genders, D., Talbot, J., and Brown, L., Final Report for DOE Contract No. DE-FG36-07GO17002, 25 April 2014.
2. "Solar High-Temperature Water-Splitting Cycle with Quantum Boost," with Taylor, R., Genders, D., Symons, P., Brown, L., Talbot, J., and Herz, R., FY 2013 Annual Report for DOE Contract No. DE-FG36-07GO17002, 14 September 2013.
3. "Catalina Large-Diameter Membrane Sea Water Reverse Osmosis (SWRO) Energy Reduction Project," with Butler, B., Childs, W., and VanDerLoop, G., Final Report for the State of California Dept. of Water Resources Proposition 50 Grant Program, 2 August, 2013.
4. "Solar High-Temperature Water-Splitting Cycle with Quantum Boost," with Taylor, R., Genders, D., Symons, P., Brown, L., Talbot, J., and Herz, R., FY 2012 Annual Report for DOE Contract No. DE-FG36-07GO17002, 23 August 2012.
5. "Solar High-Temperature Water-Splitting Cycle with Quantum Boost," with Taylor, R., Genders, D., Symons, P., Brown, L., Talbot, J., and Herz, R., FY 2011 Annual Report for DOE Contract No. DE-FG36-07GO17002, 7 September 2011.
6. "Solar High-Temperature Water-Splitting Cycle with Quantum Boost," with Taylor, R., T-Raissi, A., Muradov, N.Z., Huang, C., Fenton, S., Genders, D., and Symons, P., FY 2010

Annual Report for DOE Contract No. DE-FG36-07GO17002, 26 July 2010.

7. "Solar High-Temperature Water-Splitting Cycle with Quantum Boost," with T-Raissi, A., Muradov, N.Z., Huang, C., Fenton, S., Block, D.L., Choi, P., Baik, J., Storhaug, V., and Taylor, R., FY 2009 Annual Report for DOE Contract No. DE-FG36-07GO17002, 1 July 2009.
8. "Solar-Driven Photocatalytically-Assisted Water Splitting," with T-Raissi, A., Huang, C., Muradov, N.Z., Mao, L., Yao, W., Illiassou, B., Fenton, S., Nemoto, Y., Block, D.L. and Taylor, R., FY 2008 Annual Report for DOE Contract No. DE-FG36-07GO17002, 20 Aug 2008.
9. "Heliostat Cost Reduction Study," SAND-2007-3293, with Gregory J. Kolb, et.al., June 2007
10. "Final Report: SAIC Concentrating Dish/PV System Development," , Deliverable 10-1, UNLV contract 03-SAIC-00, 18 June 2007
11. "Concentrating Dish/PV System Extended Operation Test," Deliverable 9-4, UNLV contract 03-SAIC-00, 8 June 2007
12. "Concentrating Dish/PV System 50-Hour Initial Operation Test," Deliverable 9-3, UNLV contract 03-SAIC-00, 11 April 2007
13. "Concentrating PV Receiver Installation and Pre-Testing," Deliverable 9-2, UNLV contract 03-SAIC-00, 31 March 2007
14. "Test Plan: Concentrating PV Receiver On-Sun Testing," Deliverable 9-1, UNLV contract 03-SAIC-00, 27 October 2005
15. "Phase 1 Summary Report: SAIC Concentrating Dish/PV System Development," Deliverable 3.2, UNLV contract 03-SAIC-00, 26 August 2005
16. "Evaluation of Advanced PV Cells for a Concentrating PV Dish System," Deliverable 8.1, UNLV contract 03-SAIC-00, 26 August 2005
17. "Solar Dish Concentrator with Stirling Engine – Task 3.8," Deliverable 3.8.7.6, SMUD Contract #4500014563, 10 February 2005
18. "Dish/Stirling System Operational Summary Report," Deliverable 3.8.6.6, SMUD Contract #4500014563, 21 January 2005
19. "Dish/Stirling System Operational Report: October 2004," Deliverable 3.8.6.5, SMUD Contract #4500014563, 29 November 2004
20. "Dish/Stirling System Operational Report: September 2004," Deliverable 3.8.6.4, SMUD Contract #4500014563, 18 October 2004
21. "Dish/Stirling System Operational Report: August 2004," Deliverable 3.8.6.3, SMUD Contract #4500014563, 20 September 2004
22. "Dish/Stirling System Operational Report: July 2004," Deliverable 3.8.6.2, SMUD Contract #4500014563, 20 August 2004
23. "Dish/Stirling System Operational Report: June 2004," Deliverable 3.8.6.1, SMUD Contract #4500014563, 19 August 2004
24. "SAIC Facet Optical Quality Analysis," Deliverable 5-1, UNLV contract 03-SAIC-00, 24 March 2004

25. "SAIC Dish/PV System Phase 1 Receiver Cooling System Design," Deliverable 6-2, UNLV contract 03-SAIC-00, 8 March 2004
26. "Dish/Stirling System Demo Recommendations," Deliverable 3.8.5.1, SMUD Contract #4500014563, 23 February 2004
27. "SAIC Dish/PV System Optical Alignment Summary," Deliverable 2-8, UNLV contract 03-SAIC-00, 13 January 2004
28. "Test Plan for the SAIC Concentrating Dish/PV System," Deliverable 3-1, UNLV contract 03-SAIC-00, 22 December 2003
29. "Dish/Stirling System Installation and Operation," Deliverable 3.8.2.7, SMUD Contract #4500014563, 19 December 2003
30. "NREL Testing of PV Modules for a Concentrating PV Dish System," Deliverable 2-3, UNLV contract 03-SAIC-00, 12 December 2003
31. "Dish/Stirling System Operation," Deliverable 3.8.2.6 SMUD Contract #4500014563, 10 December 2003
32. "Upgrade of the SAIC Dish at UNLV to a Concentrating PV Dish System", Deliverable 1-2, UNLV contract 03-SAIC-00, 25 November 2003
33. "Heat Rejection System Design for a Concentrating PV Dish System," Deliverable 2-2, UNLV contract 03-SAIC-00, 20 November 2003
34. "Dish/PV System Design and Integration," Deliverable 3.8.3.4, SMUD Contract #4500014563, 30 April 2003
35. "Specifications for a PV Receiver and Inverter System for the SAIC Dish Concentrator," Deliverable 2-1, UNLV contract 03-SAIC-00, 24 April 2003
36. "Operation, Maintenance, and Engineering Development of Dish/Converter Systems," NREL Contract No. XAA-2-32427-01, March 2003
37. "Specifications and Drawings for Integrating an Improved Stirling Engine System with the SAIC Dish Concentrator," Deliverable 3.8.1.3, SMUD Contract #4500014563, 12 March 2003
38. "Secondary Optical Element and Receiver Protection System for a PV Receiver System," Deliverable 3.8.3.3, SMUD Contract #4500014563, 11 March 2003
39. "Plans and Specifications for a PV Receiver System for the SAIC Dish Concentrator," Deliverable 3.8.3.2, SMUD Contract #4500014563, 10 March 2003
40. "Off-Track Protection System for the SAIC Dish/Engine System," Deliverable 3.8.1.2, SMUD Contract #4500014563, 2 March 2003
41. "Dish Design and Structural Modifications Needed for a PV Receiver System," Deliverable 3.8.3.1, SMUD Contract #4500014563, 16 January 2003
42. "Dish Design and Structural Modifications Needed for the STM Beta Stirling Engine," Deliverable 3.8.1.1, SMUD Contract #4500014563, 19 December 2002
43. "Solar Thermal Utility-Scale Joint Venture Program (USJVP) Final Report," SAND2001-1081, Sandia Contract No. AB-8717A, April 2001

44. "O&M of SAIC/STM Dish/Stirling Systems: Phase 2 Final Report," NREL Contract No. ZAR-0-30407-01, 6 March 2001
45. "O&M of SAIC/STM Dish/Stirling Systems: Executive Summary Report," NREL Contract No. ZAR-0-30407-01, 8 June 2000
46. "Heliostat Manufacturing for Near-Term Markets: Phase II Final Report," NREL/SR-550-25837, NREL Contract No. ZAP-5-14168-02, September 1998
47. "Fabrication and Testing of the Solar Detoxification Process," Interim Report 2, Task 003, Contract No. DACA31-92-D-0057, U.S. Army Environmental Center, 7 April 1997
48. "Advanced Point-Focus Concentrator Development," final report, Contract No. AL-6011A, Sandia National Laboratories, 14 October 1996
49. "Heliostat Manufacturing for Near-Term Markets," Phase I summary report, NREL Contract No. ZAP-5-14168-02, 17 May 1996
50. "SAIC Utility Joint Venture Program Phase 1 System Test Plan and Results," Revisions 1-4, 1995
51. "Testing of a Convective Cooling System for a Sodium Sulfur Battery," final report, Contract No. 92-001, Silent Power, Inc., 25 February 1995
52. "Solar Insolation Monitoring Station Design and Implementation," Interim Report 2, Task 1, Contract No. DACA31-92-D-0057, U.S. Army Environmental Center, November 1993
53. "Directly-Deposited Reflective Surfaces for Stretched Membrane Solar Concentrators," with K. Beninga, Final Report, NREL Contract YF-2-1119-1, 30 September 1993
54. "Preliminary System Design for Solar Detoxification of Soil," with C. Jolly; K. Beninga; J. Cole; N. Widmer; J. Rawe; C. Dial; and S. Shealy, Final Report 1, Task 1, Contract No. DACA31-92-D-0057, U.S. Army Environmental Center, June 1993
55. "Preliminary System Design for Solar Detoxification of Soil," with K. Beninga; J. Cole; J. Rawe; and S. Shealy, Interim Report 1, Task 1, Contract No. DACA31-92-D-0057, U.S. Army Environmental Center, March 1993
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61. "Analysis of Maintenance Approaches for Monobloc Utility Batteries," Report SAIC/CSPL 90-

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62. "Failure Switch Effects in All-Parallel Battery Arrays," Report SAIC/CSPL 90-2, 7 September 1990
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64. "The Feasibility of Production of Solar Reflectors from Lunar Materials for Solar Power in Space," Final Report on Univ. of Arizona Contract No. 126719, 30 March 1990
65. "Membrane Concentrators for Advanced Solar Dynamic Power Systems in Space," with K. Beninga, Final Report on NASA Contract NAS3-25342, 6 February 1990
66. "Real-Time X-Radiographic Testing of Sodium Sulfur Battery Cell 25959," SAIC/CSPL 90-1, 11 January 1990
67. "Selection and Design of a Stretched-Membrane Heliostat for Today's Markets," SAND 89-7040, with K. Beninga, and J. Sandubrae, January 1990
68. Davenport, R.L. "Economic Evaluations of Sodium Sulfur Batteries (Preliminary Investigations)," SAIC/CSPL-89-6, 7 July 1989
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70. "Real-Time X-Radiographic Studies of Sodium Sulfur Cell No. 24619," SAIC/CSPL-89-2, 30 June 1989
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74. "Advanced Heliostat Drive Development: Phase I Update Report," with K. Beninga and J.A. Sandubrae, Sandia Contract SAND 5-7867, 24 March 1989
75. "Calculation of Capacity Degradation & Maintenance Requirements for the EPRI 100 MWh Load-Leveling Battery," with K. Beninga, Report SAIC/EPRI-89-1, 13 March 1989
76. "Effects of Failure Switch Device Characteristics Upon Sodium Sulfur Battery Configurations," SAIC/EPRI-88-3, with Dr. B.L. Butler, 22 December 1988
77. "Capacity Degradation of Sodium Sulfur Batteries Composed of Multi-Cell Strings," with Dr. B.L. Butler, SAIC/EPRI-88-2, 21 December 1988
78. "Capacity Modeling of Batteries Based Upon EPRI 4-Module TMS Units," SAIC/EPRI-88-1, with Dr. B.L. Butler, 21 December 1988
79. "Documentation for the SAIC Sodium Sulfur Battery Computer Program Menu System," with Dr. B.L. Butler, 26 August 1988

80. "Documentation for the SAIC Sodium Sulfur Battery Module Simulation Code BATSIM," with Dr. B.L. Butler, 26 August 1988
81. "Silver/Zinc Telemetry Battery Digital Radiographic Inspection," with R. Schirato, 15 June 1988
82. "Performance Modeling of the Sandia-Deliverable Battery," with Dr. B.L. Butler, 27 May 1988
83. "Development of Failure Switch Devices for Sodium Sulfur Batteries (Part I: Conceptual Design Studies)," with Dr. B.L. Butler, et.al., 26 May 1988
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85. "Battery Thermal Management System (TMS) Design for Sodium Sulfur Utility Batteries," with Dr. B.L. Butler, et.al., CSPL/EPRI 87-017, 17 December 1987
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89. "Active Program Research Requirements (APRR) Program: Direct Heating Systems Initial Review and System-Level Ranking," SERI report to SAI, 8 April 1982
90. "Performance and Stability of the Mist Lift Process for Open-Cycle Ocean Thermal Energy Conversion (OTEC)," SERI/TR-252-1422, Feb. 1982
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92. "Preliminary Operational Results of the Low Temperature Solar Industrial Process Heat Field Tests," with C.F. Kutscher, SERI/TR-632-385R, June 1980, revised May 1981
93. "Design Considerations for Solar Industrial Process Heat Systems (Non-tracking and Line Focus Technologies)," with C.F. Kutscher (editor). SERI/TR-632-783, March 1981
94. "Monthly Reporting Requirements for Solar Industrial Process Heat Field Tests," with C.F. Kutscher, SERI/MR-632-714, Sept. 1980
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2. Butler, B., Davenport, R. PV-Powered Solar Kitchen, presented at the 2021 ASES Annual Conference, Boulder, CO, August 2021
3. Davenport, R. Incremental Steps to 100% Solar in a Conventional US Home, presented at the 2017 American Solar Energy Society (ASES) Annual Conference, Denver, CO, October 2017

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6. Taylor, R., Davenport, R., Talbot, J., Genders, D., Brown, L., Herz, R., Overview and Status of the Sulfur Ammonia Thermochemical Hydrogen Production System for Splitting Water, Presentation at the 19th World Hydrogen Energy Conference 2012, Toronto, Ontario, Canada, June 3-7, 2012.
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38. Bechtel, Dr. R., Beninga, K., and Davenport, R.L. "Parabolic Dish Photovoltaic Concentrator Development," 1990 DOE/Sandia Crystalline Silicon Photovoltaic Project Review Meeting, Albuquerque, NM, 7-9 August 1990
39. Davenport, R.L. and Featherby, Dr. M. "Real-Time X-Radiography of Operating Sodium/Sulfur Cells," 24th Intersociety Energy Conversion Engineering Conference, Washington, D.C., 6-11 August 1989
40. Beninga, K. and Davenport, R.L. "An Advanced Concentrator for Solar Dynamic Power Systems in Space," 24th Intersociety Energy Conversion Engineering Conference, Washington, D.C., 6-11 August 1989
41. Davenport, R.L., Featherby, M.F., and Schirato, R. "Real-Time X-Radiography of Operating Sodium Sulfur Cells," EPRI AP-6012-SR, DOE/EPRI Beta (Sodium Sulfur) Battery Workshop VII, Toronto, Ontario, Canada, 1-3 June 1988
42. Davenport, R.L., Featherby, M.F., and Schirato, R. "Real-Time X-Radiography of Operating Sodium Sulfur Cells," Eighth Battery and Electrochemical Contractor's Conference, Vienna, VA, 16-19 November 1987
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References:

1. Robin W. Taylor, supervisor (Leidos/SAIC),
2. Dr. Barry L. Butler, former division manager (SAIC),
3. Dr. Charles F. Kutscher, former supervisor (SERI, now NREL)

Clean Energy Alliance

JOINT POWERS AUTHORITY

COMMUNITY ADVISORY COMMITTEE PURPOSE AND SCOPE

Community Advisory Committee (CAC) Authorization

Section 5.9 of the Clean Energy Alliance (CEA) Joint Powers Authority (JPA) Agreement provides the authority for the CEA Board to establish an advisory committee to assist the Board in implementing and operating its CCA program. Pursuant to the JPA Agreement, the committee should have equal representation from the member agencies. The Board may establish criteria to qualify for appointment to the committee, and establish rules, regulations, policies or procedures to govern the committee.

CAC Membership Criteria

- The CAC membership shall consist of two (2) appointees from each CEA member agency and 1 Board Alternate. CAC committee members shall serve staggered three (3) year terms with a two-term limit. In the inaugural year, one appointee seat from each member agency shall serve two (2) years.
- Committee members serve at the pleasure of the Board.
- CAC members will be subject to all applicable conflict of interest laws and may be required to disclose potential conflicts by filing a Form 700. (Information about conflicts of interest and Form 700 can be found here: <http://www.fppc.ca.gov/Form700.html>.)
- Members shall be residents (property owners or renters) or business owners within the service territory of CEA.
- CAC membership will be considered for those that have a relevant background in or expertise related to one or more of the following fields: electricity, community outreach or engagement, or policy advocacy.
- Applicants must be committed to serving on the CAC and attending regular committee meetings, and occasional CEA Board meetings. Committee meetings will be held quarterly unless additional meetings are directed by the Board. Members are expected to maintain a good attendance record. A committee member will be removed from the CAC if the member has two consecutive unexcused absences from CAC meetings or has unexcused absences from more than 25% of the CAC meetings in a calendar year.

- The CAC is subject to Brown Act and all meetings will be publicly noticed and held in public settings pursuant to requirements of the Brown Act.
- CAC meetings, times and location will be determined by the CEA Board.
- The CAC will elect a Chair who will facilitate meetings and provide reports to the Board as needed.

CAC Purpose & Objectives

The purpose of the CAC is to advise the CEA Board of Directors on those matters concerning the operation of its Community Choice Aggregation (CCA) program as directed by the Board of Directors in an annual workplan for the CAC that is adopted by the Board. The objectives of the CAC are to provide feedback to the Board, act as a liaison between the Board and the community and serve as a forum for community input on those matters assigned to the CAC in the annual workplan. The CAC shall not have any decision-making authority but will serve as an advisory body to the Board of Directors.

CAC Member Selection Process

Applicants must complete and submit the Clean Energy Alliance Community Advisory Committee Application (Attachment A). Board Members will nominate two applicants from their respective communities to the full Board for approval. In addition, the full Board will select one Board Alternate to participate on the CAC.

Attachment A
Clean Energy Alliance
Community Advisory Committee Application

CAC Purpose & Objectives

The purpose of the CAC is to advise the CEA Board of Directors on those matters concerning the operation of its Community Choice Aggregation (CCA) program as directed by the Board of Directors in an annual workplan for the CAC that is adopted by the Board. The objectives of the CAC are to provide feedback to the Board, act as a liaison between the Board and the community and serve as a forum for community input on those matters assigned to the CAC in the annual workplan. The CAC shall not have any decision-making authority but will serve as an advisory body to the Board of Directors.

NAME: Mohammadali "Mo" Lahsaiezadeh, Ph.D.; REHS

ADDRESS:

PHONE:

EMAIL:

Are you a resident/business owner of one of the CEA member cities? YES

If yes, which city: Oceanside

Please attach a current resume and respond to the following questions. Please attach a separate sheet if additional space is needed.

What experience/perspective will you bring to the committee?

I have over 30 years of environmental management experience working for the state, county, and the local jurisdictional government agencies. As the former Environmental Scientist with the State of California-EPA, I enforced the California Water Quality Act throughout the San Diego region. As the former Project Manager for the County of San Diego Department of Environmental Health (DEH), I managed the clean-up of contaminated sites in San Diego County. As the former Environmental Officer for the City of Oceanside, I implemented the environmental regulatory programs including, but not limited to, Watershed Protection (Cleanwater), Alternative Sources of Energy such as solar projects, electric vehicle (EV) charging infrastructure, Property Assessed Clean Energy (PACE), energy efficiency projects for the existing city facilities (i.e. retrofitting existing city buildings), and the development of the city's Climate Action Plan (CAP) from inception. Additionally, I represented the city in the regional committees including but not limited to the North County Energy Action Collaborative (NCEAC). NCEAC founded in 2015 and comprises the cities of Del Mar, Solana Beach, Encinitas, Carlsbad, and Oceanside; SANDAG

Energy Workgroup (EWG); San Diego County Stormwater Protection Management Committee; San Diego Integrated Regional Water Management (IRWM). IRWM program began in 2005 as an interdisciplinary effort by water retailers, wastewater agencies, stormwater & flooding managers aimed at developing long-term water supply reliability, improving water quality, and protecting natural resources funded by the California Department of Water Resources (DWR).

Describe any relevant background in or expertise related to one or more of the following fields: electricity, community outreach or engagement, or policy advocacy.

As the former Environmental Officer for the City of Oceanside, I represented the city in the SANDAG Energy Workgroup (EWG). As a member of the SANDAG-EWG, I introduced the regional energy program to the city elected officials and the city's upper management team. I advocated and encouraged the city to develop and implement the energy efficiency related programs including but not limited to obtaining a grant from the American Recovery Act offered by the federal government in 2010; facilitated the development of the city's energy efficiency plan and implementation of the plan by various city departments; installation of solar energy projects at the city's facilities such as San Luis Rey Wastewater Treatment Plant, City Police Department headquarter, and the selected city parks and fire stations; participated in the development of the City's Climate Action Plan (CAP); actively explored and discussed the possibility of forming a CCE program for the north county cities along the Highway 78 corridor. I diligently reached out to representatives of the north county jurisdictions and discussed the possibilities of forming a new CCA or joining an existing CCA-JPA program.

Do you have any interests or associations that might present a conflict of interest? If yes, please explain:

None. I am a retired citizen and have been residing in the Rancho Del Oro Community in Oceanside for the past 30 years.

What do you hope to accomplish as a member of the Clean Energy Alliance Community Advisory Committee?

As the former Environmental Officer for the city of Oceanside from 2010 to 2020, I was involved in evaluating different options for forming a sustainable CCA program for the San Diego county coastal jurisdictions and the municipalities along the Highway 78 corridor. I gained a good understanding of the existing CCA programs in California by attending numerous state-wide and regional CCA workshops. If selected as a member of CEA-CAC, my hope is to share my knowledge and experience with other CEA committee members and bring the concerns of my community to the attention of the CEA Board members. My goal will be to apply my knowledge and work experience toward a sustainable CCA program that can be improved continuously overtime.

Please provide three references

NAME	Phone Number	Relationship
Roger Davenport		Fellow Sierra Club member
Jerry Kern		Former City of Oceanside council member
John Conley		Vista Director of Comm. Development Dept.

By signing below I acknowledge that I have sufficient time to actively participate in the Clean Energy Alliance Community Advisory Committee for the benefit of the program and the communities it serves. I understand that committee members are subject to conflict of interest laws and required to disclose potential conflicts by filing Form 700.

Signature: *m.a. lahsaiezadeh*

Date: Sept 13, 2022

Completed applications should be emailed to: Secretary@TheCleanEnergyAlliance.org

Mohammadali “Mo” Lahsaiezadeh

Environmental Officer

SPECIFIC FIELDS OF PRACTICE

Water Quality & Watershed Protection, Water Conservation, Climate Change, Sustainability, Energy Efficiency & Alternative Sources of Energy Programs.

EDUCATION

University of California, Riverside, California - *Ph.D. in Environmental Plant Physiology & Botany*

GRADUATED DEC. 1983

Received the 1981 James & Margaret Lesley Scholarship

University of California, Riverside, California - *M.S. in Plant Sciences*

GRADUATED JUNE 1979

Jundy Shapour University, Ahvaz, Iran - *B.S. in Agricultural Science*

GRADUATED JUNE, 1976

Highest GPA in graduating class, which led to a full scholarship to attend the University of California Riverside

SELECTED ACADEMIC APPOINTMENTS

Palomar Community College, San Marcos, CA - *Adjunct Professor*

1997 - 2011

Courses taught: Introduction to Environmental Technology, Hazardous Waste Management, Hazardous Materials Management, and Environmental Health Effects/Introduction to Toxicology

National University, San Diego, CA - *Adjunct Professor*

1998 - 2017

Courses taught: Environmental Safety (MGT 450), Managing Safety Issues & Regulations (MGT 651), Site Assessment & Environmental Remediation Methods, and Environmental Science & Engineering Management (SEM 606)

University of California, Riverside & University of California, Irvine - *Adjunct Professor*

2003 - PRESENT

Courses taught: Watershed & Storm Water Regulations & Management, Clean Water Program Regulations & Management and Assessment & Remediation of Environmental Contamination.

California State University, San Bernardino - *Adjunct Professor*

FALL SEMESTER 2006

Courses taught: Clean Water Program Regulations & Management

California State University, San Marcos - Adjunct Professor

SUMMER SEMESTER 2019

Courses taught: Water Science, Engineering, & Technology for Water Managers

SELECTED WORK EXPERIENCE

City of Oceanside Water Utilities Department, Oceanside, CA -

Environmental Officer

2003 - 2020

- Managed budget, planning and implementation of programs, including City's Climate Action Plan, Environmental Sustainability Program, Energy Efficiency Projects, Jurisdictional Runoff Management Program; Watershed Protection Management Program; Regional Harbor Water Quality Monitoring Program; Bacteria & Nutrients Total Maximum Daily Loads (TMDLs) Technical Projects; Water Conservation Program; and Energy Efficiency & Conservation Program
- Coordinated surface and groundwater quality protection programs, industrial & commercial waste discharge inspection programs, and other environmental health programs with public agencies, nonprofits, and private organizations
- Consulted with and advised various departments and divisions within the City organization in their compliance with the State and Federal Laws & Regulations including Planning, Building, and Engineering Divisions, Public Works Department divisions including Harbor, Storm Drain, and Park and Recreation maintenance; and Fire & Police Departments
- Ensured and coordinated regional compliance with neighboring jurisdictions (i.e. Cities of Vista and Carlsbad), California Dept. of Transportation, San Diego County; various districts including water/sanitation districts, North County Transit District (NCTD), local school districts, colleges, and hospitals
- Assisted the City Attorney Office in hearings and field investigations as a technical staff expert for environmental related litigation

California EPA Watershed Protection Branch, San Diego, CA -

Environmental Scientist (Water Quality Control Board)

2001 - 2003

- Prepared environmental planning permitting packages, regulatory permits, and other environmental documents
- Implemented enforcement of various environmental health related regulations and conducted natural resources management, planning, and implementation activities
- Applied regulatory requirements and policies in the identification, research, and solution of problems in the areas of environmental monitoring, water resources development, illegal discharge of waste to the lands and waters of the State, toxic and hazardous materials management, pollution source control methodologies, wetland restoration, and watershed evaluation
- Analyzed and evaluated available data on the effects of water pollutants and waste discharges on water resources and human health, and developed recommendations regarding environmental planning programs as they were affected by scientific & economic findings
- Consulted with and advised other agencies including municipalities; districts including water/sanitation districts, transportation districts and school districts; and institutions including academic and hospital organizations engaged in related environmental analysis, management, planning, regulation, investigation, and research

- Met and conferred with individuals and private citizen groups & planning commissions to obtain compliance with laws and regulations concerning environmental requirements of the State, and participated in hearings and field investigations as a technical staff expert for environmental issues

San Diego Department of Environmental Health, Site Assessment and Mitigation

Program - Project Manager (Land & Water Quality Division)

1989 - 2001

- Directed investigations and remediation of the county-wide contaminated sites
- Managed cases impacted by underground storage tank release of petroleum products, pesticides, heavy metals and hazardous wastes.
- Protected public health and public drinking water supplies and regulated impacts to surface water and/or groundwater resources.
- Provided consultation to property and/or business owners in conducting assessment and remediation of their contaminated sites and advised on-site management and health and safety considerations and evaluated and approved risk assessment & community health & safety plans.
- Coordinated water quality protection, waste management control measures, and other environmental health programs with public agencies including Cal-EPA Regional Water quality Control Board (RWQCB) in San Diego, U.S. Fish & Wildlife Service (USFWS), California Department of Fish & Wildlife (CDFW), California Department of Toxic Substance Control (DTSC), California Department of Agriculture (CDFA), San Diego County Department of Agriculture, and San Diego County Air Pollution Control District (SD-APCD).

CERTIFICATES

California Registered Environmental Health Specialist (REHS), Hazardous Materials Management Certificates (UC San Diego), Site Assessment & Remediation Certificate (UC San Diego), National Interagency Incident Management System (NIIMS)/Incident Command-U.S. Coast Guard & FEMA, Wetland Delineation & Management Program Certificate (U.S. Army Corps of Engineers)

AWARDS

1996 & 1997 & 1999 & 2000: Received the United Nations Development Program (UNDP) Consultancy Award in Site Assessment & Mitigation Technologies, Pollution Prevention, and Pesticide Use Reduction in the developing nations

1998: A fellowship award from the Advanced Technology Environmental Education Center (ATEEC) sponsored by the National Science Foundation (NSF)

1997: County of San Diego Department of Environmental Health Award for Leadership, Professionalism and Public Service

Clean Energy Alliance Community Advisory Committee Application

CAC Purpose & Objectives The purpose of the CAC is to advise the CEA Board of Directors on those matters concerning the operation of its Community Choice Aggregation (CCA) program as directed by the Board of Directors in an annual workplan for the CAC that is adopted by the Board. The objectives of the CAC are to provide feedback to the Board, act as a liaison between the Board and the community and serve as a forum for community input on those matters assigned to the CAC in the annual workplan. The CAC shall not have any decision-making authority but will serve as an advisory body to the Board of Directors.

NAME: Joe Houde

ADDRESS:

PHONE:

EMAIL:

Are you a resident/business owner of one of the CEA member cities? Yes

If yes, which city: Vista

Please attach a current resume and respond to the following questions.

Please attach a separate sheet if additional space is needed. What experience/perspective will you bring to the committee?

- I am President on North County Climate Change Alliance (NCCCA).
- I am active as a Climate Reality Project leader, Vice-Chair of North County Group of the Sierra Club, a member of San Diego 350, the San Diego Green New Deal, and an advisor to Clean Earth for Kids
- I am actively participating in providing comments to San Diego County's Regional Decarbonization Framework. See the attached comment letter as an example of comments.
- I am a climate and political activist

Clean Energy Alliance CAC July 16, 2020

Describe any relevant background in or expertise related to one or more of the following fields: electricity, community outreach or engagement, or policy advocacy.

I architected the first-in-the-world supermarket bar-code scanning checkout system and was a team-member in the design of the world's first Point-of-Sale system. Subsequently I owned and operated a global network technology consulting firm for three decades until retirement.

NCCCA is committed to providing world-class climate education. We have sponsored webinars featuring Amory Lovins, Bill McKibben, Michael Mann, Mark Z. Jacobson, Paul Hawken, Peter Kalmus and many other thought leaders.

Do you have any interests or associations that might present a conflict of interest?

None. But I am committed to working to solve our climate crisis and environmental justice. I have attended training offered by Standing Up for Racial Justice (SURJ).

If yes, please explain: What do you hope to accomplish as a member of the Clean Energy Alliance Community Advisory Committee?

Join a team committed to 100% renewable energy ASAP; work to advance climate solutions and climate justice.

Please provide three references

- 1. Suzanne Hume, Clean Earth for Kids,**
- 2. Merrill Leeds. North County Climate Change Alliance,**
- 3. Marian Sedio, North County Climate Change Alliance**

By signing below, I acknowledge that I have sufficient time to actively participate in the Clean Energy Alliance Community Advisory Committee for the benefit of the program and the communities it serves. I understand that committee members are subject to conflict-of-interest laws and required to disclose potential conflicts by filing Form 700.

Signature: Joe Houde Date: 9/9/2022

Completed applications should be emailed to: Secretary@TheCleanEnergyAlliance.org

Joe Houde

- OBJECTIVE** Clean Energy Alliance advisor
- EXPERIENCE** Have decades of experience managing personally owned successful small businesses and further experience as a middle manager in large companies including TRW, Singer and Fujitsu.
- Designed and taught high level IT seminars to national communications firms worldwide for several decades
- SKILLS** Excellent communication skills. Strong ability to negotiate, develop, and prepare business agreements. Ability to produce high-quality work and meet deadlines in a fast-paced, high volume environment. Excellent teaching and public speaking skills.
- EDUCATION** MS, Electronic Commerce and BBA, National University, San Diego
- MA, Counseling Psychology, Pacifica Graduate Institute, Santa Barbara
- CAPABILITIES** Strong computer and Internet skills
- Strong people, problem solving and interpersonal skills
- Self-motivated and well organized
- Four-time US National Bridge champion
- Enjoy and relish continuous learning
- Teaching and Public Speaking
- Enjoy hiking and being in nature

Attachment A
Clean Energy Alliance
Community Advisory Committee Application

CAC Purpose & Objectives

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NAME: Ronald K. Ishii

ADDRESS _____

PHONE: _____ EMAIL _____

Are you a resident/business owner of one of the CEA member cities?

If yes, which city: Vista

Please attach a current resume and respond to the following questions. Please attach a separate sheet if additional space is needed.

What experience/perspective will you bring to the committee?

I have over 40 years of electric energy experience spanning from central power generation, distributed generation, renewable electric sources, energy efficiency and demand management. Much of my career has focused on electric operations, emerging technologies, and energy policy development/analysis/implementation. I was one of three owners of Alternative Energy Systems Consulting (AESC) an energy engineering consulting firm for twenty-three years. I was CEO and Chairman of AESC for nine of those years, before selling the company to Energie Valsabbia (EVA) in 2017. I am also a native of North San Diego County. Although I have lived in Vista for thirty-four years, I was born and raised in Oceanside.

I feel my extensive energy experience and my personal attachment to Vista and the region are particularly useful for Community Advisory Committee participation. I am a known problem solver especially within concerned groups. I want to do everything I can to provide the citizens of Vista and the other member cities with clean, reliable, affordable electric energy.

Since 2020 I have been consulting under Orion Enertech, LLC. However, I have stopped taking new assignments and have no existing contracts or obligations. I am also listed on the www.aesc-inc.com website as Founder/Chairman Emeritus, though I have no financial interest in AESC, its affiliates nor have any obligations or contracts with them.

I will avoid any potential future conflicts of interest with regard to the Clean Energy Alliance.

I hope to thoughtfully apply my experience to accelerate the transition of the member cities, including Vista, to a carbon free energy market, recognizing that these cities contain highly diverse demographics.

	Phone Number	Relationship
Mike Koszalka, CFO, Sonoma Clean Power		Industry Colleague & Associate
W. Craig Racine, Retired		Business Partner/Mentor
Byron Washom, Dir Strategic Energy Initiatives, UCSD Clean		Industry Colleague & Collaborator

By signing below I acknowledge that I have sufficient time to actively participate in the Clean Energy Alliance Community Advisory Committee for the benefit of the program and the communities it serves. I understand that committee members are subject to conflict of interest laws and required to disclose potential conflicts by filing Form 700.

Signature: _____

Date: September 8, 2022

Completed applications should be emailed to: Secretary@TheCleanEnergyAlliance.org

RONALD K. ISHII, P.E.



PROFESSIONAL SUMMARY:

Ron has more than 40 years of energy industry experience specializing in commercial/industrial energy efficiency, renewable energy, distributed generation, electric power generation, and intelligent energy system technologies. He has provided strategic and tactical market assessment and commercialization consulting services to energy technology investors and developers. He has experience in utility and government funded technologies, energy policy analysis and development, commercialization partnerships and technology due diligence. He served as a LARTA Principal Advisor, assisting DOE funded technology developers in commercialization evaluation and planning, and a member of the Southern California Energy Innovation Network Technical Advisory Committee. Ron has also served as a member of the California Technical Forum, AESP California Chapter board, CADER Technology Committee, U.C. Irvine National Fuel Cell Research Center Technical Advisory Committee, California Energy Commission's Energy Innovations Small Grant Program Technical Review Board and California Manufacturing Technology Consulting's board. He has developed energy technology educational curriculum in partnership with utilities and academia and is widely known for his strategic thinking regarding the impact of emerging energy technologies within evolving energy markets.

PROFESSIONAL EXPERIENCE:

Employment:	Accomplishments and Highlights:
<p>ORION ENERTECH, LLC Vista, CA <u>Principal Consultant</u>, 2020 to Current</p>	<ul style="list-style-type: none">• Provides commercialization consulting to several U.S. Department of Energy SBIR energy technology awardees under the Larta Institute program.• Conducted primary research and developed market size estimates for robotic technologies that repair natural gas pipelines.• Developed energy storage and microgrid curriculum materials for the California Community Colleges and trained Community College instructors.
<p>ALTERNATIVE ENERGY SYSTEMS CONSULTING, INC. Carlsbad, CA <u>Founder and Principal Engineer</u>, 2017 to 2020 <u>Chairman and Principal Engineer</u>, 2014 to 2017 <u>CEO and President</u>, 2008 to 2014 <u>Vice President</u>, 1994 to 2008</p>	<ul style="list-style-type: none">• Key support consultant to the California Self-Generation Incentive Program and California Solar Initiative.• Managed a development team that produced and maintained proprietary renewable energy and energy efficiency software in support of evolving energy markets.• Provided energy technology performance and market assessments for energy efficiency, advanced controls, renewable energy, distributed generation, electrification, and energy storage technologies.• Contributed to the development of intelligent agent software for the dispatch of distributed energy resources in a deregulated market, utilizing utility and government funding.• Sold AESC to Energie Valsabbia (EVA) in 2017 and is now part of the U.S. based Energia Pacifica family of companies.

Employment:	Accomplishments and Highlights:
<p>SCIENCE APPLICATIONS INTERNATIONAL CORPORATION San Diego, CA</p> <p><u>Program Manager</u>, 1989 to 1994</p> <p><u>Senior Engineer</u>, 1985 to 1989</p>	<ul style="list-style-type: none"> • Provided technical services and consulting in support of utility and government funded development efforts for renewable energy, distributed generation, fuel cell, and energy storage technologies. • Completed technical and market evaluations of early microturbine and thermal energy storage technologies. • Implemented first neural network based diagnostic system in a fossil fuel power plant.
<p>SAN DIEGO GAS & ELECTRIC COMPANY San Diego, CA</p> <p><u>Engineer</u>, 1981 to 1985</p>	<ul style="list-style-type: none"> • Provided engineering support for gas turbine maintenance, gas operations, research & development, and power plant performance testing departments. • Managed the installation of the second grid interconnected residential photovoltaic system on the west coast and testing of the second operating cogenerating photovoltaic system in the world. • Provided technical support for the installation of the first widely deployed fuel cell cogeneration technology at two SDG&E customer locations. • Contributed to the one of the first natural gas fuel power plant dynamic simulations using the EPRI Modular Modeling System.

EDUCATION:

PURDUE UNIVERSITY – West Lafayette, IN
Master of Science in Economics, anticipated in 2024

CALIFORNIA STATE UNIVERSITY of SAN MARCOS – San Marcos, CA
Leadership North County, 2022

PALOMAR COLLEGE – San Marcos, CA
Associate of Arts Economics, 2021

UNIVERSITY of CALIFORNIA SAN DIEGO EXTENSION — San Diego, CA
Cogen, Controls, & AI Studies, 1981 – 1993

SAN DIEGO STATE UNIVERSITY — San Diego, CA
Bachelor of Science in Mechanical Engineering, 1981

LICENSES & CERTIFICATIONS:

PROFESSIONAL ENGINEER LICENSE - California
Mechanical Engineer #22958

CERTIFIED MEASUREMENT & VERIFICATION PROFESSIONAL – Association of Energy Engineers
Certification ID #3265

DISTRIBUTED GENERATION CERTIFIED PROFESSIONAL – Association of Energy Engineers
Certification ID #23

SELECTED PUBLICATIONS, PRESENTATIONS, AND WORK PRODUCTS:

Primary Research Market Report: ULC Technologies - Cold Spray Additive Manufacturing for Rehabilitating Natural Gas Pipelines
U.S DOE ARPA-E Program

July 2022

<i>Market Size Report: ULC Technologies - Cold Spray Additive Manufacturing for Rehabilitating Natural Gas Pipelines</i> U.S DOE ARPA-E Program	July 2022
<i>Commercial Strategy Paper: Applied Minerals Inc - Domestic Halloysite-Derived Silicon as a Low-Cost High-Performance Anode Material for Li-Ion Batteries</i> March 31, 2022 LARTA Commercialization Assistance Program	March 2022
<i>Customer Discovery: Tetramer Technologies, LLC - Improved Ionomers and Membranes for Fuel Cells</i> LARTA Commercialization Assistance Program	March 2022
<i>Commercial Strategy Paper: Special Power Sources - Tubular, Proton-Conducting, Ceramic Reversible Fuel Cell for High-Performance Energy Storage</i> LARTA Commercialization Assistance Program	December 2021
<i>Technology Assessment: Physical Optics Corporation's Dielectrophoretic Enhancement of Dewatering</i> LARTA Commercialization Assistance Program	January 2021
<i>Technology Assessment: ULC Robotics' Inline Robot for Inspecting and Repairing Leaks in Pipeline and Preventing Methane Emissions</i> LARTA Commercialization Assistance Program	January 2021
<i>Technology Assessment: AccuStrata's Combinatorial Discovery of Heterogeneous Catalysts Utilizing Emission Spectroscopy and Advanced Machine Learning</i> LARTA Commercialization Assistance Program	September 2020
<i>SGIP GHG Signal Working Group Final Report</i> AESC, Inc. for the California Public Utilities Commission, Rulemaking 12-11-005	June 2018
<i>Microgrids; Introduction to Microgrid Applications, Technologies, Value, and Economics; Curriculum Resources for Providing an Introduction to Microgrids</i> California Community Colleges, Clean Energy and Transportation Initiative	January 2017
<i>Energy Storage; Overview of Technologies, Applications, Policy, and Economics; Curriculum Resources for Providing an Introduction to Energy Storage</i> California Community Colleges, ATRE	January 2016
<i>California Technical Forum (Cal TF): A New Collaborative for Developing Savings Estimates for California</i> California Chapter of the Association of Energy Services Professionals (AESP)	September 2014
<i>Customized Calculated Savings Guidelines for Non-Residential Programs</i> Southern California Edison	April 2012
<i>I-PLACE3S energy module validation testing: PIER final project report</i> California Energy Commission	November 2010
<i>Development of Pre-Calculated Savings for Southern California Edison's 2006-2008 Retrocommissioning Program</i> Study ID: SCE0289.01	March 2010
<i>Turbocor Compressor Energy Savings Review Guidelines/Checklists</i> SCE Design & Engineering Services Conference	March 2010
<i>Best Practices for Cogeneration System Design</i> POWER2007-22113, pp. 29-37; 9 pages, American Society of Mechanical Engineers	April 2009
<i>Small CHP Technologies</i> Applications & Future Implementation Challenges, California Alliance for Distributed Energy Resources	February 2008
<i>A Study of Optimizing the System Integration of Combined Heat and Power (CHP) with Absorption Cooling for Cold Storage Applications: Design Considerations, Modeling and Life Cycle Costing</i> ACEEE Summer Study on Energy Efficiency in Industry	July 2007

<i>Generating and Calculating Energy Intensity Savings from Manufacturing Productivity Improvement Projects</i> ACEEE Summer Study on Energy Efficiency in Industry	July 2007
<i>COMPARATIVE COST OF CALIFORNIA CENTRAL STATION ELECTRICITY GENERATION TECHNOLOGIES; Prepared in Support of the Electricity and Natural Gas Report under the Integrated Energy Policy Report Proceeding Docket 02-IEP-01</i> California Energy Commission	June 2003
<i>Stationary and Transportation Fuel Cell Applications</i> First International Conference on Energy Efficiency and Conservation, Hong Kong SAR	January 2003
<i>Applications and Emissions Profiles of Fuel Cells</i> Annual Meeting of the A&WMA's West Coast Section	March 2001
<i>Molten Carbonate Fuel Cells (MCFCs) for Department of Defense Applications: Rock Island Arsenal MCFC</i> U.S. Army Corp of Engineers, Construction Engineering Research Laboratory, ERDC/CERL TR-00-34	November 2000
<i>Distributed Generation: Convergence of Technology, Infrastructure & Customer Choice,</i> Bonneville Power Administration	March 1999
<i>Evaluation of Self-Generation for Energy Efficiency Programs</i> California Board for Energy Efficiency	October 1998
<i>Fuel Cell Technologies</i> Association of Professional Energy Managers	April 1998
<i>Overview of Fuel Cell Technologies</i> Sustainable Community Action Network	February 1998
<i>Intelligent Energy Systems</i> Electric Power Research Institute Pro-Active Maintenance Workshop	January 1995
<i>Power Plant Fault Detection and Early Warning Using Artificial Intelligence</i> American Nuclear Society	April 1993
<i>Forecasting Coal Composition Effects on Boiler Health Using Artificial Neural Networks</i> EPRI Coal Quality Effects on Power Plants	August 1992
<i>Field Demonstration of the Thermostone III Electric Thermal Storage Furnace</i> EPRI TR-100534 Final Report	April 1992
<i>A Neural Network Based Model of a Hospital Cooling Load</i> Association of Energy Engineers World Energy Engineering Congress	October 1991
<i>Enhanced On-Line Expert Systems for Power Plant Operator Assistance</i> EPRI Expert Systems Applications for the Electric Power Industry	September 1991
<i>A Hybrid Neural Network and Diagnostic System for Monitoring Fossil Fuel Power Plants</i> IEEE Applications of Neural Networks to Power Systems	July 1991
<i>Neural Network Applications in Electric Utility Operations</i> Pacific Coast Electrical Association Workshop	June 1991
<i>Hybrid ANS and Rule Based Expert System for Boiler Monitoring and Diagnosis</i> American Power Conference	April 1991
<i>Short Duration Performance Monitoring of Thermal Energy Storage Systems</i> End-Use Load Information and Its Role in DSM Conference	July 1990
<i>Active Vibration Reduction Systems for Power Plants</i> SAIC Publication	January 1989
<i>Pilot Test of the Crushed Rock Heat Storage Furnace</i> EPRI EM-6144 Final Report	January 1989

<i>Creep/Fatigue Failure of Thick Walled Steam Generator Components in Fossil Fuel Power Plants</i> SAIC Publication	December 1987
<i>Fuel Cells: The Emerging Energy Option</i> Energy Expo-86	November 1986
<i>Special Testing of Electrical and Thermal Characteristics of a 40 kW On Site Fuel Cell</i> Fuel Cell Seminar	November 1986
<i>Encina 4 Startup Optimization</i> EPRI Modular Modeling System Seminar and MMS-02 Release	September 1984
<i>Performance Analysis of a Phase Change Material System in a Greenhouse Field Test</i> San Diego Gas & Electric Publication	June 1983
<i>Downhole Pump for Geothermal Applications</i> EPRI/Instituto De Investigaciones Electricas Joint Conference	April 1982

Attachment A
Clean Energy Alliance
Community Advisory Committee Application

CAC Purpose & Objectives

The purpose of the CAC is to advise the CEA Board of Directors on those matters concerning the operation of its Community Choice Aggregation (CCA) program as directed by the Board of Directors in an annual workplan for the CAC that is adopted by the Board. The objectives of the CAC are to provide feedback to the Board, act as a liaison between the Board and the community and serve as a forum for community input on those matters assigned to the CAC in the annual workplan. The CAC shall not have any decision-making authority but will serve as an advisory body to the Board of Directors.

NAME: Nanci Oechsle

ADDRESS: _____

PHONE: _____ EMAIL: _____

Are you a resident/business owner of one of the CEA member cities?

If yes, which city: VISTA

Please attach a current resume and respond to the following questions. Please attach a separate sheet if additional space is needed.

What experience/perspective will you bring to the committee?

By signing below I acknowledge that I have sufficient time to actively participate in the Clean Energy Alliance Community Advisory Committee for the benefit of the program and the communities it serves. I understand that committee members are subject to conflict of interest laws and required to disclose potential conflicts by filing Form 700.

Signature: _____

Date: 9/14/22

Completed applications should be emailed to: Secretary@TheCleanEnergyAlliance.org

Education

Mira Costa College Fall 2001- Fall 2003; Fall 2012-Spring2015

Certificate of Proficiency in Laboratory Skills Fall 2014

Certificate of Achievement in Bioprocess Technology Spring 2015

California State University San Marcos Spring 1992- Spring 1993

Teaching Credential (did not complete)

California State University San Bernardino Fall 1984- Spring 1989

Bachelor of Arts in Psychology with a minor in Human Development

Skills

Proficient in Word, PowerPoint, Excel, Pages, Quicken and other computer programs. Did well in Data Analysis with Excel; Basic Techniques in Biotechnology; Business and Regulatory Practices in Biotechnology.

Experience

Founding member of VCAP (Vista Climate Action Planners), Vista, Ca 2017-current. Did research on CCE, presented to community members, facilitated getting community members to city council meetings as well as meeting with members and key staff. We hold regular meetings every other month.

Board member, Cashier, Friends of the Vista Library (volunteer), Vista, Ca 2006-present Cashier in the Encore Bookstore, do the monthly scheduling of over a dozen volunteers, attend board meetings.

Treasurer, Secretary Parent Teacher Association (volunteer), Vista, Ca 2003-2012 Took minutes, generated financial reports and presented them to the association, generated tax returns and other forms required by the State of California for a non- profit organization.

Delegate, Community Coordinator, Club Treasurer Democratic Club of Vista(volunteer) San Diego County, Ca 2006-present As a delegate, voted on resolutions at the state party level that would eventually become ballot measures; working precincts door to door and by phone in my community to get the vote out; data entry and generated precinct lists using VoteBuilder. My club duties include doing regular member emails to inform the community on various issues and our meetings.

Manager, Assistant Manager, Lead, Waldenbooks San Bernardino, Escondido and Carlsbad Ca 1985-1989; 1994-1997 Managed up to 12 people, interviewed, hired, inventory control, customer service.

-Assistant Manager, Petco Vista, Ca 1993-1994

Entered payroll, received merchandise, inventory control, cash handling, customer service.

Counselor, Community Interface Services (nonprofit) Carlsbad, Ca 1989-1992

Job skills training and independent living skills training with adults with developmental disabilities.

References:

Lisa Wellens	Founding member of VCAP/friend
Kathleen Boyle	friend
Cipriano Vargas	friend

What experience/perspective will you bring to the committee?

Clean energy is something my husband and I have always been committed to. Back in 2002 when we purchased our home in Vista, the first thing we did was put solar panels on it. When I first started hearing about CCE, it was back in 2016. I was so excited to see how we could get this in Vista. That is what lead Lisa and me to start VCAP. In addition to educating our city council about CCE, we also helped lead in getting community members to the CAP workshops. It was within those workshops that Vistans clearly stated they wanted CCE.

Describe any relevant background in or expertise related to one of more of the following fields: electricity, community outreach or engagement, or policy advocacy?

As stated above, via VCAP our focus is community outreach/engagement and policy advocacy. Writing letters to our representatives, giving presentations at my local club, attending city council meetings, and making public comments in support of 100% clean energy goals, getting a CAP Administrator (which they did hire) and other items that were outlined from the CAP workshops. I've also volunteered to be the home base for the ECookTop program for Vista. I've used social media to demonstrate and chat about how wonderful induction cooktops are.

Do you have any interests or associations that might present a conflict of interest?

No

What do you hope to accomplish as a member of the Clean Energy Alliance Community Advisory Committee?

I want to continue to be an advocate for clean energy here in Vista. Being able to help direct funds to projects that would employ people in my community and be green, is something that really excites me. We have so much potential for making Vista a better place to live.



Staff Report

DATE: December 15, 2022

TO: Clean Energy Alliance Board of Directors

FROM: Barbara Boswell, Chief Executive Officer

ITEM 5: Consideration of the circumstances of the COVID-19 state of emergency to determine whether the legislative bodies of Clean Energy Alliance will continue to hold meetings via teleconferencing and making findings pursuant to Government Code Section 54953(e)

RECOMMENDATION

Continue meetings by teleconferencing pursuant to Government Code Section 54953(e), find that: (1) the Board has considered the circumstances of the state of emergency created by the COVID-19 pandemic; and (2) the state of emergency continues to directly impact the ability of the members to meet safely in person.

BACKGROUND AND DISCUSSION

On September 16, 2021, Governor Newsom signed AB 361 amending the Brown Act to allow local agencies to meet remotely during declared emergencies under certain conditions. AB 361 authorizes local agencies to continue meeting remotely without following the Brown Act's standard teleconferencing provisions, including the requirement that meetings be conducted in physical locations, under specified conditions. Namely, the meeting is held during a state of emergency proclaimed by the Governor and either of the following applies: (1) state or local officials have imposed or recommended measures to promote social distancing; or (2) the agency has already determined or is determining whether, as a result of the emergency, meeting in person would present imminent risks to the health or safety of attendees.

The Board of Directors and CEA's other legislative bodies have met using teleconferencing throughout the COVID-19 pandemic to protect the health and safety of the public and staff. On November 17, 2022, the Board of Directors determined that the factual circumstances exist for CEA to continue to hold meetings pursuant to AB 361.

March 4, 2020, Governor Newsom declared a State of Emergency in response to the COVID-19 pandemic (the "Emergency"). The Emergency continues to exist. In addition, the Centers for Disease Control and Prevention continue to advise that COVID-19 spreads more easily indoors than outdoors and that people are more likely to be exposed to COVID-19 when they are closer than six feet apart from others for longer periods of time. Based on this advice and as a result of the emergency, the Board determined that meeting in person presents imminent risks to the health or safety of attendees.

On October 17, 2022, Governor Newsom announced the State of Emergency is scheduled to end on February 28, 2023.

To continue meeting remotely pursuant to AB 361, an agency must make periodic findings that: (1) the body has reconsidered the circumstances of the declared emergency; and (2) the emergency impacts the ability of the body’s members to meet safely in person, or state or local officials continue to impose or recommend measures to promote social distancing. These findings should be made not later than 30 days after teleconferencing for the first time pursuant to AB 361, and every 30 days thereafter.

The County of San Diego Health and Human Services Agency (HHS) tracks COVID-19 cases and hospitalizations. As demonstrated by the chart below, taken from the HHS website, the County has seen a more than doubling of COVID-19 cases as reported for November 28 compared to November 21.

Highlights

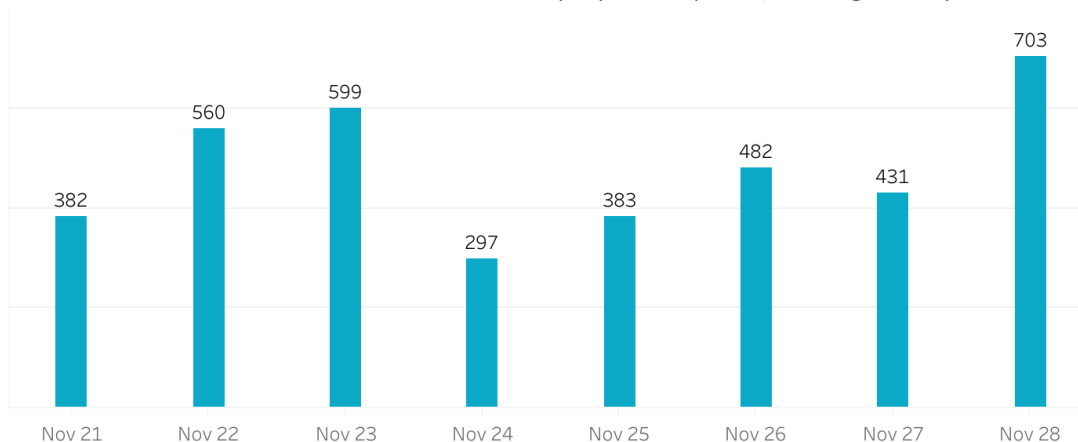
Due to the Thanksgiving holiday, data will be published Wednesday, November 23 instead of Thursday, November 24, and will include the past 6 days of data. Data published on Thursday, December 1 will include 8 days of data.

	Cumulative Count	Change from Previous Report	Percentage	Cumulative Rate per 100,000
Total Confirmed Cases	942,177	3,837	100.0%	28,110
Hospitalizations	36,129	154	3.8%	
Deaths	5,569	7	0.6%	

*Known hospitalizations; information is incomplete for many cases under investigation. Periodically, larger numbers of hospitalizations may be added on one day as a result of batched reports and quality assurance processes.

Cases, hospitalizations, and deaths are added to this table as information becomes available; this may not be indicative of when the event occurred.

COVID-19 Case Counts for Previous 8 Days by Date Reported, San Diego County



In addition to the data above, attached is a COVID-19 Weekly Update dated December 1, 2022, from the County of San Diego for Board information in considering the findings.

FISCAL IMPACT

There is no fiscal impact by this action.

ATTACHMENTS

County of San Diego COVID-19 Weekly Update dated December 1, 2022

County of San Diego

COVID-19 Weekly Update

12/1/2022



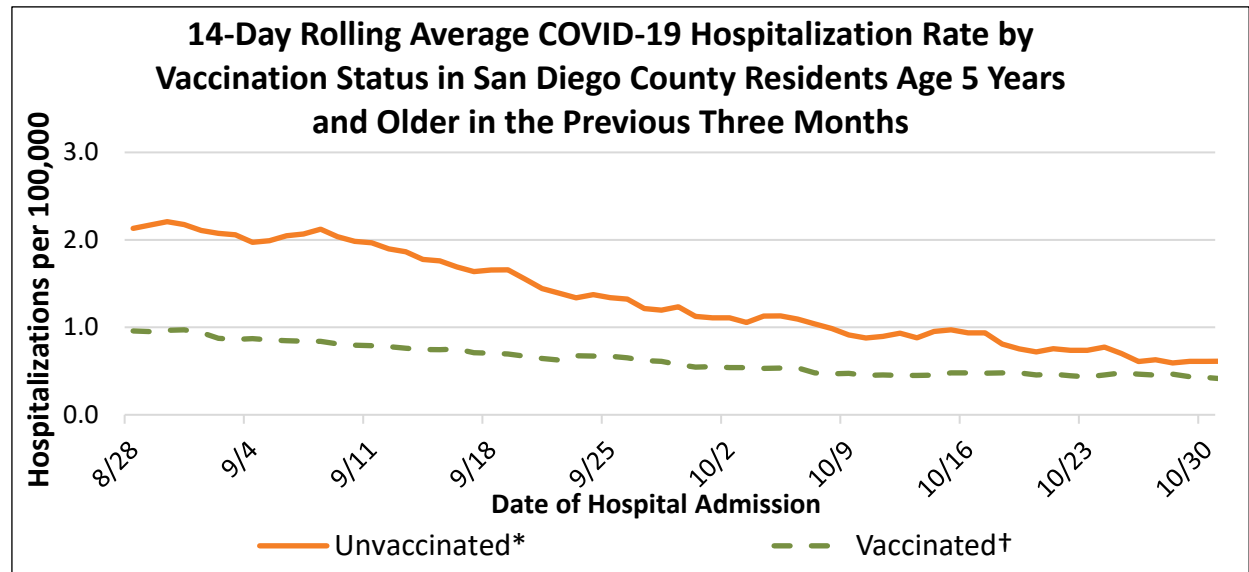
LIVE WELL
SAN DIEGO

COVID-19 Hospitalization Rate by Vaccination Status



Hospitalization rate for unvaccinated residents is **1.8 times higher** than vaccinated residents

Average Daily Hospitalizations per 100,000 People 5 Years and Older (14-day average : 10/23/2022 – 11/5/2022)	
Unvaccinated* (per 100K - 5+ yrs)	Vaccinated† (per 100K - 5+ yrs)
0.78	0.43



According to CDC, several factors likely affect crude case rates by vaccination and booster dose status, making interpretation of recent trends difficult. Limitations include higher prevalence of previous infection among the unvaccinated and un-boostered groups; difficulty in accounting for time since vaccination and waning protection; and possible differences in testing practices (such as at-home tests) and prevention behaviors by age and vaccination status.

*An unvaccinated hospitalization, or death is one that occurs in a person who has not received a COVID-19 vaccine. Partially vaccinated persons are excluded.

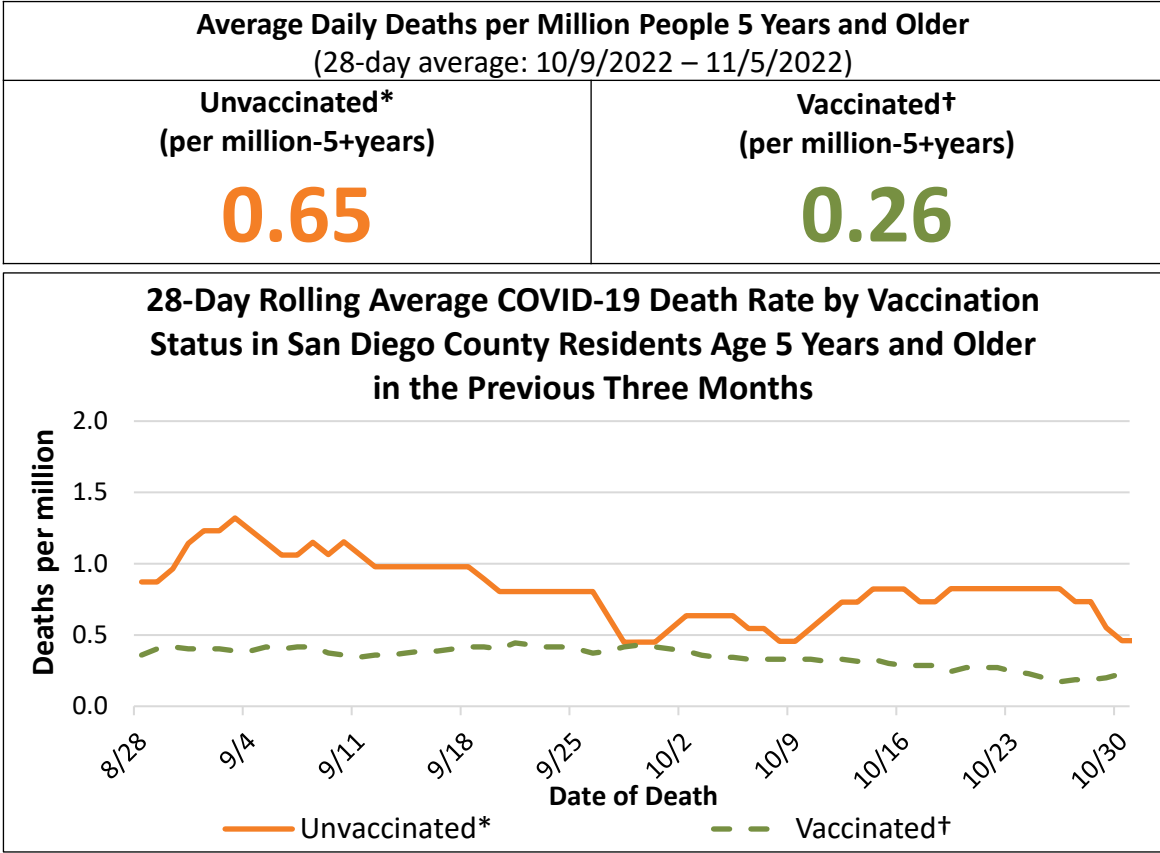
†A vaccinated hospitalization or death is one that occurs in a person who received at least two doses of a two-dose vaccine series (e.g., Pfizer, Moderna) or one dose of a one-dose series (e.g., Johnson & Johnson) at least 2 weeks before they tested positive for COVID-19. This includes persons who have received a monovalent or bivalent booster dose.

San Diego County Population from SANDAG 2019 Population Estimates (Prepared June 2020) for persons 5 years of age and older = 3,144,061. The vaccinated population for each day is the cumulative number of county residents 5 years of age and older documented to have received the final or booster dose of COVID-19 vaccine at least 14 days prior to that day. The unvaccinated population is the estimated county population 5 years of age and older minus the partially vaccinated, fully vaccinated, and boosted populations. For more information see the [COVID-19 Watch](#) and the [Summary of Cases by Vaccination Status](#). Prepared by the County of San Diego. Data through 11/26/2022, updated 12/1/2022.

COVID-19 Deaths by Vaccination Status



Death rate for unvaccinated residents is **2.5 times higher** than vaccinated residents



According to CDC, several factors likely affect crude case rates by vaccination and booster dose status, making interpretation of recent trends difficult. Limitations include higher prevalence of previous infection among the unvaccinated and un-boostered groups; difficulty in accounting for time since vaccination and waning protection; and possible differences in testing practices (such as at-home tests) and prevention behaviors by age and vaccination status.

*An unvaccinated hospitalization, or death is one that occurs in a person who has not received a COVID-19 vaccine. Partially vaccinated persons are excluded.

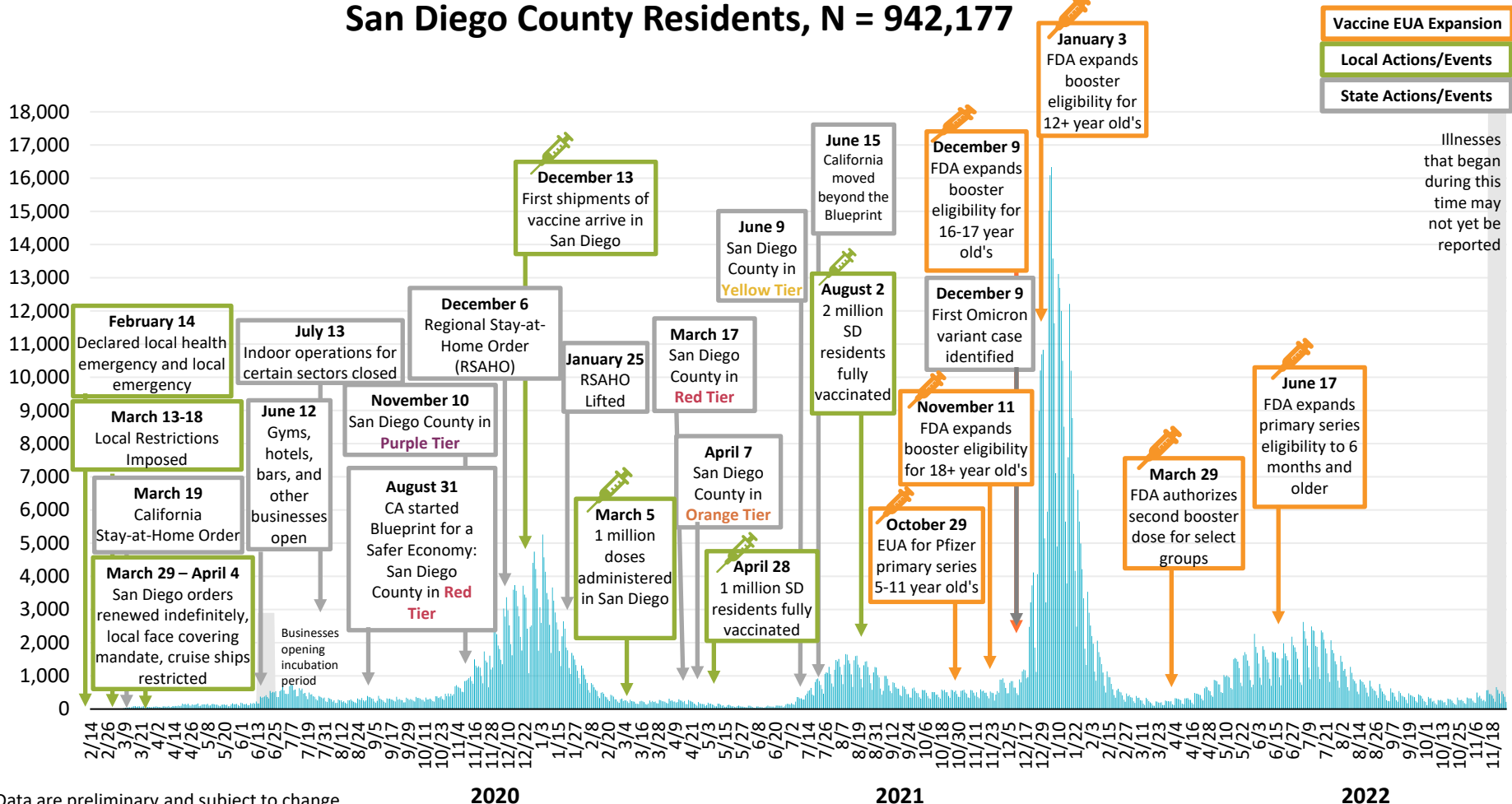
†A vaccinated hospitalization or death is one that occurs in a person who received at least two doses of a two-dose vaccine series (e.g., Pfizer, Moderna) or one dose of a one-dose series (e.g., Johnson & Johnson) at least 2 weeks before they tested positive for COVID-19. This includes persons who have received a monovalent or bivalent booster dose.

San Diego County Population from SANDAG 2019 Population Estimates (Prepared June 2020) for persons 5 years of age and older = 3,144,061. The vaccinated population for each day is the cumulative number of county residents 5 years of age and older documented to have received the final or booster dose of COVID-19 vaccine at least 14 days prior to that day. The unvaccinated population is the estimated county population 5 years of age and older minus the partially vaccinated, fully vaccinated, and boosted populations. For more information see the [COVID-19 Watch](#) and the [Summary of Cases by Vaccination Status](#). Prepared by the County of San Diego. Data through 11/26/2022, updated 12/1/2022.

COVID-19 Cases in San Diego County by Illness Onset Date



Confirmed COVID-19 Cases by Date of Episode Date* San Diego County Residents, N = 942,177



Data are preliminary and subject to change

*Episode date is the earliest date of illness onset date, specimen collection date, date of death, or date reported.

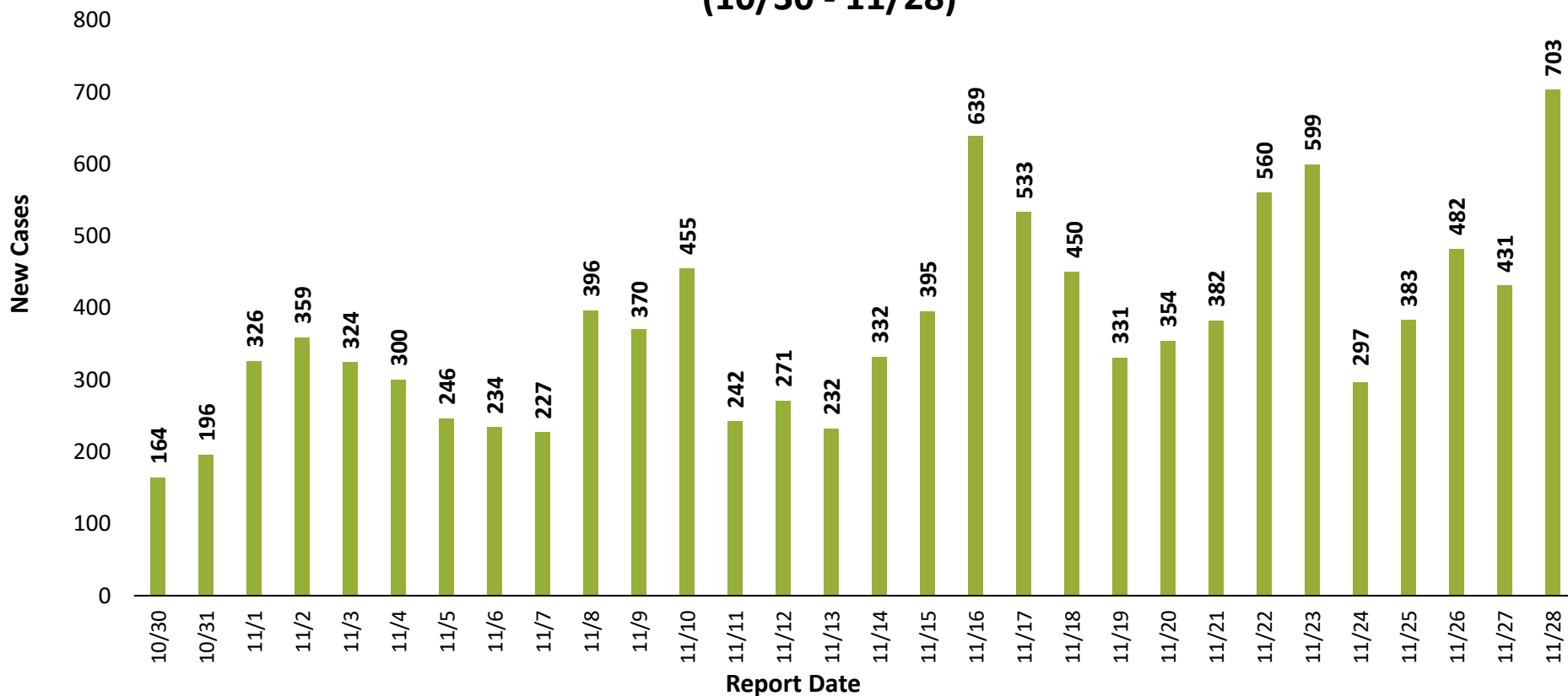
Abbreviations: EUA: emergency use authorization

Data available at: <https://sdgis-sandag.opendata.arcgis.com/> Prepared by County of San Diego, Emergency Operation Center, 12/1/2022.

COVID-19 Cases by Date Reported



COVID-19 Cases Among San Diego County Residents New Cases by Date Reported*, Last 30 Days (10/30 - 11/28)



Data are preliminary and subject to change. As of 10/3/2021, new case counts include cases that are presumed reinfections, defined as a positive test more than 90 days after the first positive test for a previous infection or an infection with a different lineage.

*Starting 7/1/2021, this is the actual number of new cases received the previous day. Some reported cases may later be removed from the total number of cumulative cases through routine quality assurance processes. The actual number of new cases reported and the change from the previous report may not be the same.



Metrics *Beyond the Blueprint*

Date Updated	Dates of Interest for Analyses	Average Daily Case Rate per 100,000*	Testing Positivity Percentage	Health Equity Testing Positivity Percentage	Testing Rate per 100,000
10/20/2022	10/2-10/8	7.3	4.7%	4.3%	185.5
10/27/2022	10/9-10/15	6.6	4.4%	4.1%	174.4
11/3/2022	10/16-10/22	6.5	4.3%	4.1%	170.2
11/10/2022	10/23-10/29	7.1	4.3%	4.4%	182.1
11/17/2022	10/30-11/5	8.0	4.6%	5.1%	194.7
11/23/2022	11/6-11/12	9.5	5.5%	6.1%	189.9
12/1/2022	11/13-11/19	12.7	6.7%	7.1%	205.7

Data are preliminary and subject to change.

*Previously referred to as the unadjusted case rate under the Blueprint for a Safer Economy Tier Framework.

All metrics calculated using local data using a 7-day daily average with a 7-day lag; case rate uses episode date and testing metrics use specimen collection date.

California Department of Finance 2020 Projection Population Estimate for San Diego County is 3,370,418.

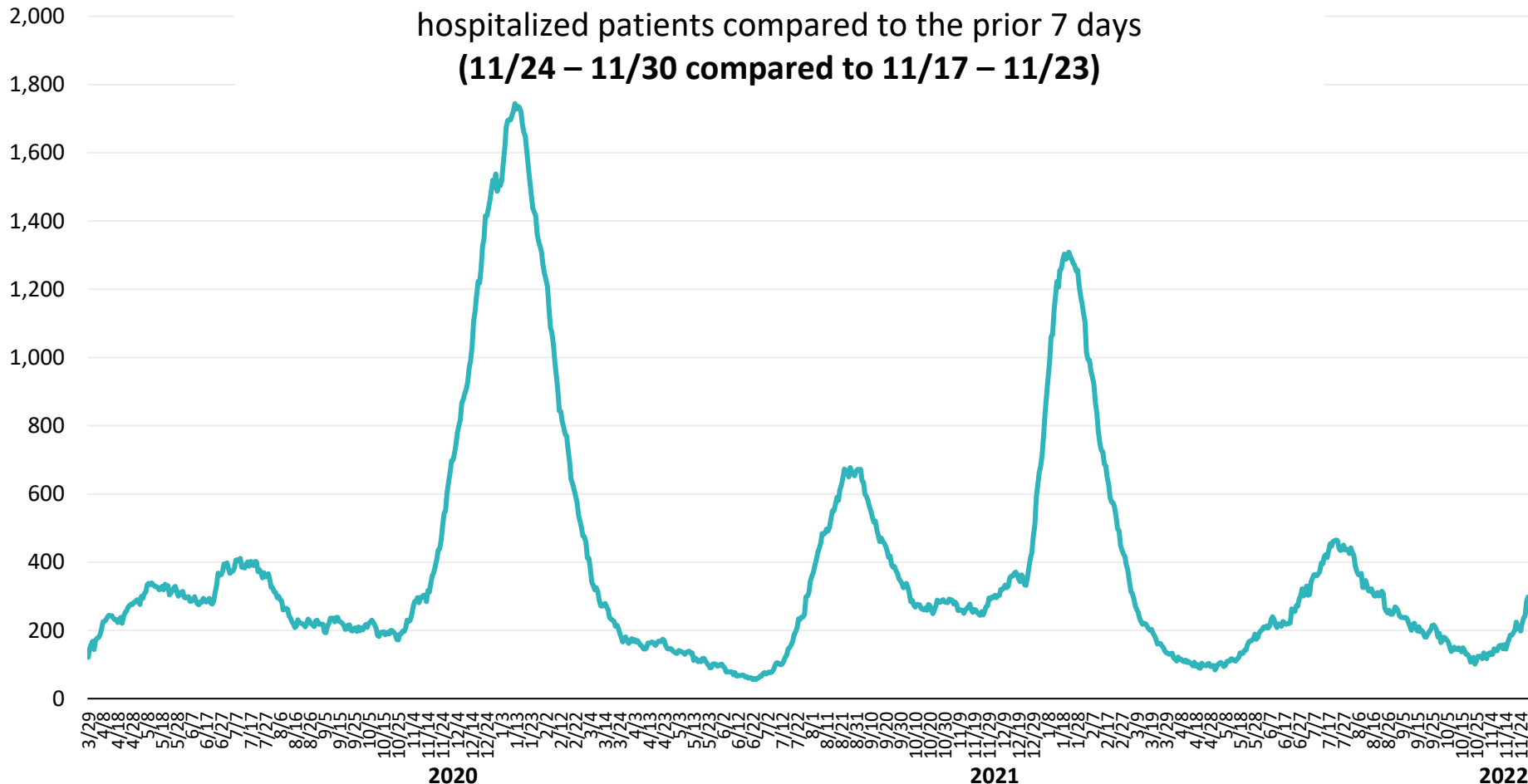
Prepared by County of San Diego, Emergency Operations Center, 12/1/2022.

COVID-19 Confirmed Hospital Census



COVID-19 Confirmed Hospitalized Patients

26% increase in the 7-day average daily number of confirmed COVID-19 hospitalized patients compared to the prior 7 days
(11/24 – 11/30 compared to 11/17 – 11/23)

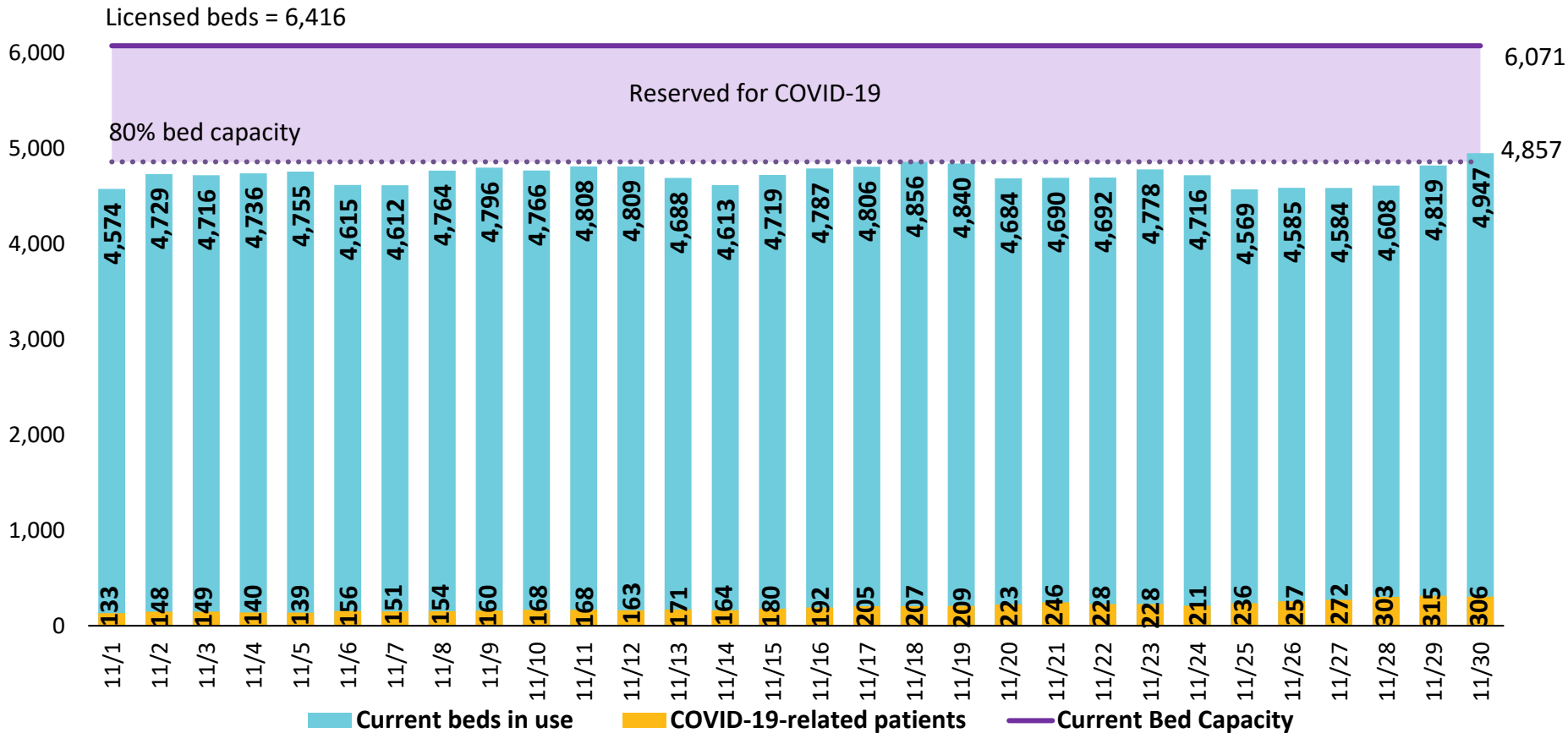


Data are preliminary and subject to change; data through 7/30 from State of California Health and Human Services Open Data; data starting 7/31 from hospitals reporting directly to County of San Diego; census for non-federal hospitals; includes both San Diego County residents and non-residents; *Starting 10/31, COVID hospital census numbers will show an increase due to a change in the hospital census definition. Previously, COVID-19 hospitalized patients stopped being counted as a COVID-19 hospitalized patient after 8 days. Now, they continue to be counted as a COVID-19 hospitalized patient for their entire stay in the hospital. Prepared by County of San Diego, Emergency Operations Center, 12/1/2022

COVID-19 Daily Hospital Bed Census



COVID-19 Daily Hospital Census, San Diego County Includes Cases and Suspect COVID-19 Patients

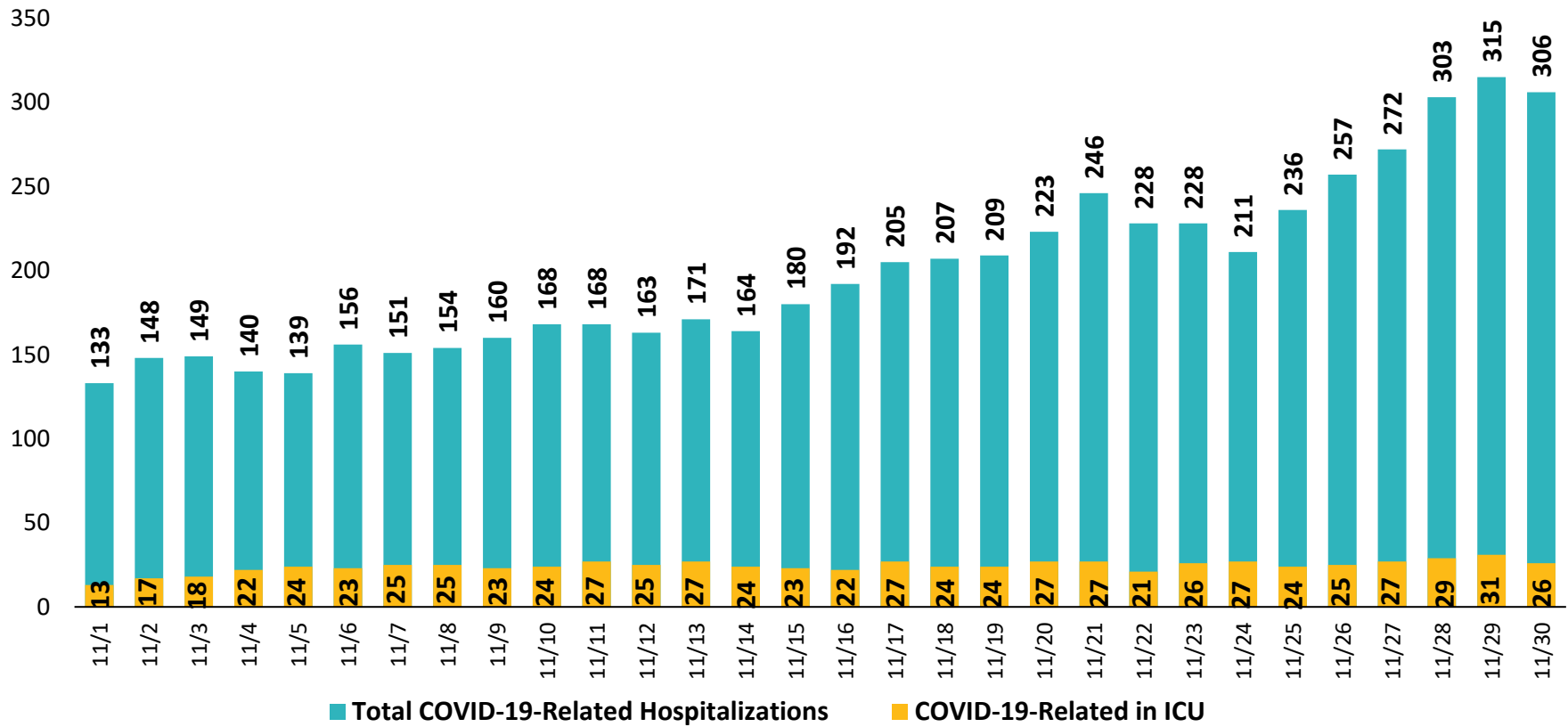


Data are preliminary and subject to change; data from hospitals reporting directly to the County of San Diego; includes cases and suspect patients for non-federal hospitals for San Diego County residents and non-residents; current bed capacity for non-federal hospitals in San Diego County. Prepared by County of San Diego, Emergency Operations Center, 12/1/2022

COVID-19 Hospital Census



COVID-19 Hospital Daily Census in San Diego County Includes Cases and Suspect COVID-19 Patients

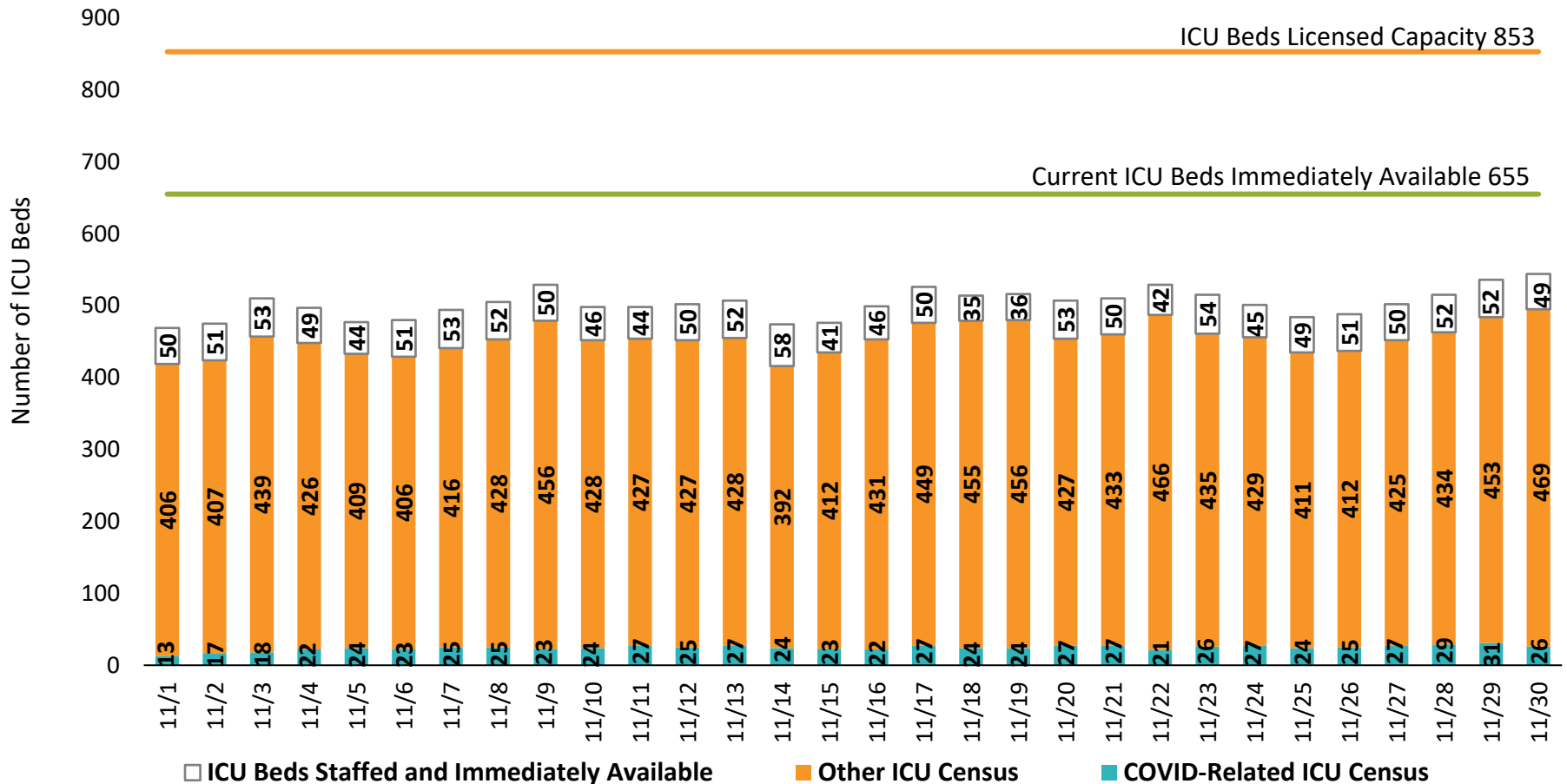


Data are preliminary and subject to change; data from hospitals reporting directly to County of San Diego; census for San Diego County non-federal hospitals; includes cases and suspect COVID-19 patients for San Diego County residents and non-residents. Prepared by County of San Diego, Emergency Operations Center, 12/1/2022

ICU Bed Occupancy, Capacity, and Availability



COVID-19 Daily ICU Bed Occupancy and Capacity, San Diego County Includes Cases and Suspect COVID-19 Patients

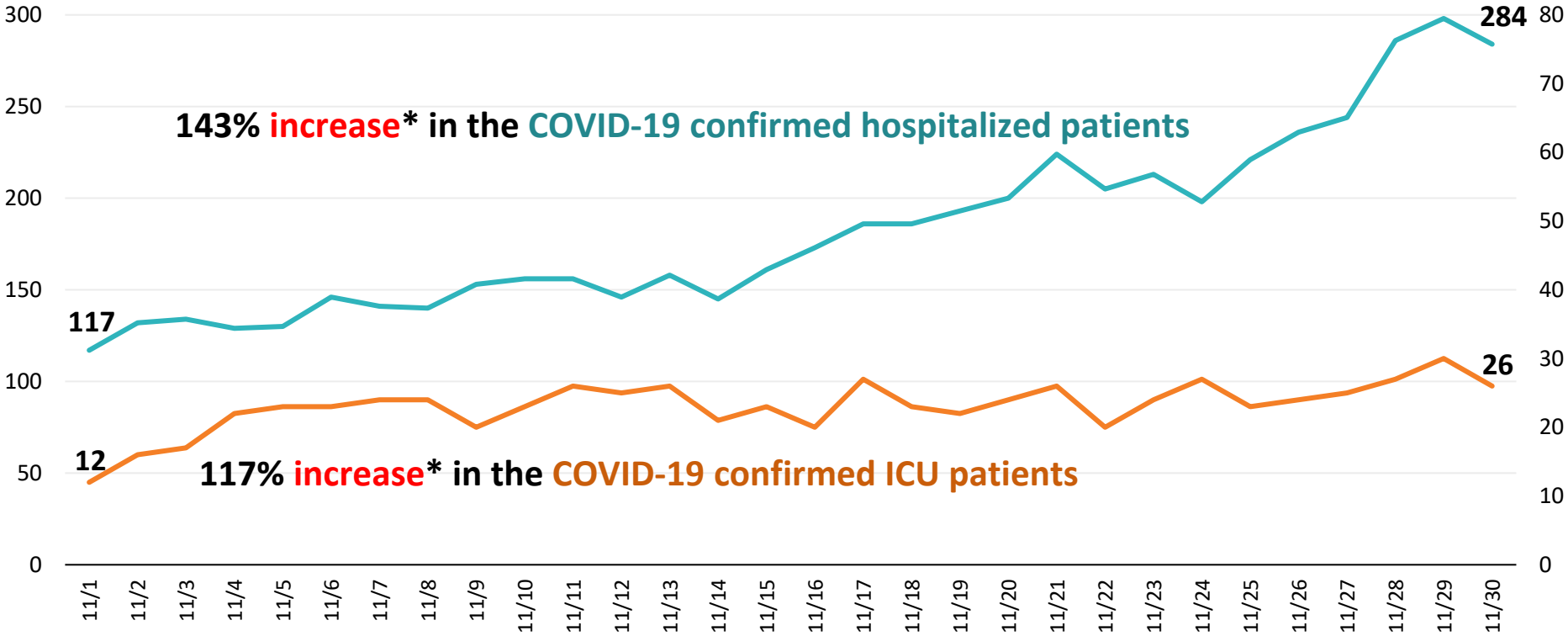


Data are preliminary and subject to change; data from hospitals reporting directly to County of San Diego; includes cases and suspect patients for San Diego County residents and non-residents; current ICU bed capacity for beds on site; all data for non-federal hospitals in San Diego County. Prepared by County of San Diego, Emergency Operations Center, 12/1/2022

COVID-19 Hospitalization Census



COVID-19 Confirmed Hospitalized and ICU Patients, 30 Days (11/1 – 11/30)



Data are preliminary and subject to change; data from hospitals reporting directly to County of San Diego; census for non-federal hospitals; includes both San Diego County residents and non-residents.

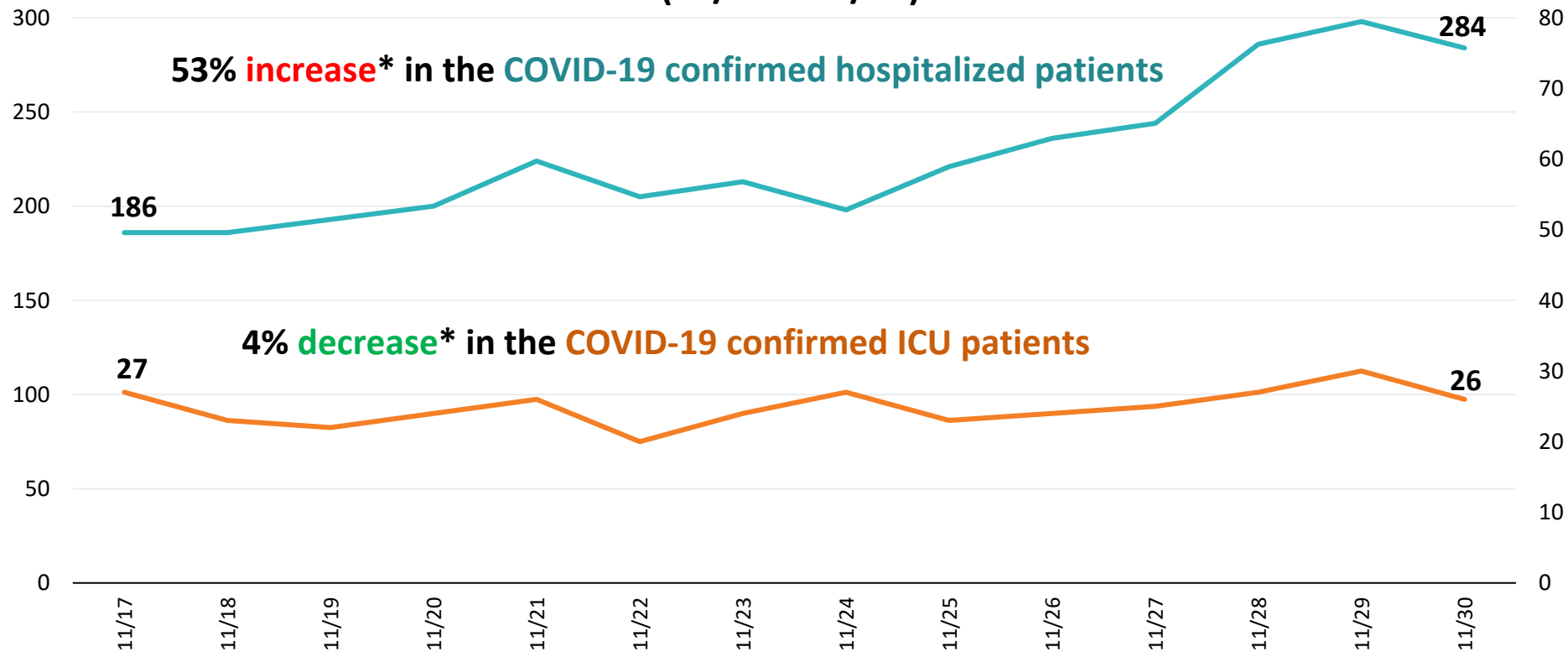
*Percent change compares absolute number of hospitalizations and ICU across a 30-day span.

Prepared by County of San Diego, Emergency Operations Center, 12/1/2022

COVID-19 Hospitalization Census



COVID-19 Confirmed Hospitalized and ICU Patients 14 Days (11/17 – 11/30)



Data are preliminary and subject to change; data from hospitals reporting directly to County of San Diego; census for non-federal hospitals; includes both San Diego County residents and non-residents.

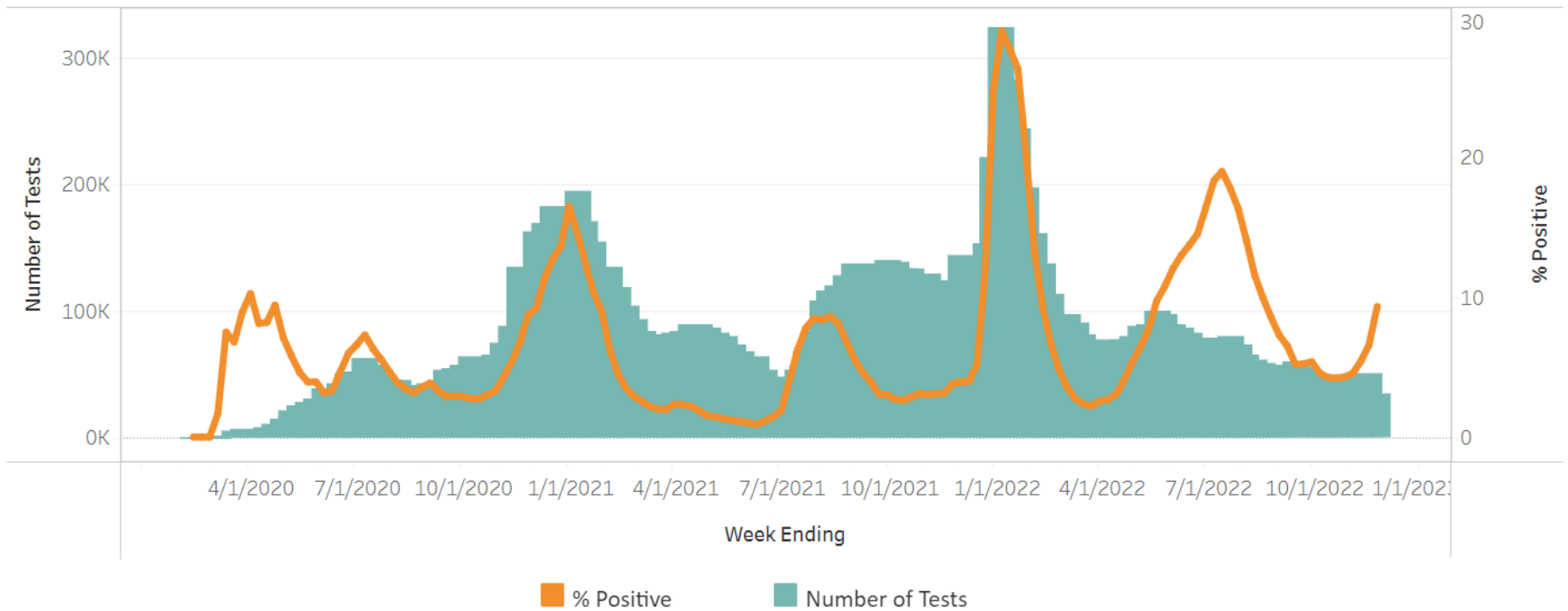
*Percent change compares absolute number of hospitalizations and ICU across a 14-day span.

Prepared by County of San Diego, Emergency Operations Center, 12/1/2022

COVID-19 Tests by Date Reported, % Positive



COVID-19 Testing Volume and Positivity by Week of Specimen Collection,
San Diego County



Data are preliminary and subject to change.

Total molecular tests since February 14, 2020, including non-residents who tested in San Diego County. Molecular tests are polymerase chain reaction (PCR) and other nucleic acid amplification tests (NAAT). Graph includes molecular tests performed by COSD Public Health Laboratory, hospital, and commercial laboratories and reported via Electronic Laboratory Reporting (ELR) and line lists, and excludes invalid, indeterminate, and unsatisfactory results.

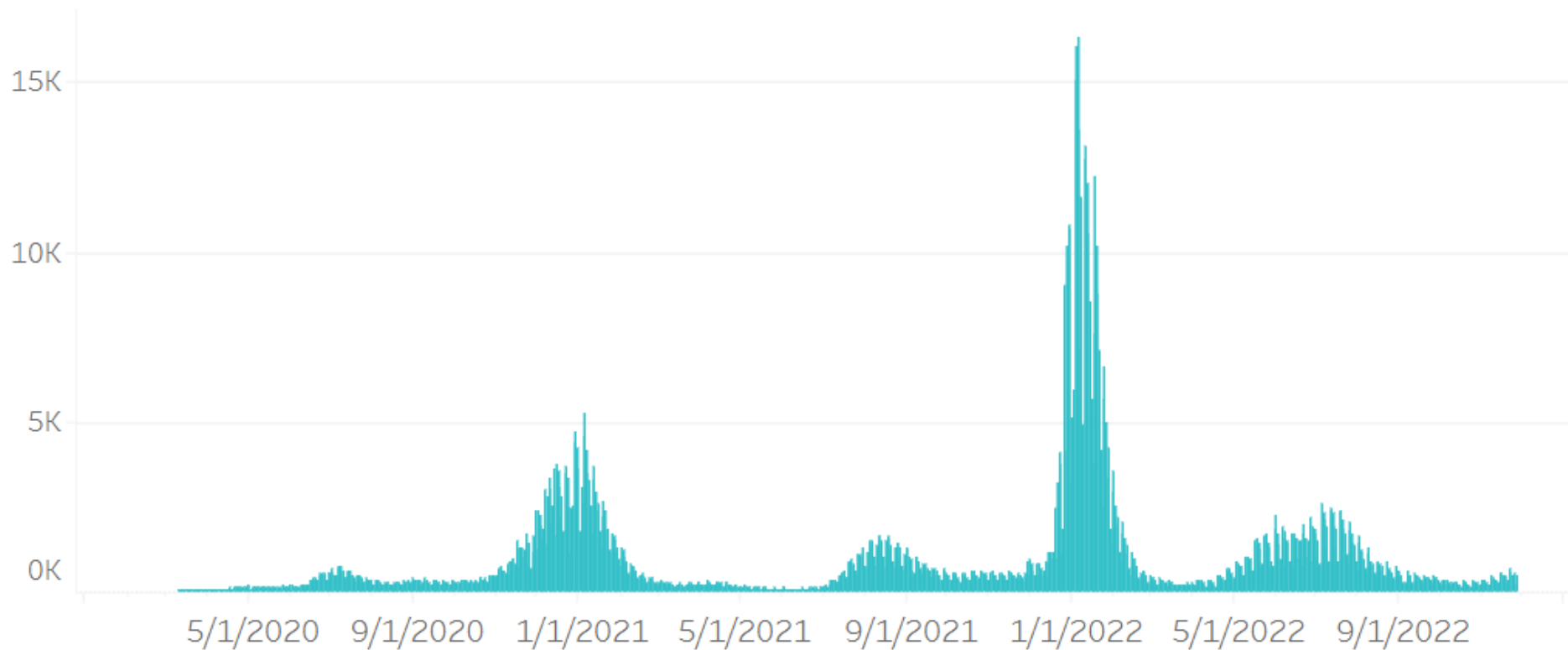
Data Through 11/26/2022, Updated 12/1/2022.

[COVID 19 Laboratory Test Positivity \(sandiegocounty.gov\)](https://www.sandiegocounty.gov/covid-19-laboratory-test-positivity)

COVID-19 Cases by Episode Date



COVID-19 Confirmed Cases by Episode Date** - Daily Counts



Data are preliminary and subject to change.

**Episode date is the earliest of the following available dates: symptom onset date, specimen collection date, date of death, date reported

Data for the most recent week may be incomplete

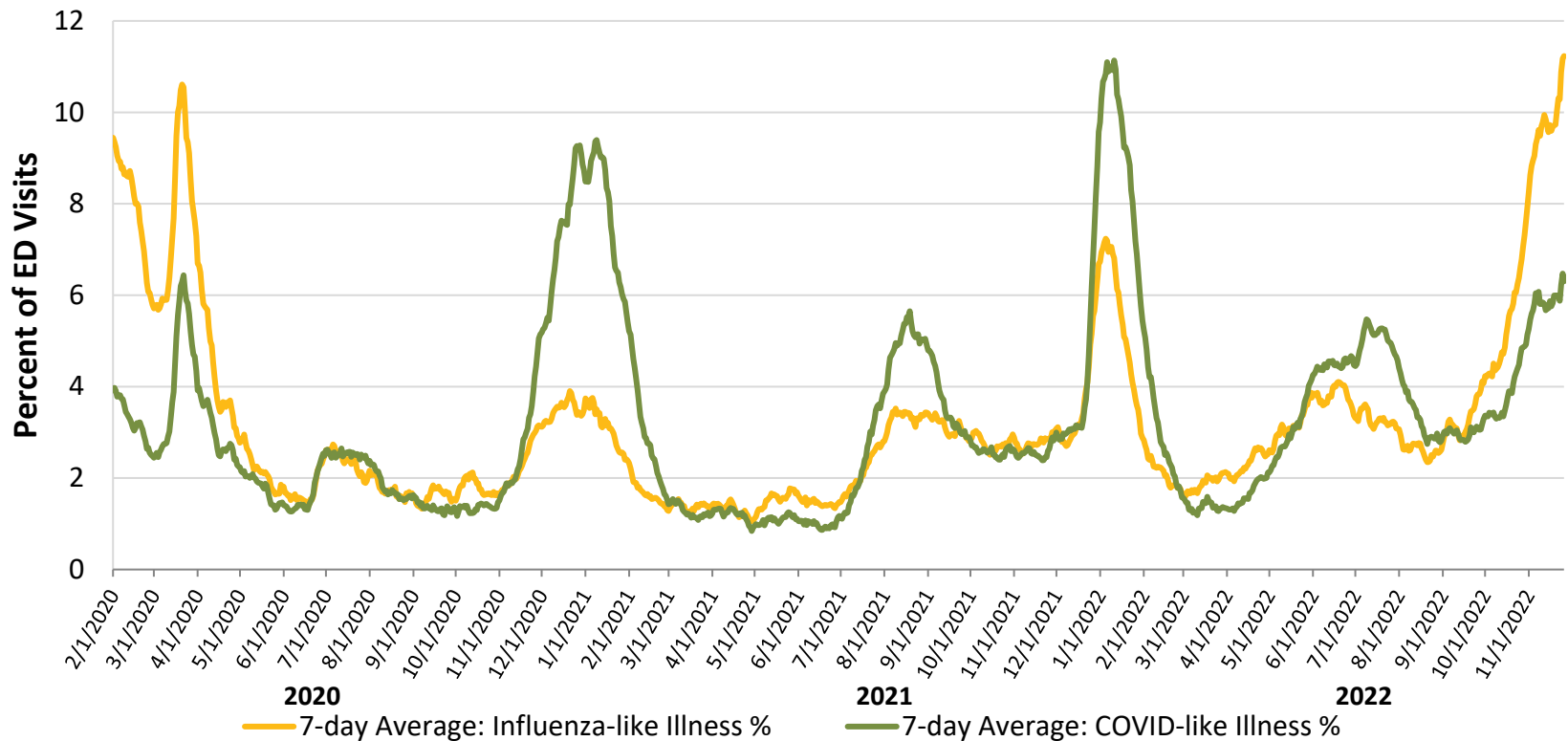
Data through 11/26/2022. Updated 12/1/2022.

[COVID-19 Cases, Hospitalizations, and Deaths by Demographics \(sandiegocounty.gov\)](https://www.sandiegocounty.gov/health/COVID-19-Cases-Hospitalizations-and-Deaths-by-Demographics)

Emergency Department Data



Percent of Emergency Department Visit Chief Complaints for Influenza-like Illness (ILI) or COVID-like Illness (CLI) by Day, San Diego County



Categories are not mutually exclusive. COVID-like Illness includes fever and cough, shortness of breath, or difficulty breathing OR coronavirus diagnostic codes. 16 San Diego County hospitals are included.

Prepared by County of San Diego, Health and Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch, 11/28/2022