



**TRIBAL ENERGY &
CLIMATE COLLABORATIVE**



**TRIBAL CLIMATE
HEALTH PROJECT**

**Tribal Energy & Climate
Collaborative eXchange (TECC-X)
May 26, 2026**

BEGIN MEETING RECORDING



Today's Agenda

Meeting Purpose:

To learn, share, and discuss important climate- and energy-related opportunities and issues affecting California Tribes

Welcome and Featured Opportunities

Opportunity Roundtable

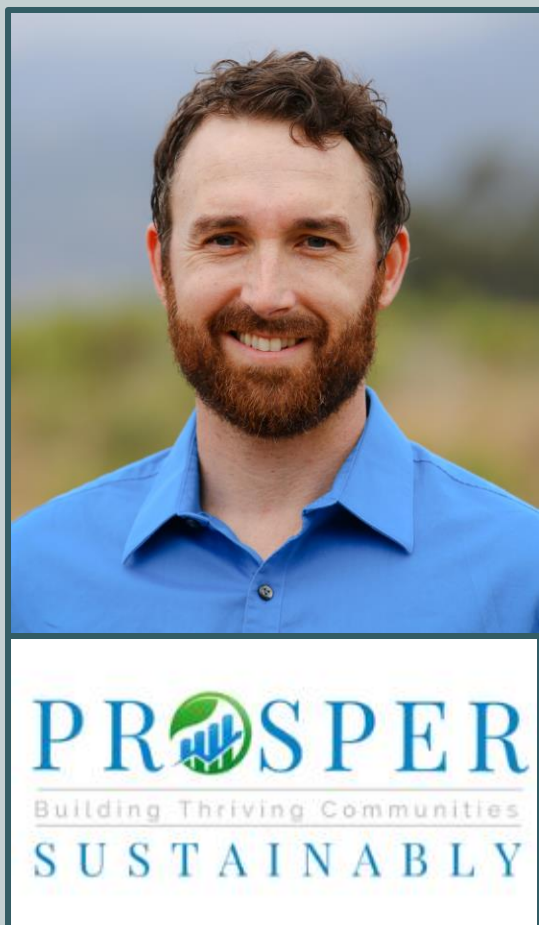
Breakout!

- TECC - #1: California Tribes and Wholesale Electricity Markets
- TCHP - #2: Tribal Climate Adaptation through Extreme Heat Planning Part 2

Peer-Sharing and Discussion, Closing

CPUC/TECC Co-hosted Bonus Session (11am-noon) -

- Regional Organization for Western Energy (ROWE) Formation and Tribal Engagement



Host Introductions

Josh Simmons

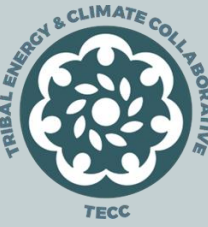
Co-Director
Tribal Energy & Climate Collaborative (TECC)

President & Principal Consultant,
Prosper Sustainably LLC

jsimmons@prospersustainably.com

www.prospersustainably.com

ATTENDEES: Please introduce yourself in the chat (Name and Tribe/Organization)



Host Introductions



Angie Hacker

CEO & Principal Consultant

Prosper Sustainably

(805) 234-5131

ahacker@prospersustainably.com

www.prospersustainably.com



Dr. Shasta Gaughen

Executive Director

Pala Environmental Department

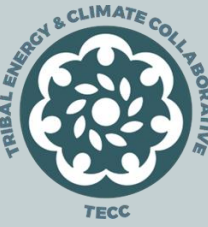
Pala Band of Mission Indians

(760) 891-3515

sgaughen@palatribe.com

ped.palatribe.com

ATTENDEES: Please introduce yourself in the chat (Name and Tribe/Organization)



Tribal Energy & Climate Collaborative (TECC)

Capacity Building & Technical Assistance (TA)

Energy and climate TA, grant writing, training, capacity building
(Strategic Growth Council
Regional Climate Collaborative)

Economic and Workforce Development

Planning, due diligence, and support
to accelerate Tribally-led innovative
clean energy and climate
technologies and ventures

Policy & Regulatory Advocacy

Education, training, and
engagement in climate and energy
policies, programs, and regulatory
proceedings

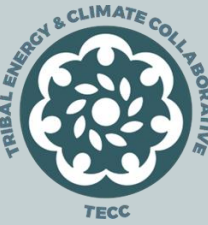


Identify and advance climate, energy, and related economic and workforce development goals of SCTCA Tribes



TRIBAL CLIMATE
HEALTH PROJECT

<https://tribalclimatehealth.org>



About the Tribal Climate Health Project

Mission

We develop learning resources to help Tribes and Tribal-serving professionals safeguard their communities from the health impacts of climate change.

Our mission summary

9 years

Providing capacity-building support to US Tribes



94

Trainings and presentations



9,685+

Views of recorded trainings

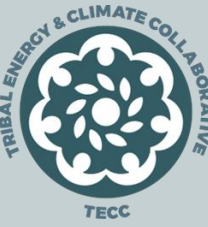


About

In 2016, the [Pala Band of Mission Indians](#) was awarded a grant from the U.S. EPA under a solicitation called "Building the Capacity of Tribes to Address the Health Impacts of Climate Change." The grant funded the development and distribution of online trainings, a resource clearinghouse, and other capacity-building tools that help tribal health and environmental professionals across the nation prepare their communities for the public health impacts of climate change. Pala has since been awarded funding from the US Bureau of Indian Affairs (BIA) Tribal Resilience Program and the National Indian Health Board, among others, to expand upon this work..

Pala selected [Prosper Sustainably](#), a consulting firm with extensive Tribal and climate governance experience, to help develop and implement the Tribal Climate Health Project (TCHP). This includes development of curriculum, a [resource clearinghouse](#), and [tools and templates](#) that can assist Tribes in assessing their climate and health vulnerabilities and implementing adaptation strategies. Resources offered by the TCHP include this website, [online and in-person trainings](#), and national outreach efforts. The program has provided training to numerous tribal serving professionals. Trainees are invited to participate in continuous engagement through our ongoing learning community.

For additional information about this project, please contact [Shasta Gaughen](#) (Pala Environmental Director) or [Angie Hacker](#) (Prosper Sustainably).



New Events Calendar!

socaltecc.org/events/

Check out TECC's new Events Calendar featuring webinars, trainings, conferences, and other opportunities dedicated to advancing Tribal climate, energy, and workforce development efforts!

Events Calendar – Updated regularly, this page is designed to provide Tribal leaders, staff, and partners with upcoming opportunities relevant to their work and communities:

- Discover virtual and in-person climate and energy events
- Find event details quickly and easily
- Stay up to date by subscribing to the Calendar!

Event Submission Request Form – Have an event for Tribal audiences? Share it with us!

 **Upcoming Events**

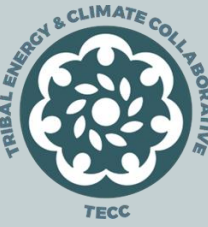
Climate, Energy & Workforce Development

Welcome to TECC's Events page, featuring webinars, trainings, conferences, and other opportunities dedicated to advancing Tribal climate, energy, and workforce development efforts. If you are hosting an event for Tribal audiences and would like to see it featured on this page, please fill out this [Event Submission Request Form](#).

Find Events List Month Day

< > This Month May 2026 ▾

M	T	W	T	F	S	S
27	28	29	30	1	2	3
National Tribal Forum on Air Quality	Tribal Engagement in Western Energy Markets & T...	2:00 pm - 3:00 pm Tribal Stewardship Economy Webinar Series: Navigating Issues for Tribal Stewardship	11:00 am Ecological Drought: Integrating Ecological Drought Considerations into Restoration Efforts and Natural Resource Management 2:00 pm - 3:00 pm Tribal Stewardship Economy Webinar Series: Building the Tribal Workforce for Tribal Stewardship	14th Annual Living Breath of welsab?atx' Indigeno...	11:00 am - 12:00 pm Tribal Stewardship Economy Webinar Series: Building the Restoration Economy with Tribal Stewardship	
Save the Date: Fourth...	8:30 am - 5:00 pm San Joaquin Valley Catalyst Convening 10:00 am - 11:00 am Tribal Energy & Climate Collaborative eXchange (TECC-x) April 2026 Meeting 1:00 pm - 2:00 pm Tribal Stewardship Economy Webinar Series: Opportunities in Conservation Banking for Tribal Stewardship					



New Statewide Offerings Meetings Archive!

Check out TECC's new Statewide Offerings Meetings archive where we house all our TECC-X and CPUC Training Recordings!

STATEWIDE OFFERINGS ARCHIVE

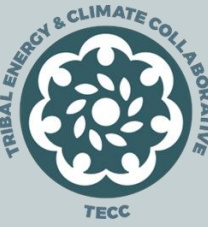
Check out the Statewide Offerings Archive for recordings, presentation slides, and resources shared during past meetings.



Statewide Offerings – TECC provides trainings, resources, and conducts policy activities that may benefit all California Native American Tribes.

- Tribal Energy & Climate Collaborative eXchange (TECC-X)
- Advancing Tribes' Interests at the California Public Utilities Commission

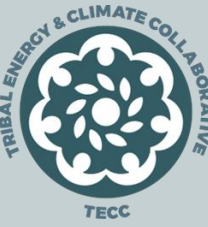
Statewide Offerings Meetings Archive – Check out the Statewide Offerings Archive for recordings, presentation slides, and resources shared during past meetings.



Opportunity Roundtable

This is an opportunity to share timely funding and other assistance opportunities

Please put any grants, incentives, events, and other capacity building opportunities for California Native American Tribes in the chat



Featured Funding Opportunities

Transformative Climate Communities (TCC) Grants Round 6 – September 30

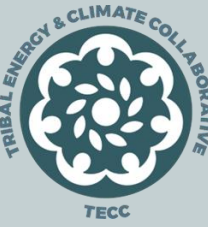
Strategic Growth Council

- Implementation Pre-Proposals due June 30
- Applications Due September 30
- Community-led development and infrastructure projects that achieve major environmental, health, and economic benefits in disadvantaged communities
- Awards from \$300,000 to \$5 million
- California Native American Tribes eligible

Extreme Heat and Community Resilience Funding Round 2 – Opens in Summer

California Governor's Office of Land Use and Climate Innovation

- Community services and physical improvements to protect Californians vulnerable to extreme heat
- Awards from \$600,000 to \$4 million
- Applicants can begin preparing submission materials now



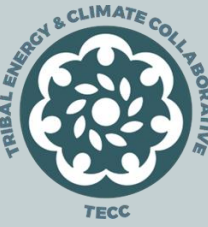
Featured Funding Opportunities

Community Resilience Centers (CRC) Round 2 Grants – Opens in Summer*

Strategic Growth Council

- NOFA coming May 29
- Applications will be due in the fall
- Planning Grants \$100,000 to \$500,000
- Implementation Grants \$1 million to \$10 million
- New construction and upgrades of neighborhood-level resilience centers that provide shelter and resources during climate and other emergencies
- California Native American Tribes and Tribally-owned nonprofits eligible

****TECC grant writing resources available***



Featured Funding Opportunities

Energy and Mineral Development Program (EMDP) Grants 2026 – June 18*

Department of the Interior Bureau of Indian Affairs (BIA) Division of Energy and Mineral Development (DEMD)

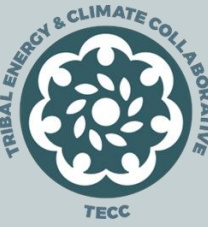
- Preservation planning, interpretation, public engagement, and rehabilitation projects on Native land
- Awards from \$10,000 to \$2.5 million
- Native American Tribes and Tribal Energy Development Organizations eligible

Clean Transportation Program Hydrogen Infrastructure Project Opportunity (HIPO) Grants – June 19

California Energy Commission (CEC)

- Funding for hydrogen refueling infrastructure for on-road fuel cell electric vehicles
- Awards \$2 million to \$15 million
- California Native American Tribes and California Tribal Organizations eligible

****TECC grant writing resources available***



Featured Funding Opportunities

Active Transportation Program (ATP) Cycle 8 Grants – June 22

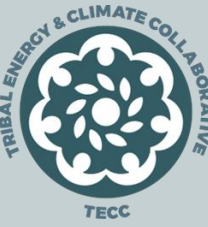
California Energy Commission (CEC)

- Funding for active transportation projects including bikeways, walkways, trails, trail connectivity, and rail-to-trail conversions
- Awards from \$3.5 million to \$10 million
- Tribal natural resources or public land agencies and Tribal governments eligible

FY 2025-26 Wildfire Prevention Grants – 3pm July 8

CAL FIRE

- Projects in and near fire threatened communities: Hazardous Fuels Reduction, Wildfire Prevention Planning, and Wildfire Prevention Education
- Awards up to \$950,000
- Native American Tribes eligible



Featured Funding Opportunities

Collaborative Capacity Grants – July 13 for Tribal Applicants

National Forest Foundation

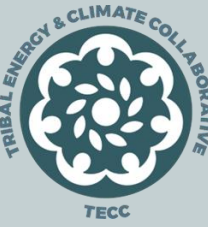
- Funds collaborative activities that support wildfire resilience, recreation opportunities, land and watershed restoration, and rural economies
- Awards \$20,000 to \$50,000
- Tribal governments, Tribal organizations, nonprofit organizations, local government entities, and colleges and universities eligible

Building Resilient Infrastructure and Communities (BRIC) Grants – July 23*

U.S. Federal Emergency Management Agency (FEMA)

- Infrastructure and construction projects that deliver immediate, measurable risk reduction to communities vulnerable to natural hazards
- \$50 million Tribal Set-Aside subtotal, \$25 million Tribal Building Code Plus-Up subtotal
- Native American Tribes eligible

****TECC grant writing resources available***



Featured Funding Opportunities

Unleashing Tribal Energy Development Grants – July 24*

DOE Office of Indian Energy

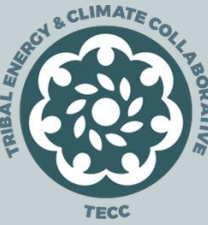
- Tribal community energy project pre-development and deployment, and large-scale energy project planning
- Maximum \$1.5 million to \$7.5 million
- Federally recognized Tribes, Tribal and intertribal organizations, TEDOs, Tribal Colleges and Universities eligible

WaterSMART Drought Response Grants – July 28

U.S. Bureau of Reclamation

- Infrastructure improvements for water storage and distribution, water source diversification, decision-making tools for water management, and planning
- Awards from \$500,000 to \$1.5 million
- Tribes eligible independently or in partnership with nonprofit conservation organizations

****TECC grant writing resources available***



Featured Funding Opportunities

Tribal Housing Pre-Development Fund Grants – August 11*

Strategic Growth Council

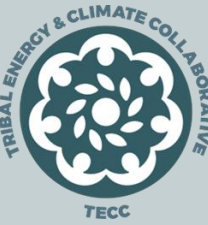
- Planning, infrastructure, construction, site preparation, and other pre-development activities related to affordable housing development
- Awards up to \$3 million
- Native American Tribes eligible

Tribal Capacity Building Program Round 2 – August 11*

Strategic Growth Council

- Funds help develop long-term capacity to secure funding and implement Tribal-led climate and housing projects
- Awards up to \$5 million
- Native American Tribes and Tribally Designated Housing Entities (TDHE) eligible

****TECC grant writing resources available***



Featured Funding Opportunities

Electric Vehicle Hub, Outreach, Messaging, and Equipment (EV HOME) Grants – August 18

California Energy Commission (CEC)

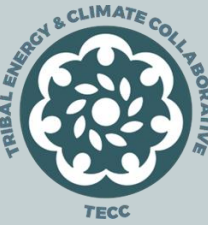
- Grant funding for projects that will accelerate electric vehicle (EV) adoption
- Awards \$500,000 to \$5 million
- Funding of up to \$10 million available to support second phase of work
- CBOs eligible; California Tribes and Tribal Organizations considered CBOs

San Diego's Clean Cars 4 All Incentives – Available

San Diego County Air Pollution Control District

- Incentives to purchase or lease a Plug-In Hybrid Electric Vehicle or Battery Electric Vehicle, and install a home EV charger
- Must "turn in" an operational gas vehicle 2009 or older
- Available to income-qualified residents in San Diego County

Other funding opportunities? Please share in the chat!



Forecast Funding

CAL FIRE's Tribal Wildfire Resilience Grants

Expected Early 2026

CDFW's Natural Community Conservation Planning Local Assistance Grants

Expected 2026

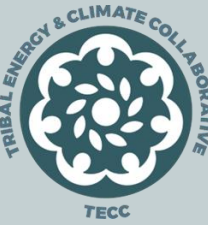
TechWerx's Building Access to Tribal Energy Resilience (BAxTER) Funding

Expected Soon

CEC's Cost-Share for Federal Geothermal Energy Funding Opportunities – Geothermal Grants and Loans

Expected June – July

**TECC grant writing resources available*



Featured Events

Tribal Housing and Capacity Building Initiative: Application Workshop

Strategic Growth Council

May 28, 10 am – 12 pm Virtual

Tribal Community Workshop: Zero-Emission Bus Workforce Development Roadmap

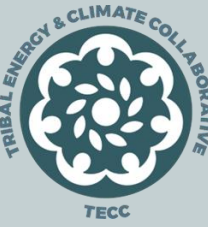
California Air Resources Board (CARB) and CALSTART

May 28, 10 am – 12 pm Virtual

Tribal Energy Efficiency Audit, Resource Rendezvous

Tribal Energy & Climate Collaborative (TECC) and the Institute for Tribal Environmental Professionals (ITEP)

June 3 – 4 at Pala Casino Spa Resort in Pala, CA



Featured Events

Tribal Energy Workshop

County of San Diego's Office of Sustainability and Environmental Justice

June 9, 12 – 1 pm Virtual

Collaborative Capacity Program Q&A for Tribal Applications

National Forest Foundation (NFF)

June 16, 12 pm Virtual

17th Annual California Climate and Energy Collaborative (CCEC) Forum

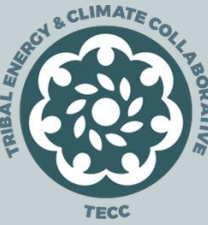
California Climate and Energy Collaborative (CCEC)

June 24 – 25 at the Los Angeles Hilton in Universal City, CA

2026 National Tribal Health Conference (NTHC)

National Indian Health Board (NIHB)

August 17 – 21 at the Sheraton Grand in Phoenix, AZ



Featured Input Opportunity

Senate Bill 54: Plastic Pollution Mitigation Fund Priorities – Survey Due June 26

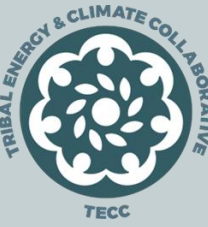
CalEPA, CNRA, and SGC

- Help inform Plastic Pollution Mitigation Fund (PPMF) design and allocation
- Opportunity to share Tribal community priorities
- Funds will be for mitigating plastic pollution impacts on Tribes, communities, and the environment

Tribal Energy Workshop – June 9, 12–1 pm

County of San Diego's Office of Sustainability and Environmental Justice

- Provide input on the County's Energy Access, Resilience, and Capacity (Energy ARC) study
- To create a consistent touchpoint for informal engagement on energy-related items between Tribes, County staff, and Community Choice Aggregators
- Updates on the Energy ARC study; La Jolla Band of Luiseño Indians solar program outcomes; and San Diego Community Power Tribal program opportunities



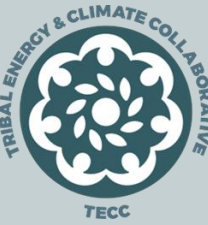
TECC-led Tribal Programs



TECC is partnering with SoCalREN and SDREN to increase Tribal enrollment and participation in REN programming!

- **Focus Areas:**
 - Identify and install energy efficiency measures for government, commercial, and residential buildings
 - Receive support with resiliency planning needs
- **Eligibility:** The facility must be served by Southern California Edison (SCE), SoCalGas, or San Diego Gas & Electric (SDG&E).

Reach out to coordinator@socaltecc.org if your Tribal nation is interested in learning more about the benefits your Tribe may be able to receive from these programs.



TECC-supported Programs



Access Clean California



Focus Area:

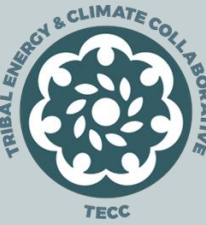
Connecting income-eligible members of California Native American Tribes to clean transportation rebates and savings programs.

Eligibility:

Check your eligibility for rebate/incentive programs at accesscleanca.org/ps.

The Tribal Energy and Climate Collaborative and Prosper Sustainably will be providing guided support with enrollment and applications.

Contact AccessCleanCA@SoCalTECC.org to learn more!



Let's Breakout!

Tribal Energy & Climate Collaborative (TECC)

Featured Topic: California Tribes and Wholesale Electricity Markets

Agenda:

- Introductions
- Transmission 101
- Wholesale Energy Markets 101
- CAISO Electricity Market Overview

Join Us in Breakout Room #1!

Tribal Climate Health Project (TCHP)

Training: Climate Resilience in a changing world

Featured Topic: Tribal Climate Adaptation through Extreme Heat Planning Part 2

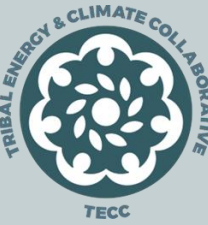
Agenda:

- Introductions
- Exposures, Impacts, and Strategies Inventory (EISI) for Extreme Heat Tool Demonstration
- Audience Q&A

Join Us in Breakout Room #2!



Stay for an additional Bonus Session!



Co-hosted by Tribal Energy & Climate Collaborative (TECC) and the California Public Utilities Commission (CPUC)

Featured Topic: Regional Organization for Western Energy (ROWE) Formation and Tribal Engagement

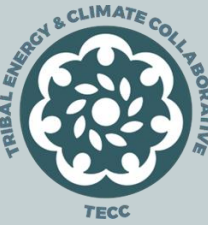
11:00am – 12:00pm

Agenda

- Western Energy Imbalance Market (WEIM) and Extended Day Ahead Market (EDAM)
- The West-wide Governance Pathways Initiative
- Regional Organization for Western Energy (ROWE) Update
- Audience Q&A and Discussion



Stay in the main room!



Let's Breakout!

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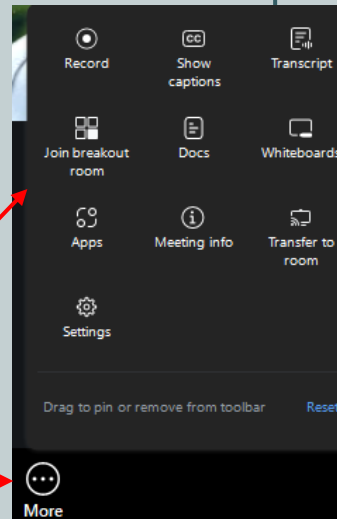
Training: Climate Resilience in a changing world

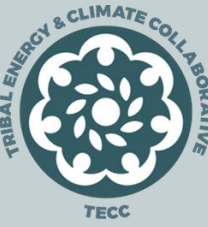
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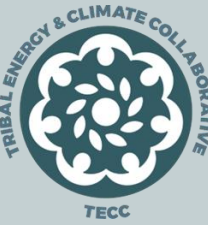


California Tribes and Wholesale Electricity Markets

TECC-X Breakout Session



Speaker Introductions



Darcie Houck | Commissioner |
California Public Utilities Commission



Michelle Wilson | Program and Project
Supervisor | California Public Utilities Commission



Simon Hurd | FERC Cost Recovery Section |
California Public Utilities Commission



Kaj Peterson | Energy Systems Engineer |
California Public Utilities Commission



Nadene Hubbard | Tribal Engagement
Fellow | Western Resource Advocates



Sydney Walter | Regional Markets Policy
Advisor | Western Resource Advocates



Shannon O'Rourke | California Regulatory
Affairs Director | California Independent System
Operator

Please add your questions or comments to the chat
or raise your hand after presentations

CPUC Role in Transmission Planning & Costs

Tribal Energy & Climate Collaborative eXchange

May 26, 2026

Kaj Peterson, Senior Utilities Engineer

Simon Hurd, Program & Project Supervisor

Michelle Wilson, Program & Project Supervisor



California Public
Utilities Commission



CALIFORNIA

Public Utilities Commission

- [What is the California Public Utilities Commission?](#) The CPUC regulates services and utilities, protects consumers, safeguards the environment, and assures Californians' access to safe and reliable utility infrastructure and services.
- We empower California through access to safe, clean, and affordable utility services and infrastructure.
- CPUC, CEC and CAISO work closely to implement their unique missions in coordinated manner.

What Industries Does the CPUC Regulate?



Energy – Electricity and Natural Gas

The CPUC regulates investor-owned electric and natural gas utilities. The CPUC ensures the reliability and safety of electric and natural gas systems, and works to advance renewable energy and climate goals.



Transportation – Rail and Passenger Carrier Safety

The CPUC oversees the safety of railroads and rail transit systems, for-hire passenger carriers (limousines, airport shuttles, charter and scheduled bus operators) and Transportation Network Companies (Lyft, Uber).



Telecommunications

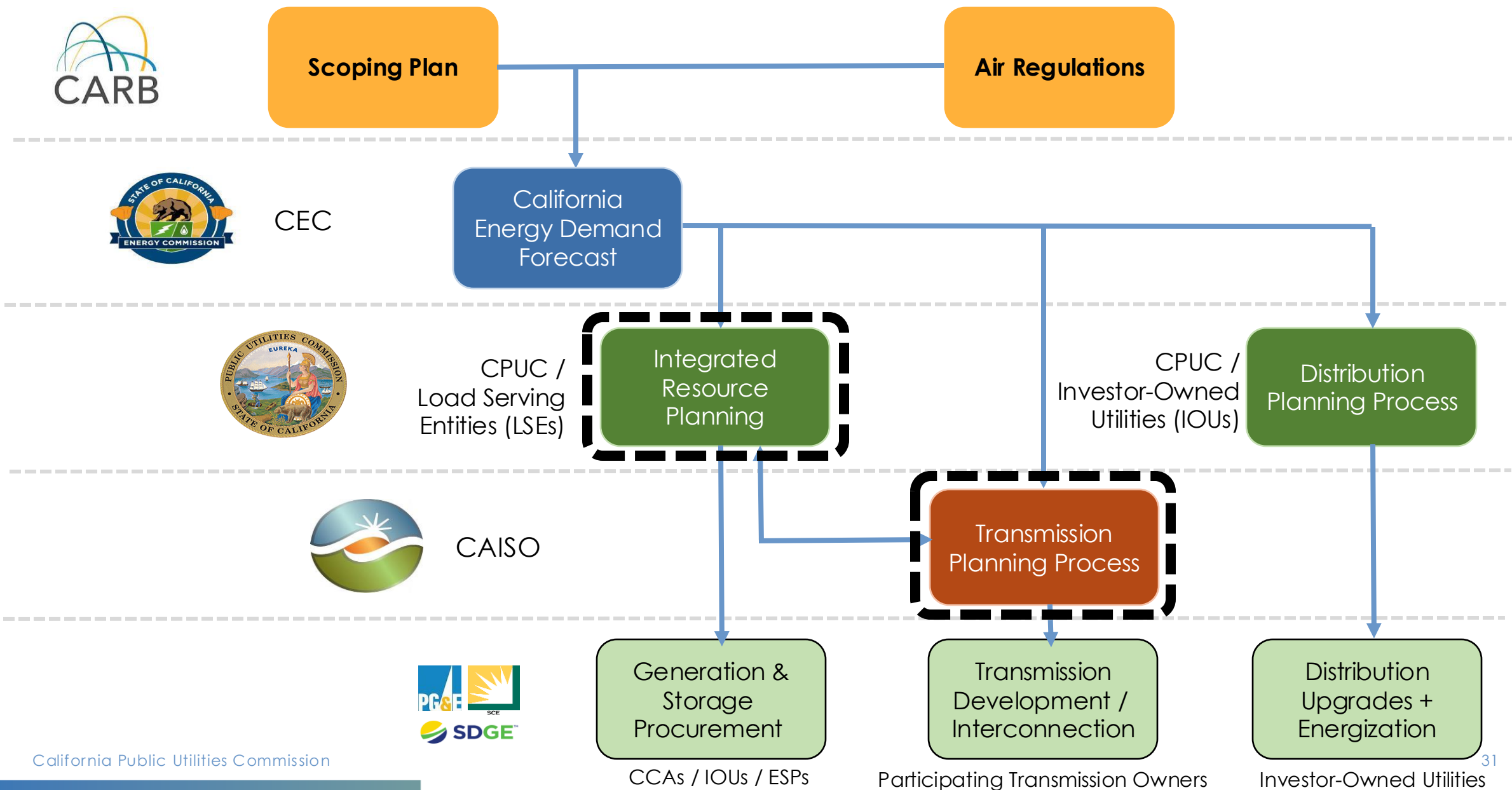
The CPUC develops and implements policies for the telephone communications and broadband markets, including ensuring fair, affordable universal access to necessary services.



Water

The CPUC is responsible for ensuring that investor-owned water utilities deliver clean, safe, and reliable water to their customers at reasonable rates.

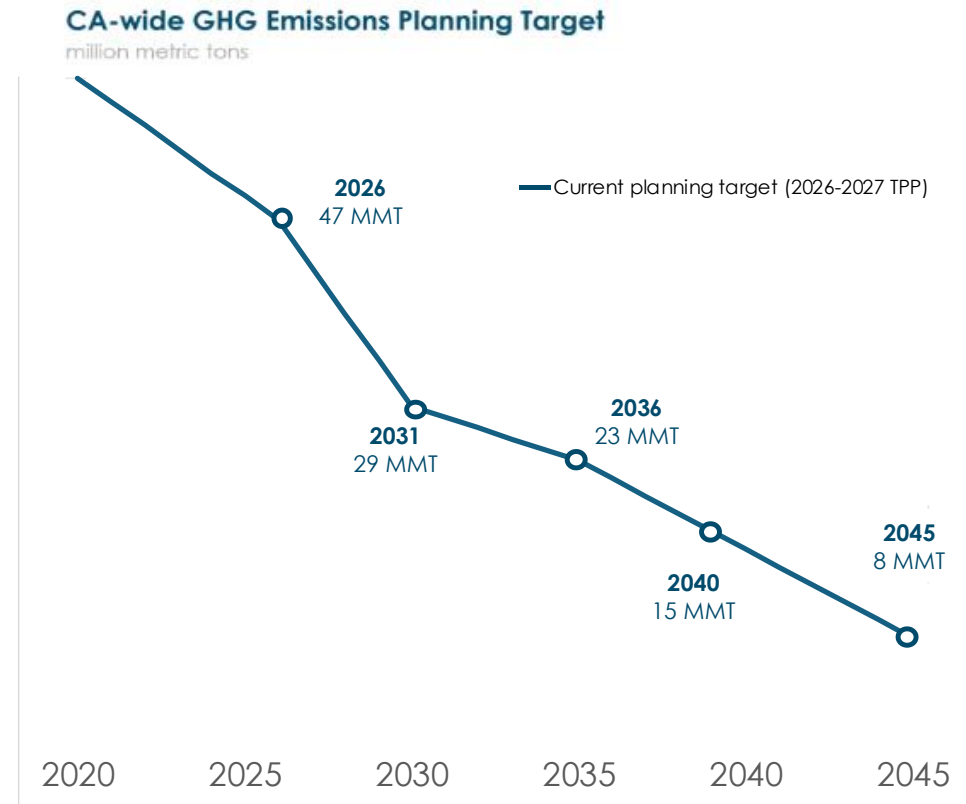
California Statewide Energy Planning Processes – High Level Overview



Integrated Resource Planning (IRP)

Integrated Resource Planning Goals

- CPUC established the **Integrated Resource Planning** process for setting electricity resource planning targets for CPUC - Jurisdictional LSEs in CAISO's Balancing Area Authority (BAA).
 - Consistent with SB 350 (2015) and SB 100 (2018)
 - Designed as a multi-step analytical planning process with input from load-serving entities and stakeholders
- IRP intends to achieve a resource portfolio that achieves:
 - Reliability
 - Greenhouse Gas Emission (GHG) reductions and clean energy procurement
 - Least cost

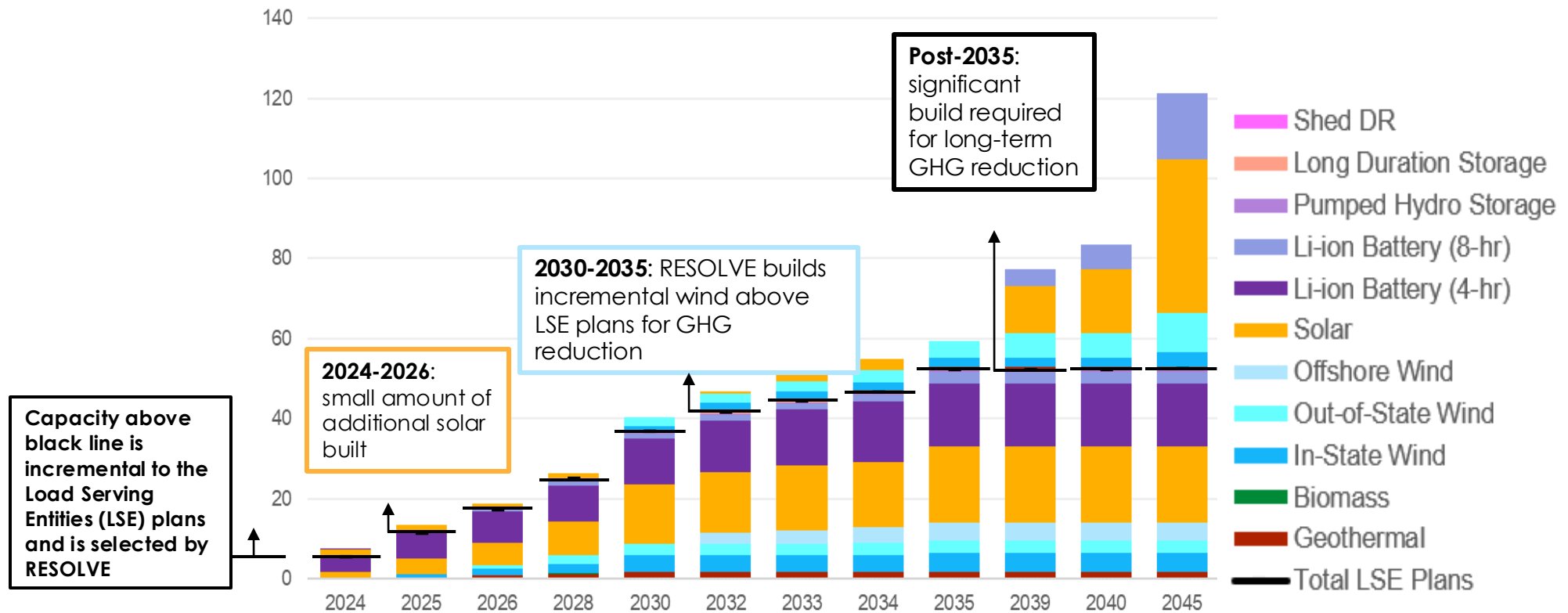


Source: Adjusted from CPUC February 2024 Preferred System Plan Portfolio, <https://www.cpuc.ca.gov/industries-and-topics/electrical-energy/electric-power-procurement/long-term-procurement-planning/2022-irp-cycle-events-and-materials> to reflect current 26-27 TPP and broadly 24-26 IRP cycle.

Capacity Expansion Modeling (RESOLVE)

- Optimizes investments in new resources, as well as economic retention of existing resources, subject to a host of constraints.

LSE Plans & RESOLVE-Selected Capacity in the 25MMT Core Case (GW)



What do IRP's Portfolios Inform?

- **Load Service Entity planning:** The IRP Portfolio (expected mix of new and existing generation and storage resources that will meet goals at least cost) establishes the foundation for LSE filing requirements.
- **CAISO Transmission Planning Process (TPP):** The IRP Portfolio is typically adopted and transmitted to CAISO for assessing transmission needs as a base case. Other portfolios may also be transmitted for study as sensitivities in TPP.
- **Avoided Cost Calculator (ACC):** The IRP Portfolio will likely be used as the basis for the 2028 ACC update. This update may also inform the Net Energy Metering (NEM) proceeding (rooftop solar).
- **Gas forecasting:** The PSP is the basis for the gas forecasts used in other proceeding, such as the Aliso Canyon (gas storage facility) Proceeding (I.17-02-002).

Transmission Planning Process (TPP) and Busbar Mapping

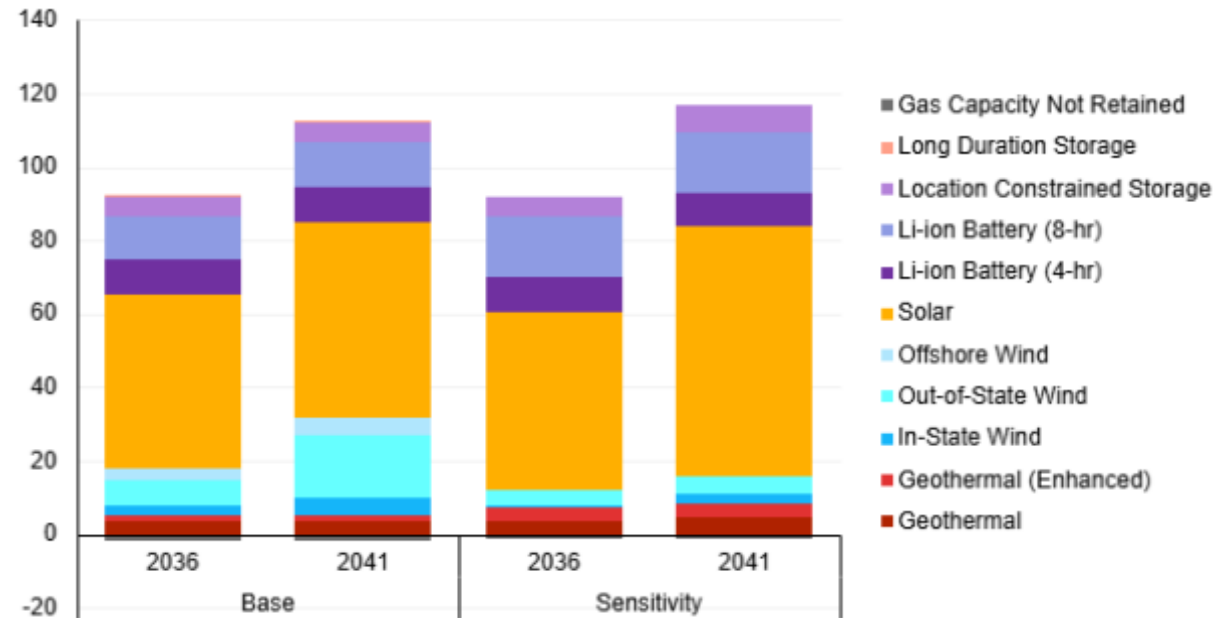
IRP's Role in the CAISO's Transmission Planning Process

- CPUC typically transmits multiple distinct portfolios (expected mix of new and existing generation and storage resources that will meet goals at least cost) developed in the IRP process.
 - **Base Case Portfolios**
 - Reflect state and CPUC policy guidance: including reliability & GHG reduction targets
 - Provide guidance for transmission planning
 - Lead to solutions submitted to CAISO Board for approval
 - **Policy-Driven Sensitivity Portfolios**
 - Explore different future scenarios or risks
 - Gather additional transmission information to support future portfolio development.
 - Do not directly go to CAISO for approval but can inform base case.
- Base Cases lead to identified transmission solutions going to the CAISO Board of governors for approval; sensitivities explore options and reduce risk.

Recent IRP Planning Decision Identified Portfolios for Use in CAISO's 26-27 TPP

- Meets California's electricity system reliability standard.
- Charts the path for California to achieve its electric sector GHG emission reductions and clean energy goals.
- Enables the CPUC to continue planning further into the future, achieve stringent GHG reduction targets, and serve increasing demand.
- Allows the CAISO to plan transmission at the lowest feasible cost because clean energy and storage resources are planned for in places where they provide the greatest value to the system and can minimize costs for ratepayers.

New Resource Buildout in 26-27 TPP Cases (GW)



[CPUC Advances Clean and Affordable Electricity with New Procurement Decision](#)

Role of Busbar Mapping in IRP and TPP

- **Resource to Busbar Mapping** (“busbar mapping”): The process of refining the geographically coarse portfolios developed through IRP to specific interconnection locations (i.e., substations) for analysis in the CAISO’s annual TPP.

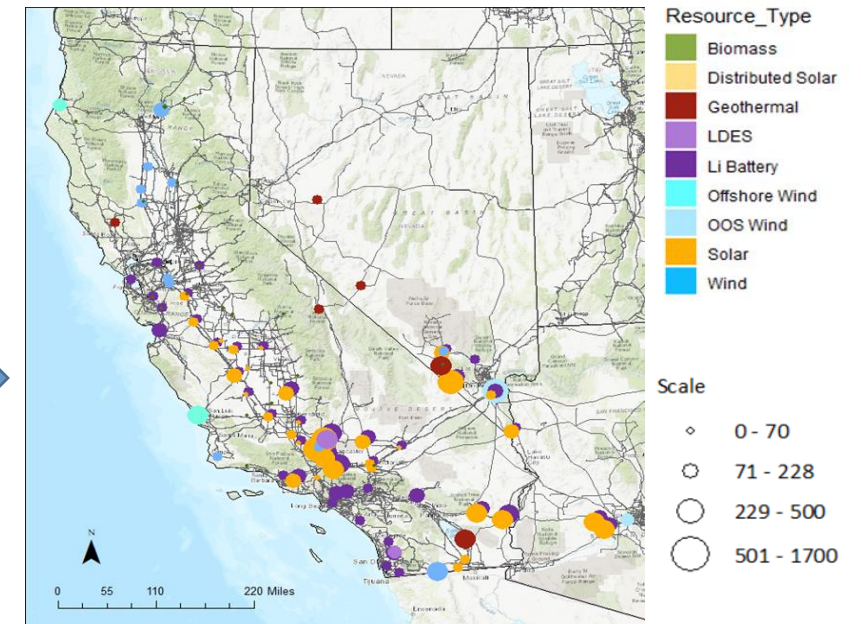
Input: Portfolio developed from LSE plans & RESOLVE model results

Resource Type	MW by 2032
Biomass	134
Geothermal	1,160
Wind	3,531
Wind OOS New Tx	1,500
Offshore Wind	1,708
Utility-Scale Solar	17,506
Battery Storage	13,571
Long-Duration Storage	1,000
Total	40,110

RESOLVE Resource Name	2032 Total (MW)
Greater_LA_Solar	1
Northern_California_Solar	-
Southern_PGAE_Solar	1,238
Tehachapi_Solar	2,969
Greater_Kramer_Solar	3,166
Southern_NV_Eldorado_Solar	7,382
Riverside_Solar	4,001
Arizona_Solar	-
Imperial_Solar	-

Mapping Process

Output: Substation-level location for resources



Busbar Mapping Overview

- A joint iterative effort by a working group comprised of CPUC, CEC, and CAISO staff that focuses on utility-scale generation and storage resources that:
 - Provides understanding of land-use and environmental implications of the portfolios
 - Allows for early identification of issues or barriers to development
 - Reduces potential environmental impacts and land use issues.
- Guided by the stakeholder-vetted mapping methodology, a document that states guiding principles, establishes mapping criteria, and outlines the iterative inter-agency mapping process.
 - Current [Mapping Methodology for the 26-27 TPP](#).

FERC vs. CPUC Oversight and Authority

FERC vs. CPUC Oversight & Authority

- The Federal Power Act grants the Federal Energy Regulatory Commission (FERC) jurisdictional authority over the Interstate Transmission System and wholesale electricity markets. Authority not granted to FERC, such as regulation of retail sales, retail customer energization, and safety and siting of the electric grid, belongs to the states.
- FERC approves utilities' costs related operating the interstate transmission system.
 - Approximately 90% of these costs in California are allocated to retail ratepayers, who the CPUC is mandated to advocate for at FERC.
 - The other 10% of the costs are allocated to wholesale customers like Department of Water Resources State Water Project and municipal utilities.
- While FERC approves transmission costs, allocation of the 90% share of those costs going to retail ratepayer classes (e.g., residential, commercial, agricultural) is under the authority of the CPUC.

CPUC Permitting Authority

- CPUC grants permits for FERC-jurisdictional transmission facilities (such as substations and transmission lines over 200 kilovolts [kV] and for some transmission facilities <200 kV).
- Permits are not required from CPUC for distribution facilities (at or <50 kV)
- CPUC is CEQA lead agency for transmission projects requiring CPUC permits; CPUC is lead agency responsible for implementing AB 52 consultation with Tribes for these projects
- CPUC sets a maximum reasonable and prudent cost for transmission projects subject to a certain type of permit, called a Certificate of Public Convenience and Necessity (CPCN).
- Commission votes on “851 applications” for public-private partnerships in transmission ownership pursuant to Section 851 of the Public Utilities Code.
- Permit applications and 851 applications are subject to CPUC’s legal proceeding process

CPUC's Office of the Tribal Advisor

- The CPUC is committed to integrating Tribal concerns into its programs and policies through active discussions and consultations with Tribes. The [Office of the Tribal Advisor](#) provides information about upcoming forums, hearings, and workshops.
- The Office serves as a resource for California Native American Tribes, facilitating government-to-government relationships and communication with the CPUC. It aims to support self-governance and ensure meaningful input in the development of policies that affect Tribal communities.
- If you would like to receive notices of upcoming events, workshops, and news, please join our mailing list [here](#).

For inquiries, contact the Office of the Tribal Advisor at
TribalAdvisor@cpuc.ca.gov

Thank you!

Appendix

Opportunities for Engagement in IRP

1. Reach out to our team

- Staff contact information is available at the bottom of the [IRP webpage](#) for any IRP-specific inquiries.
- The [CPUC's Office of the Tribal Advisor](#) provides information tailored to tribal needs beyond IRP can help connect you with the appropriate CPUC contacts and resources.

2. Provide public comment

- Anyone can provide a public comment in CPUC proceedings of interest, including the IRP proceeding.
 - Navigate to the [IRP docket](#)
 - Click the "Add Public Comment" button

3. Become a Party in the IRP proceeding R.25-06-019

- A [Party](#) is a person or organization that is formally and directly involved in the decision-making process.
- Tribes are often eligible for [intervenor compensation](#) for participation in CPUC proceedings and are eligible to apply for [one-off grants](#) when available.
- The estimated timing for commenting, workshops, and other proceeding activities is available in the [IRP Scoping Memo and Ruling](#).

Acronyms

Abbreviation	Name
AB	Assembly Bill
ACC	Avoided Cost Calculator
BAA	Balancing Authority Area
CAISO	California Independent System Operator
CARB	California Air Resources Board
CEC	California Energy Commission
CPUC	California Public Utilities Commission
CSP	Clean System Power (calculator)
GHG	Greenhouse gas
I&A	Inputs and Assumptions
IEPR	Integrated Energy Policy Report
IRP	Integrated Resource Planning
LOLE	Loss of Load Expectation

Acronyms

Abbreviation	Name
LSE	Load serving entity
MMT	million metric ton
NREL ATB	National Renewable Energy Laboratory Annual Technology Baseline
NT	Narrative template
PCM	Production Cost Modeling
PD	Proposed Decision
PSP	Preferred System Plan
RA	Resource Adequacy
RCPPP	Reliable and Clean Power Procurement Program
RDT	Resource data template
RPS	Renewables Portfolio Standard
RSP	Reference System Plan
SB	Senate Bill
TPP	Transmission Planning Process

Introduction to Wholesale Electricity Markets for Tribes

May 26, 2026 | TECC-X Meeting: California Tribes and Wholesale Electricity Markets

Sydney Welter | Regional Markets Policy Advisor

Nadene Hubbard | Tribal Engagement Fellow

westernresourceadvocates.org

wra Western
Resource
Advocates®

AGENDA

Electricity Markets

- About WRA
- Western electric grid
- Wholesale electricity markets
- Why this matters for Tribes



About Western Resource Advocates

We're tackling the largest sources of carbon pollution, improving air quality for nature and people, protecting and restoring our rivers and water supply, and connecting the West's unparalleled landscapes.



Our Work

WRA fights climate change and its impacts to sustain the environment, economy, and people of the West.



Our Approach

Working where decisions are made, sweating the details, and creating evidence-based solutions.



Our Strength

We create transformational change by driving action at the state level and achieve measurable results.



The changing West

West is moving toward regional electricity markets

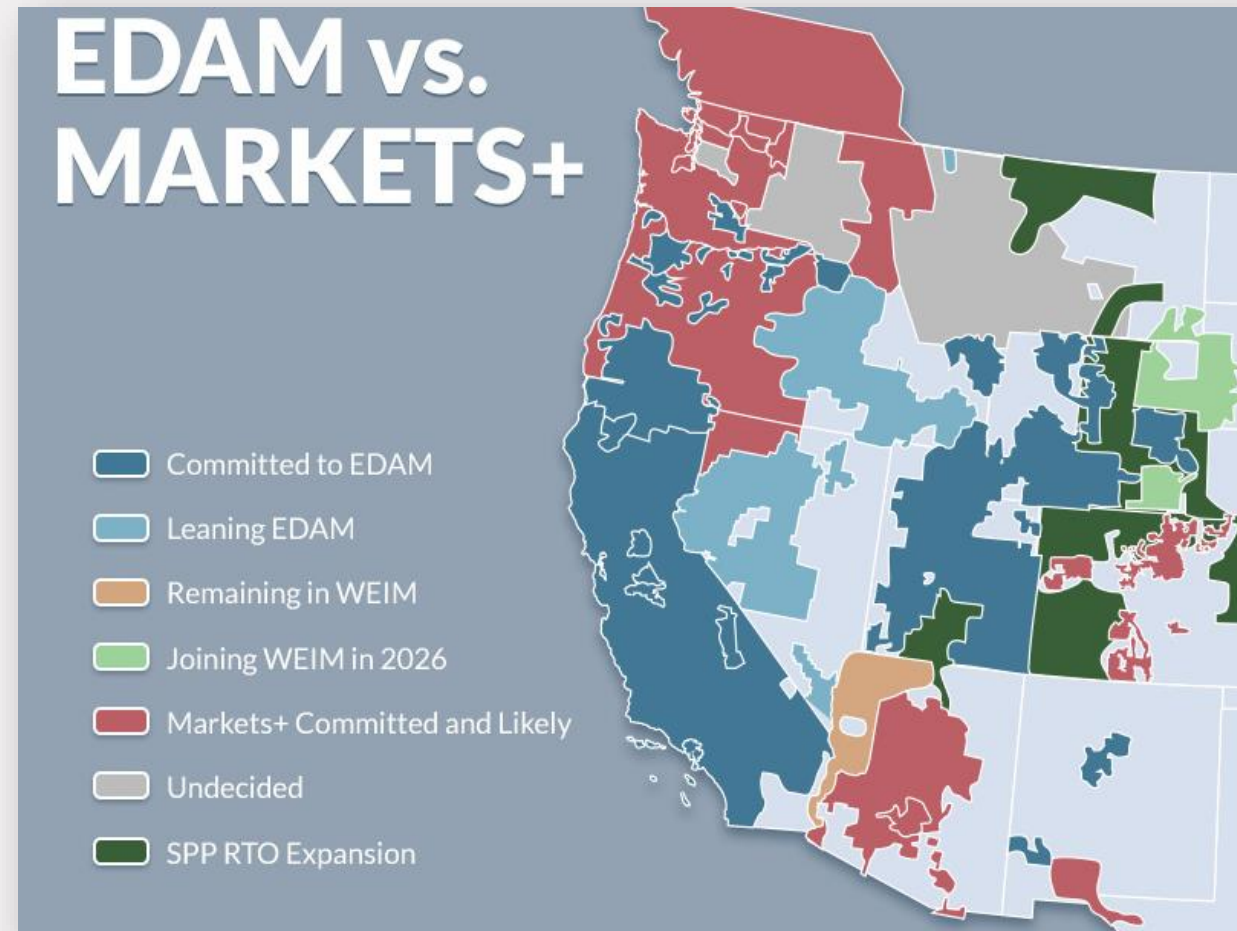
Markets help balance reliability, cost, and clean energy goals

Most of U.S. already operates under RTO/ISO markets

The West is developing an incremental approach



Map from RTO Insider



Why this moment matters for Tribes



WRA Tribal Energy Markets & Transmission Workshop Series

In Fall 2025 and Spring 2026, WRA hosted a workshop series bringing together tribal leaders, utilities, advocates, and regional energy experts from across the West to discuss electricity markets, transmission planning, and regional governance changes.

Why Tribes are paying attention

Regional electricity market and transmission decisions can influence:

- future transmission development near tribal communities
- access to reliable and affordable power
- clean energy development opportunities
- infrastructure investment and economic development
- how tribal priorities are represented in long-term regional planning





Regulation & decision-making

Federal

- Federal Energy Regulatory Commission (FERC)
- North American Electric Reliability Corporation (NERC)
- Energy Policy Act of 2005 – Tribal energy and consultation

Regional

- Western Electricity Coordinating Council (WECC)
- Western Interstate Energy Board (WIEB)
- Transmission planning regions

State

- Utility commissions (e.g. CPUC)

Internal governance

- How decisions are made at each utility, market operator, joint action agency, etc.



Types of Utilities

Federal

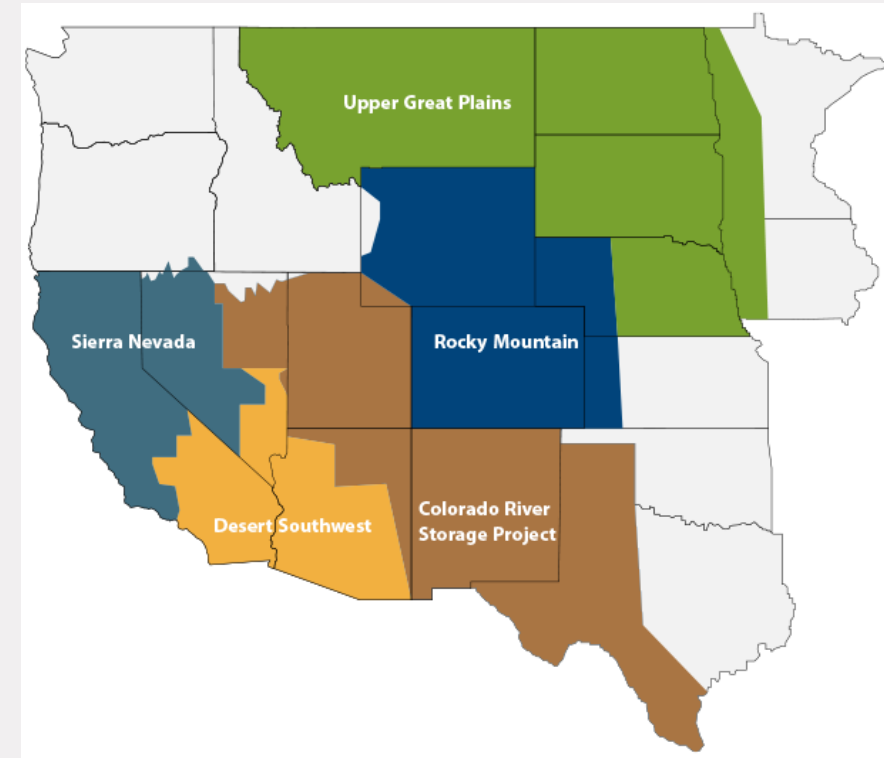
- BIA utilities (e.g., CRA-ES)
- Power Market Administrations (PMAs): Federal hydropower agencies (e.g., BPA, WAPA)

Investor-Owned Utilities (IOUs)

- For-profit, serve most customers in US, and state-regulated (e.g., PacifiCorp, PG&E, SDG&E, SCE)

Public power and additional utilities

- Munis: Overseen by local government (e.g., LADWP)
- Co-ops: Non-profit, member-run, intended to electrify rural areas (e.g., Anza Electric Coop)
- Tribal utilities: (e.g., Pechanga Western Electric)





The changing West

Energy imbalance markets

- CAISO Western EIM

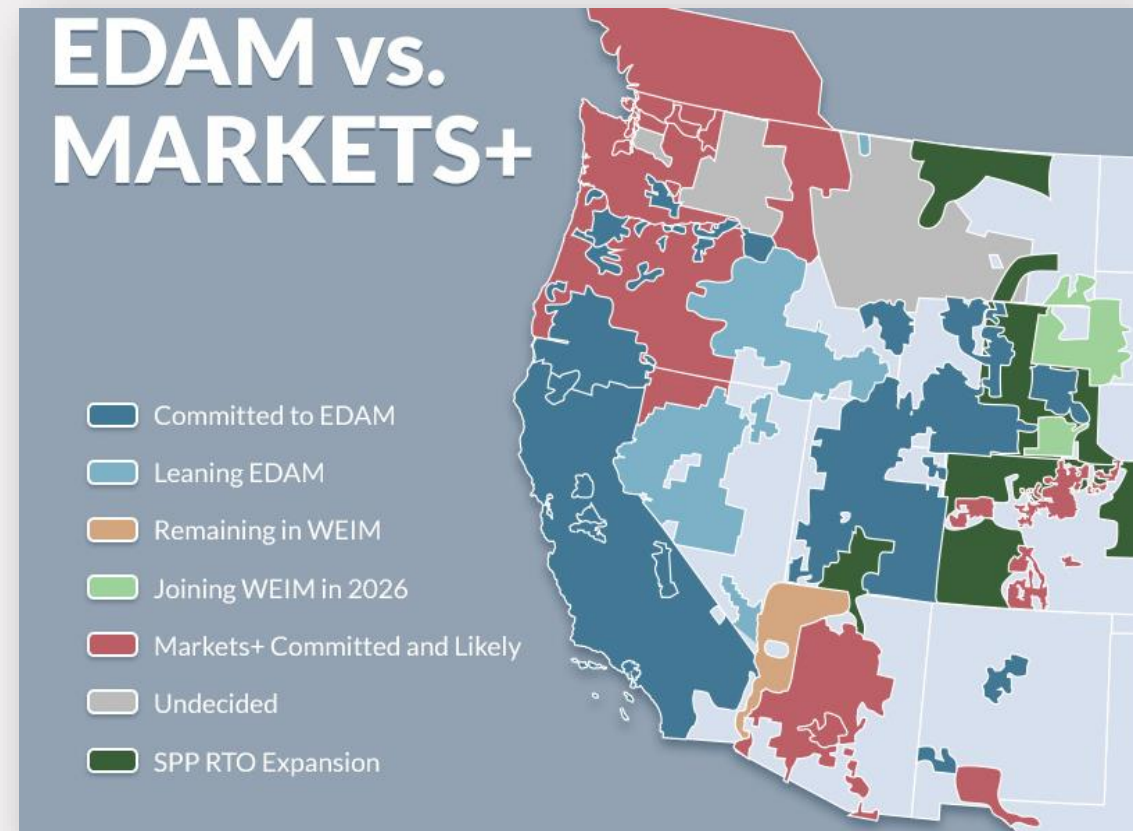
Day-ahead markets

- CAISO Extended Day-Ahead Market (EDAM). May 2026. To include PacifiCorp, LADWP, NVE.
- SPP Markets+. Oct 2027. To include BPA, big AZ utilities.

Independent System Operators (ISOs) & Regional Transmission Operators (RTOs)

- CAISO
- SPP. Apr 2026 expansion into West.

Map from RTO Insider



What WRA heard from Tribes



Consistent themes

- Tribes want earlier and more meaningful engagement in regional decision-making
- Tribes want to be recognized as sovereign Governments, not as stakeholders
- Many tribes expressed interest in understanding:
 - where decisions are made
 - how regional governance works
 - how tribes can engage before decisions are finalized

Attendees also highlighted the importance of:

- protecting tribal priorities and community interests
- identifying long-term economic and infrastructure opportunities
- building relationships before projects or planning processes advance
- increasing tribal representation in planning and governance discussions



Questions?



Thank You!

wra

EMAIL: NADENE.HUBBARD@WESTERNRESOURCES.ORG

WEBSITE: WESTERNRESOURCEADVOCATES.ORG



California ISO

California ISO Overview

Shannon O'Rourke
Director, California Regulatory Affairs

May 26, 2026

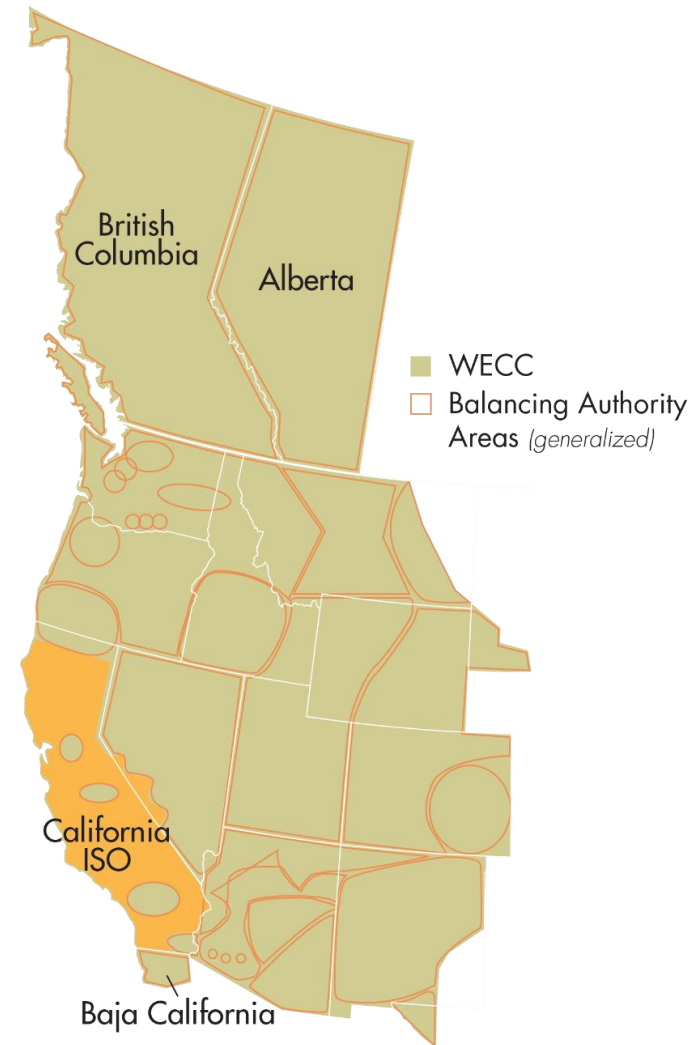
North America Interconnections



Western Electricity Coordinating Council (WECC)

WECC oversees reliability planning and assessments, and monitors and enforces compliance for the Western Interconnection, which extends from Canada to Mexico, and part of 14 western states.

- The ISO is the largest of the 38 balancing authorities within WECC's footprint
- The ISO manages 61 percent of WECC's total electric load



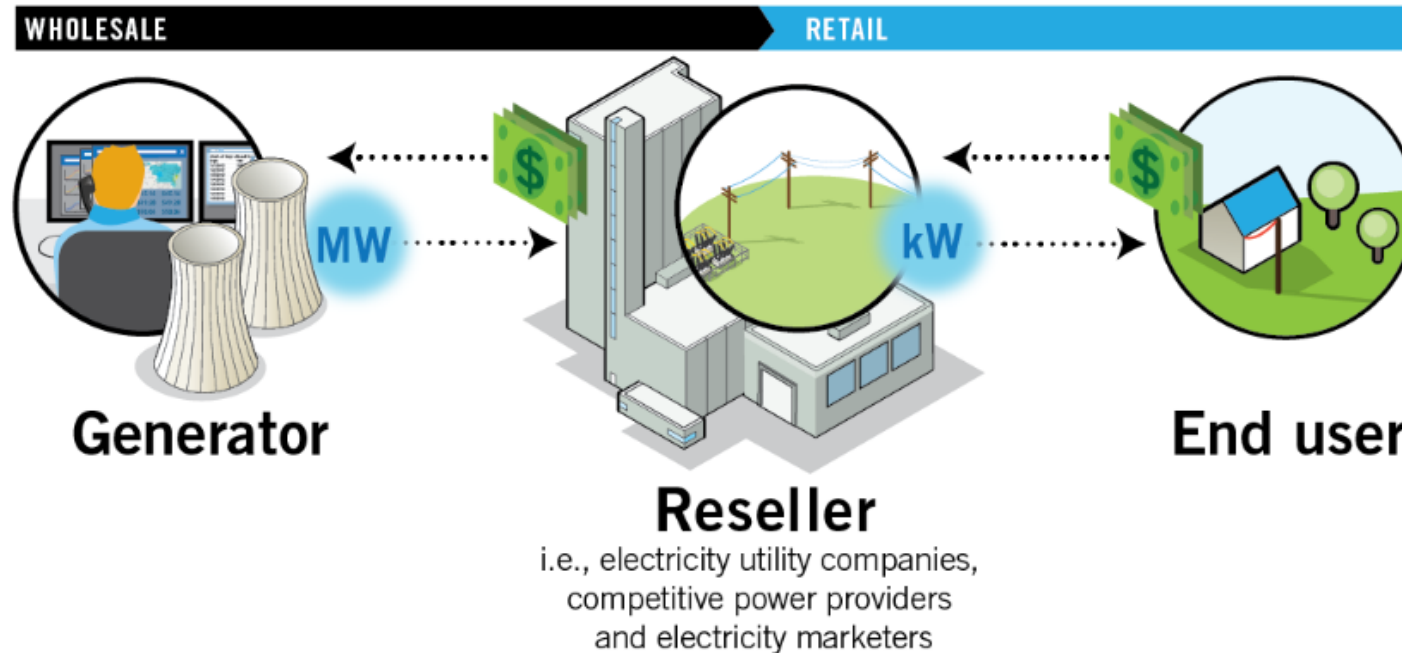
CAISO Balancing Authority (BA)

- A balancing authority is an entity responsible for maintaining the balance between electric supply (generation) and demand (load) within a specific geographic area, known as the balancing authority area
- The CAISO as a balancing authority:
 - Serves 80% of California and a small portion of Nevada
 - Manages the delivery of energy on the transmission system to load serving entities on the distribution system
 - Load serving entities include investor-owned and publicly-owned utilities, community choice aggregators, and energy service providers



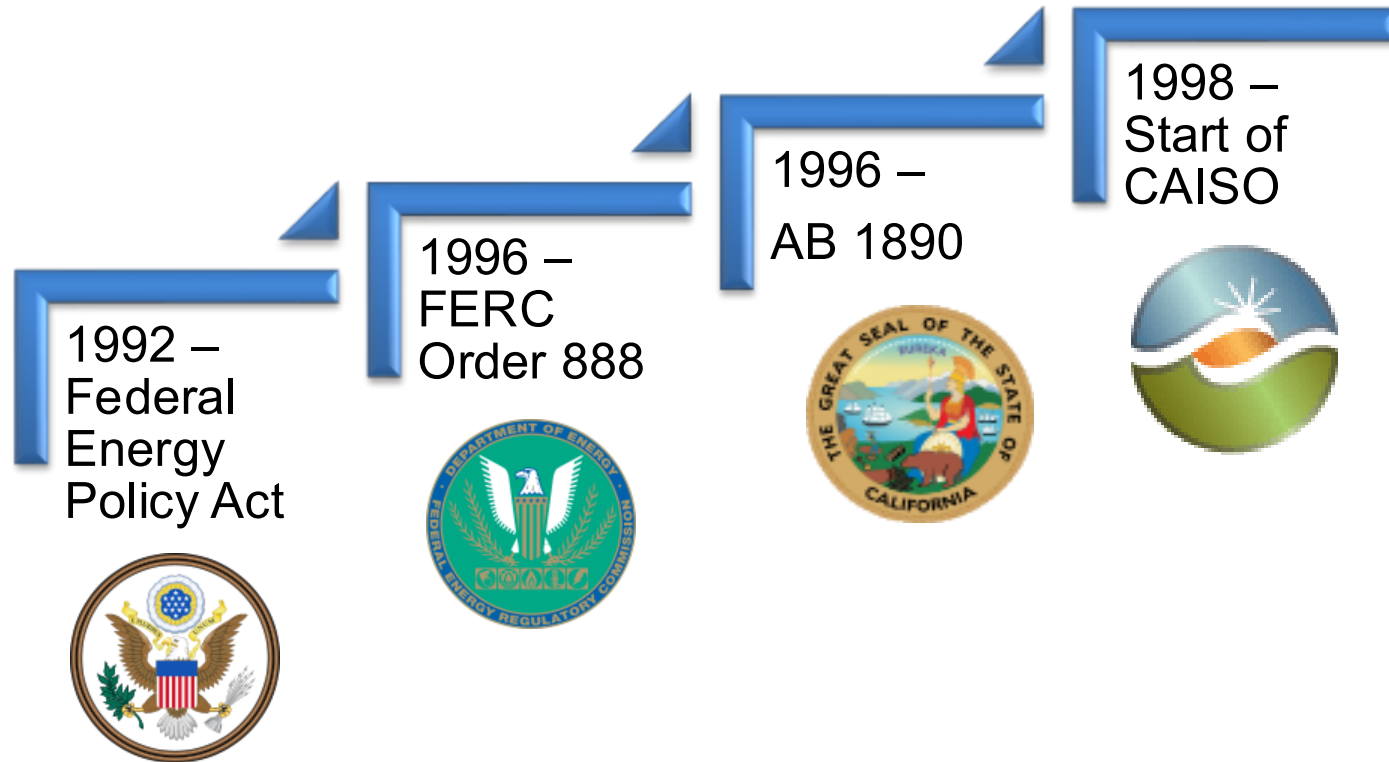
“Wholesale” versus “retail” electricity sales

- Sale from Generator to Reseller is a wholesale sale of electricity
- Sale from Local electric utility to customer residences and businesses are retail sales



Source: FERC

Start of the CAISO



CAISO oversight

Comply with

NERC

North American Electric
Reliability Corporation

Regulated by

FERC

Federal Energy
Regulatory Commission

The ISO is regulated by the federal government because management of interstate transmission lines falls under federal jurisdiction.

Part of

WECC

Western Electricity
Coordinating Council

Governed by a

FIVE

member board
Governor appointed,
Senate confirmed

California ISO

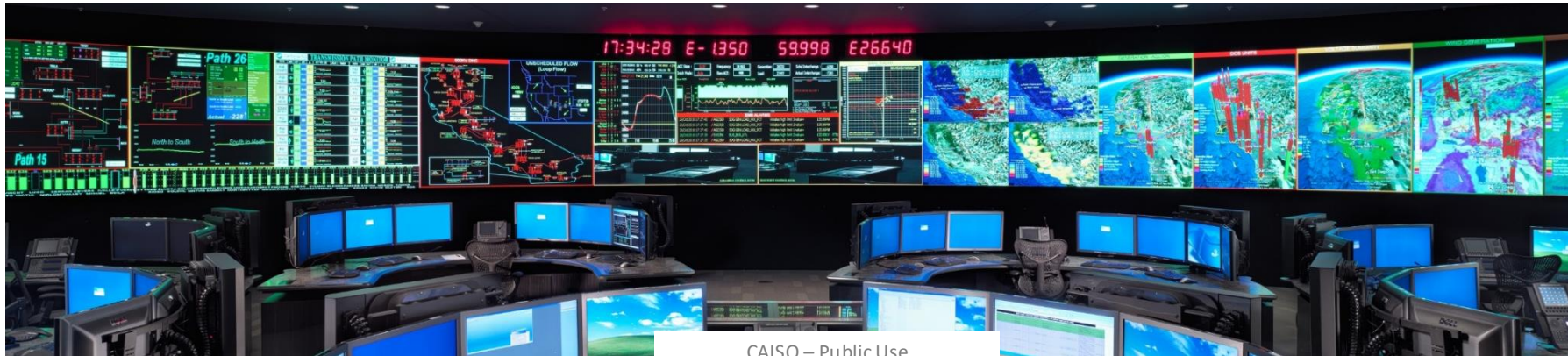
The ISO is a nonprofit, public benefit corporation

Within its balancing authority area, the California ISO:

- Maintains reliability on the grid and manages flow of energy
- Oversees the transmission planning process
- Operates the wholesale electric market

For much of the western U.S., the ISO:

- Operates the Western Energy Imbalance Market (EIM)
- Serves as Reliability Coordinator (RC West)



CAISO – Public Use

The ISO is a grid operator and market operator



grid operator

maintains reliability by:

- balancing supply and demand
- operating transmission system within limits
- ensuring grid is secure in case of a contingency event
- orchestrating restoration in case of a system outage



market operator

supports reliability by providing:

- a larger operational footprint
- cost minimization to balance supply and demand
- non-discriminatory grid access to supply and demand
- price transparency reflective of system conditions
- compensation for grid services

Transmission planning

The ISO collaborates with stakeholders in an annual process to create a long-term transmission plan. Engineers design and analyze complex models and simulations to identify grid expansion needs to:

- Address reliability such as load growth
- Support public policy such as state energy and environmental goals
- Reduce costs through economic upgrades

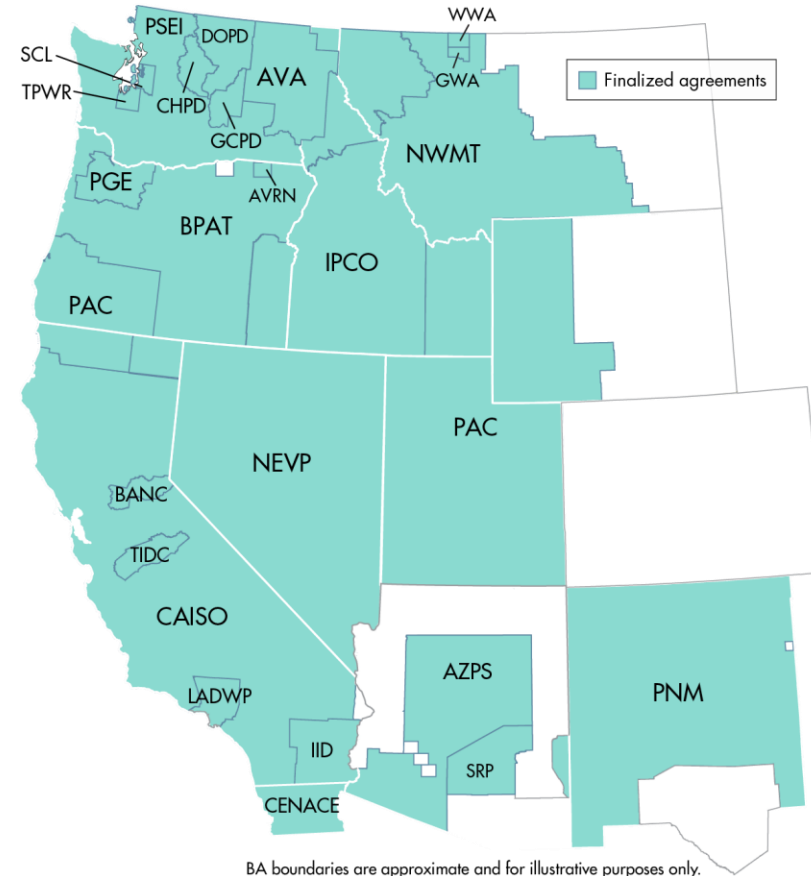


RC West

The ISO became the reliability coordinator for the majority of the Western Electricity Coordinating Council (WECC) in 2019.

Reliability coordinators:

- Have authority and responsibility for grid stability
- Monitor the interconnected grids in the West for compliance with federal and regional standards
- Authorize measures to prevent or avoid system emergencies in day-ahead or real-time operations
- Lead system restoration following major incidents



The ISO provides two markets to optimize for reliability and economics

Day-Ahead Energy Market

Commits the most cost-effective and reliable mix of generation for the region

Enables parties to schedule contracted supply/demand

Enables suppliers to offer excess supply in the form of energy or reserves

Enables Load Serving Entities to secure pricing to meet their demand for energy

Real-time Energy Market

Economically dispatches resources to balance real-time supply and demand, while ensuring system reliability

Extends beyond California to other western states

Hour-ahead scheduling for intertie resources

Optimization every 15-min for intra-hour variability and every 5-min to meet instantaneous demand

WEIM

Grid operators need a plan for operating the next day to ensure reliability

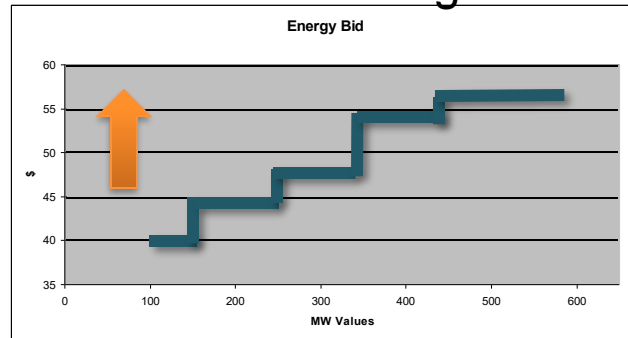
- The California ISO uses its **day-ahead market** to create a reliability plan. As a result, resources are committed to provide:
 - Supply to meet the demand that cleared in the market
 - Supply to meet the ISO demand forecast
 - Ancillary services to meet the reliability requirements



Energy bids provide an economic signal indicating a participant's willingness to supply or purchase energy

SUPPLY

Up to 10 segments,
monotonically non-
decreasing

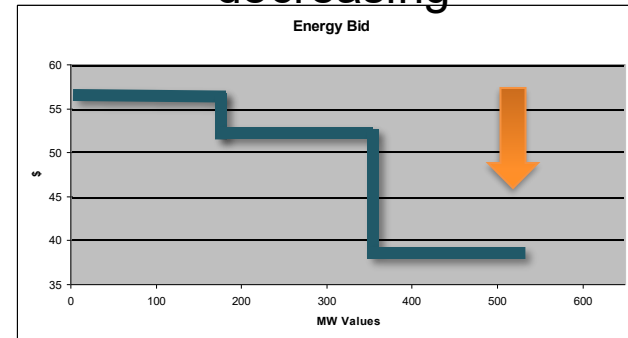


generators and imports

The **higher** the price,
the more they will
supply

DEMAND

Up to 10 segments,
monotonically
decreasing

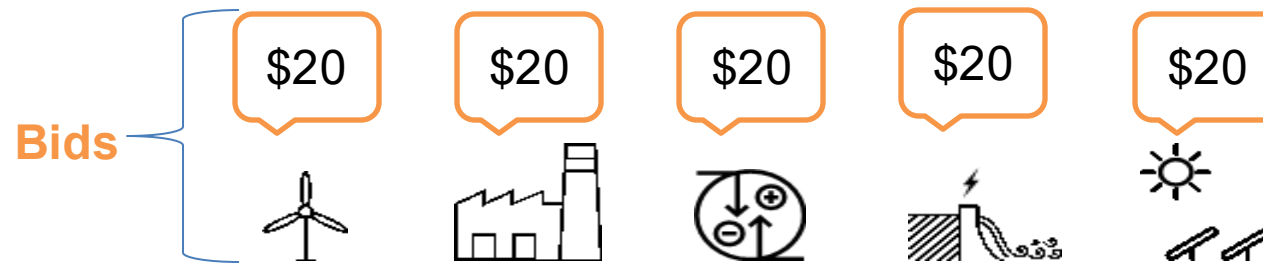


loads and exports

The **lower** the price,
the more they will
buy

Self-schedules (AKA price takers) submit bids for MW without prices

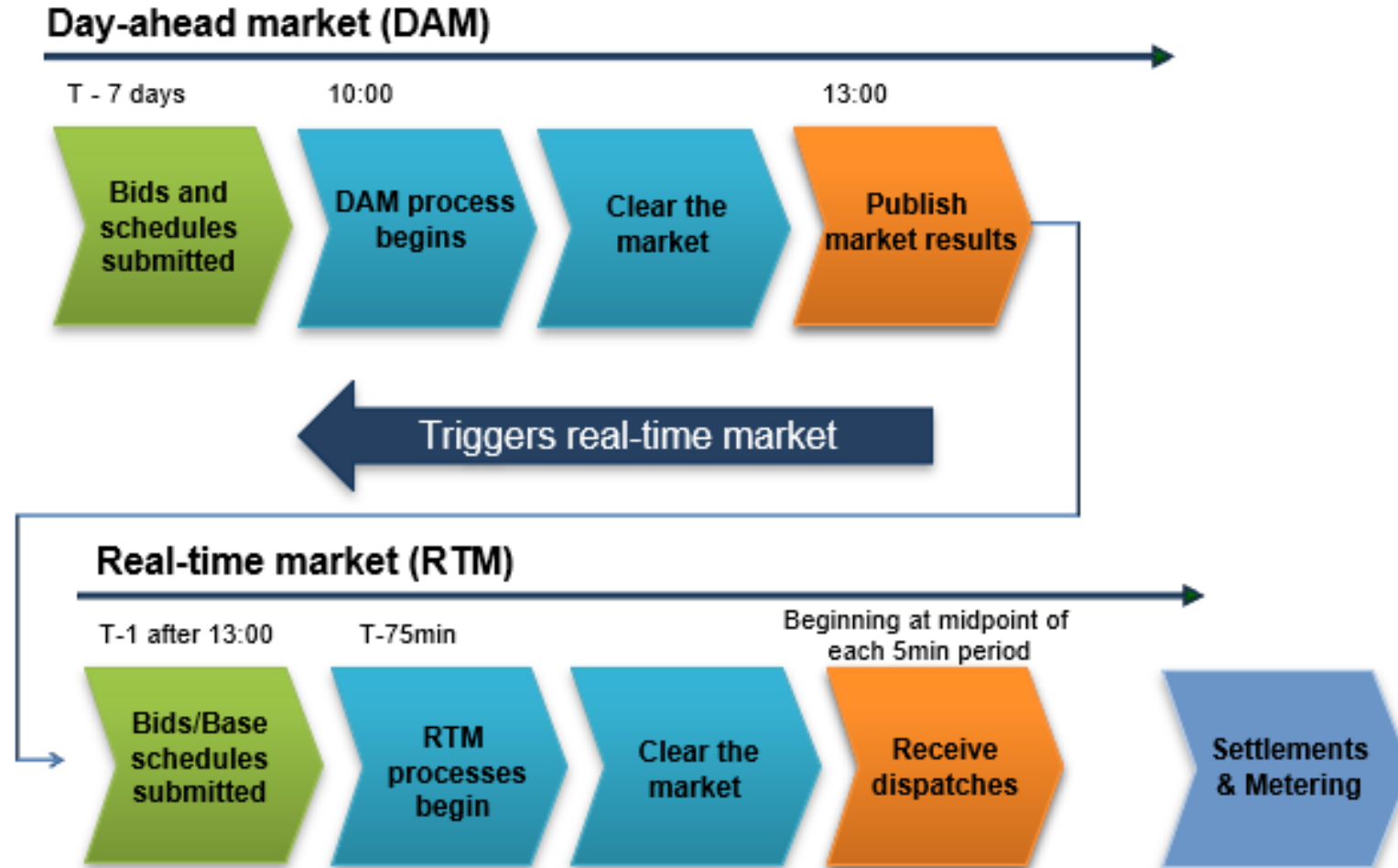
How does the market decide which resources to commit?



Three-part energy bid includes:

- Start-up cost (\$/Start)/Transition costs (\$/Transition)
- Minimum load cost (hourly)
- Energy bid curve above minimum load (\$/MWh)

Market process timelines



ISO real-time markets

Centralized economic dispatch optimizes use of all resources – reduces cost of serving demand

Resolve transmission constraints economically

Transparency on constraints and costs

System is re-dispatched every 5 minutes to meet current system conditions

Procure additional ancillary services for the ISO balancing authority area

Stay Connected



California
ISO



ISO Today
mobile app



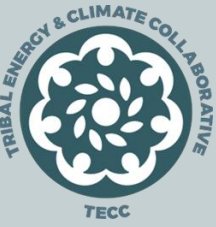
California
ISO
Daily Briefing



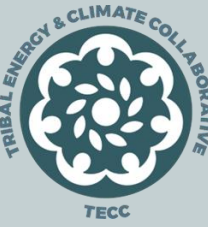
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Q&A



Tribal Climate Adaptation through...

Extreme Heat Planning Part 2

Agenda

- 35 min EISI for EH Tool Demonstration
- 10 min Audience Q&A

Background: A Tale of Two Tools

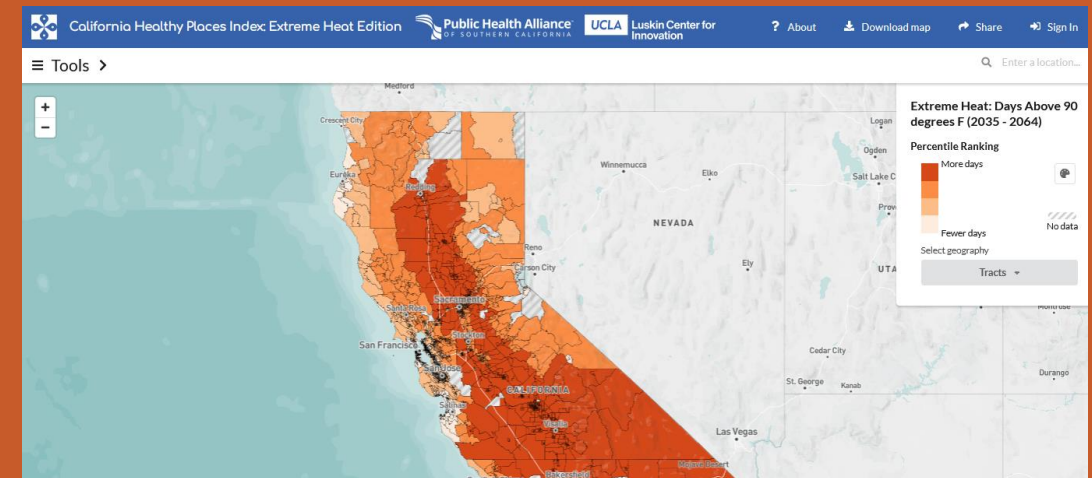
Exposures, Impacts, and Strategies Core tool

A			B			C			D			E			F			G			H			I			J			K			L			M			N			O			P																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
1 EVALUATE SEVERITY AND LIKELIHOOD OF EXPOSURES TO COMMUNITIES (NATIONAL AND CA)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

- **Spreadsheet**-based tool
- Covers **multiple climate exposures**
- Provides **links** to nationwide data sources

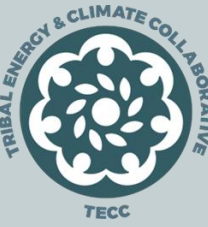


Healthy Places Index: Extreme Heat Edition



- Interactive, **web-based** tool
- Solely focused on **extreme heat**
- Provides **direct access** to data and visualizations





Speaker Introductions

Presenter of the EISI for EH Tool



Coline Bodenreider

Climate Change and Health Data Lead

Public Health Alliance of Southern California

Please add your questions or comments to the chat
or raise your hand after presentations

Zoom Poll

What challenges does your Tribe experience during extreme heat adaptation planning?



EISI for Extreme Heat Online

Tool Launch and Training

May 26th, 2026



What is the EISI for Extreme Heat Online Tool?

The EISI for Extreme Heat Online is a free, interactive web tool that guides your Tribe through a step-by-step extreme heat vulnerability assessment

-  Assess past, present & future heat exposures
-  Identify secondary exposures (e.g., air quality)
-  Evaluate how extreme heat impacts your Tribe
-  Discover adaptation strategies

Who should use this tool?



Tribal environmental professionals



Tribal Governments & Council Members



Tribal-serving organizations



Anyone supporting Tribal climate resilience

Before You Begin

Practical Tips



Takes 30 minutes to complete



Your data is stored securely — only you and site administrators can view your inputs



Save & return anytime — the tool saves your progress automatically



Engage community members early in the process



Return to previous sections and revise selections if needed

How to Access the Tool

eisi.healthyplacesindex.org

- 1 Click “Log In” on the homepage
- 2 Enter your email address
- 3 Check your email for a one-time password
- 4 Use the password to log in and get started

EISI for Extreme Heat Online Demo



Key Takeaways



The tool is designed specifically for California Tribes



Engage your community first to make your assessment more meaningful



Consider your Tribe's lived experience alongside data to develop a complete vulnerability picture



Use findings from the tool to prioritize adaptation strategies



Generate a ready-to-use report at the end to support grant applications and planning

Ready to get started?

Visit:

eisi.healthypplacesindex.org

Questions? Contact

tchp@prospersustainably.com

What's Next?

**Access 1-on-1 Technical Assistance
for EISI for Extreme Heat Online**



bit.ly/EISIExtremeHeatTA

**Public Training on the EISI for
Extreme Heat Online Report Feature**



Thursday October 15, 2026

Register: bit.ly/EISI_ReportFeature

**Future Directions for the EISI for
Extreme Heat Online tool**

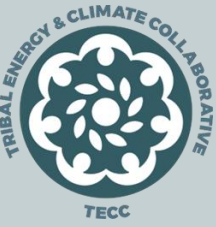
With additional funding, we hope to:

1

Expand to additional climate hazards, including wildfire risk, sea level rise, and drought

2

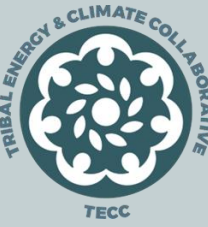
Develop an adaptation strategy assessment framework



Q&A



Additional Resources for Extreme Heat Planning



Exposures, Impacts, and Strategies Inventory (EISI) Tool – Supports adaptation planning.
TCHP

Data Development – National Tribal Resilience Data Workgroup – Data access and solutions. *TCHP*

California's Heat Assessment Tool –Heat Impacts in Communities. *Cal-heat*

California's Extreme Heat Action Plan – Draft Update Available

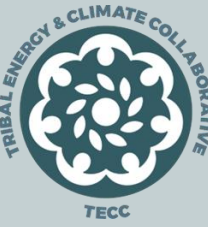
Extreme Heat Fact Sheet – *PALA*

Other Funding Opportunities:

- **FY 24-25 Building Resilient Infrastructure and Communities (BRIC)** - Natural Hazard Risk Mitigation. July 23
 - Technical Assistance Available
- **FY 25 Emergency Management Performance Grant (EMPG) Program** – Emergency Preparedness and Response. May 29
- **California Wildfire Mitigation Program** – for homeowners and potential contractors. Ongoing



Follow us on LinkedIn!



[TCHP LinkedIn Page](#)



[TECC LinkedIn Page](#)





**TRIBAL ENERGY &
CLIMATE COLLABORATIVE**



**TRIBAL CLIMATE
HEALTH PROJECT**

Thank you!

Next TECC-X is June 23, 2026

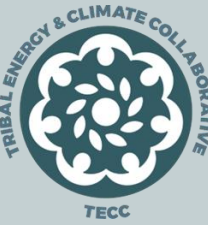
Shasta Gaughen
Pala Band of Mission Indians
760.891.3515
sgaughen@palatribe.com

Josh Simmons
Prosper Sustainably
805.617.5685
jsimmons@prospersustainably.com

Angie Hacker
Prosper Sustainably
805.234.5131
ahacker@prospersustainably.com



Stay for an additional Bonus Session!



Co-hosted by Tribal Energy & Climate Collaborative (TECC) and the
California Public Utilities Commission (CPUC)

Featured Topic: Regional Organization for Western Energy (ROWE) Formation and Tribal Engagement

11:00am – 12:00pm

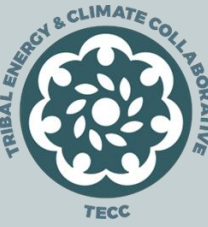
Agenda

- Western Energy Imbalance Market (WEIM) and Extended Day Ahead Market (EDAM)
- The West-wide Governance Pathways Initiative
- Regional Organization for Western Energy (ROWE) Update
- Audience Q&A and Discussion

Stay in the main room!



Speaker Introductions



Shannon O'Rourke

California Regulatory Affairs Director
California Independent System
Operator



Andrew Valainis

Senior Associate
Regulatory Assistance Project



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Please add your questions or comments to the chat
or raise your hand after presentations



California ISO

Western Energy Imbalance Market (WEIM) and Extended Day Ahead Market (EDAM)

Shannon O'Rourke

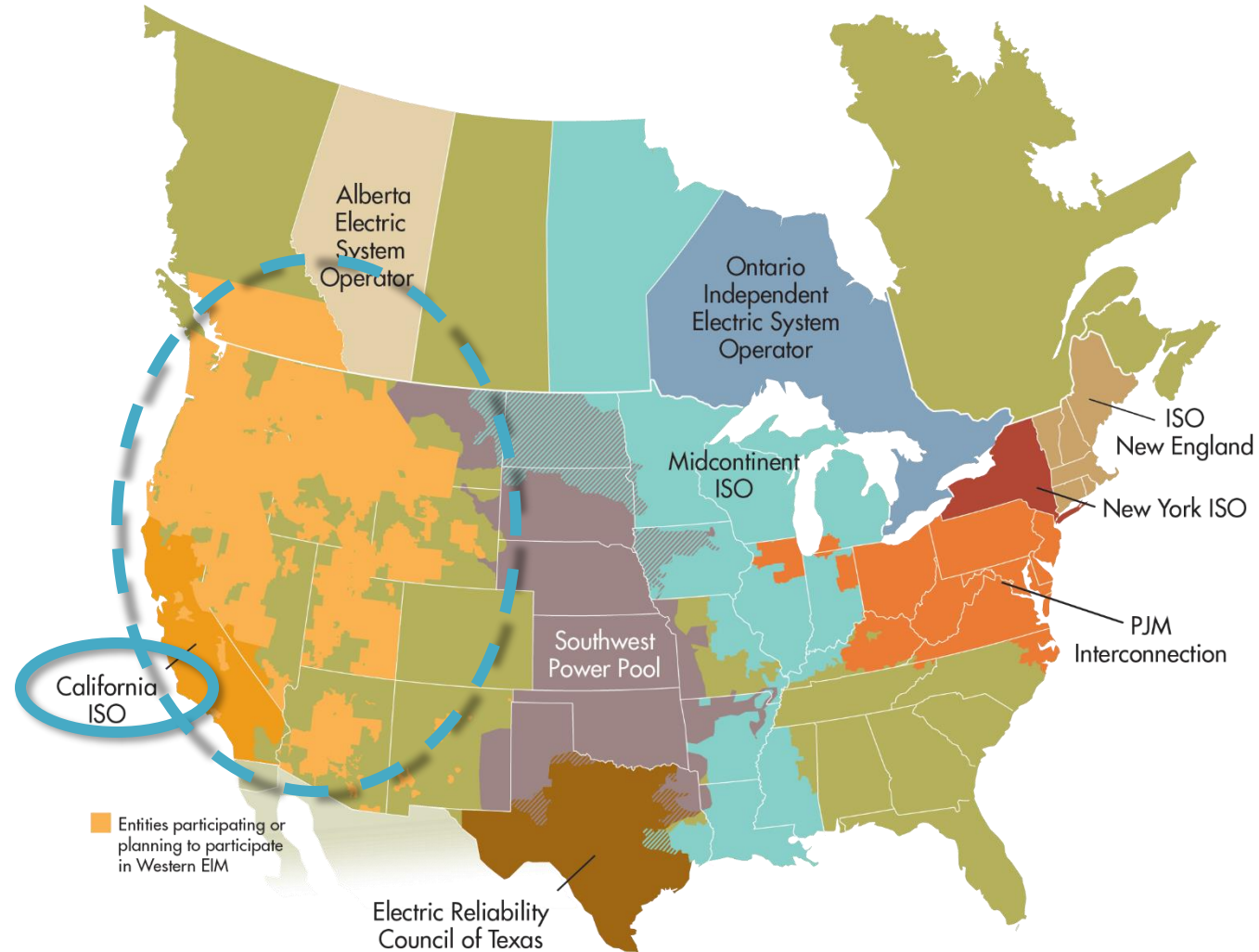
Director, California Regulatory Affairs

May 26, 2026

North America Interconnections



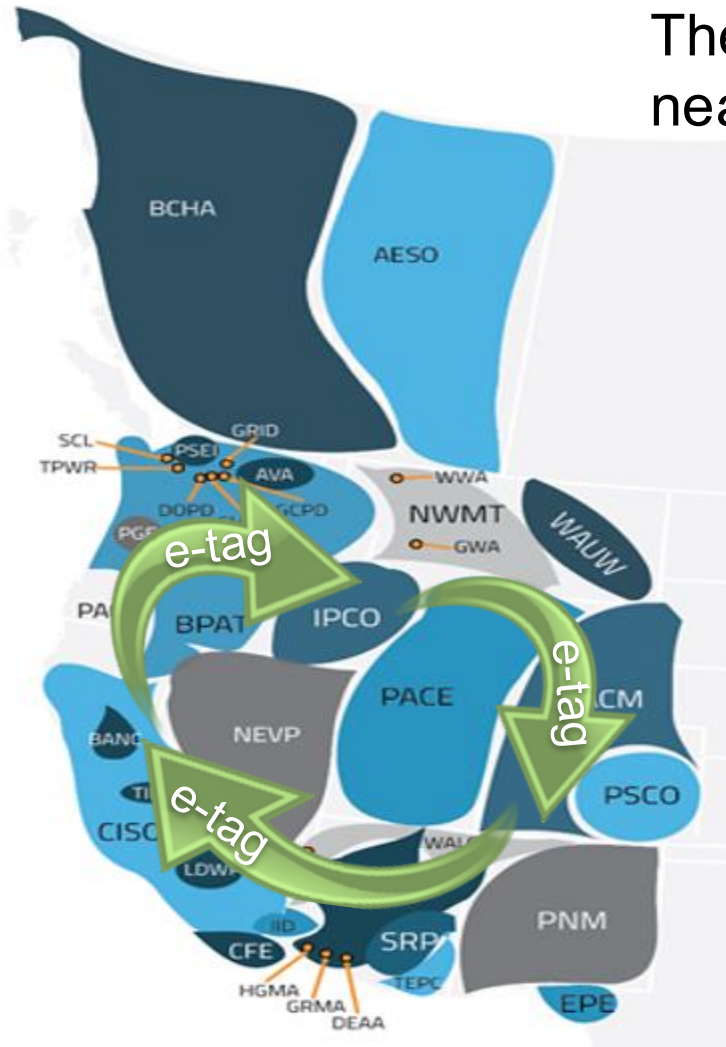
North American energy regions share the goal of maintaining reliability and market efficiency



The ISO is a Balancing Authority (BA)

The Western Interconnection is made up of nearly 40 Balancing Authority Areas (BAAs)

For more information about other BAAs, visit the WECC website



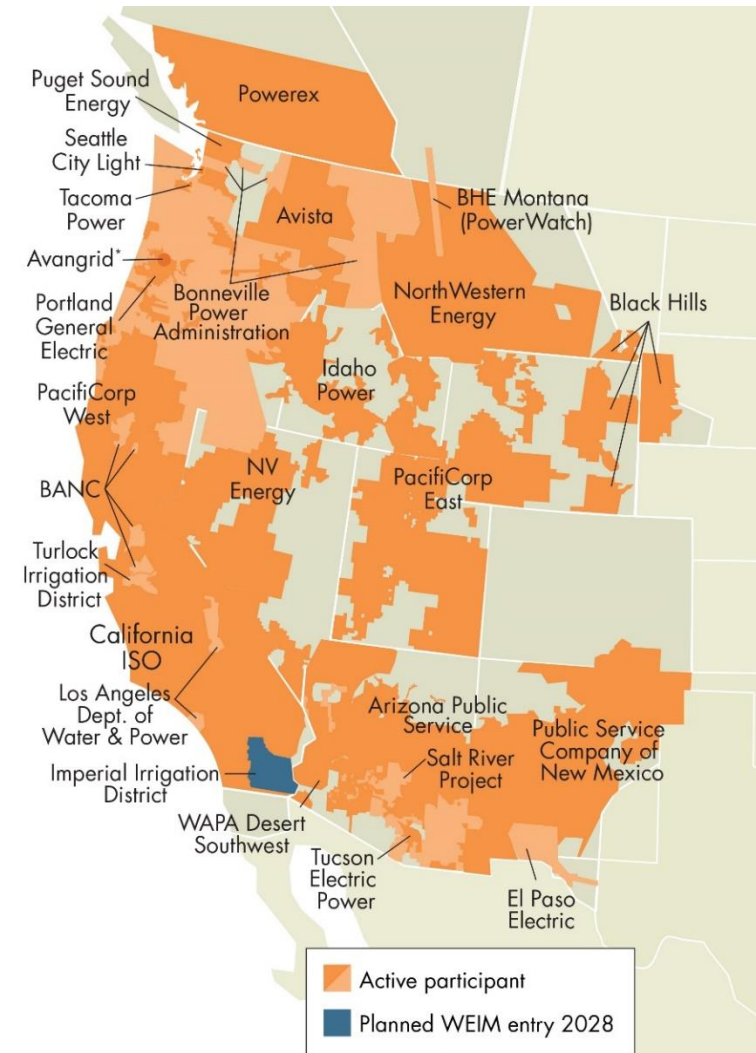
Each BA is responsible for:

- reliably planning and operating an area of the high voltage grid
- instantaneously matching generation with load inside its borders
- meeting import and export obligations

Western Energy Imbalance Market (WEIM)

Since its launch in 2014, the WEIM has enhanced grid reliability, generated billions of dollars in benefits for participants, and improved the integration of renewable energy resources.

- 24 participating entities
- Gross benefits over \$8.6 billion
- Reduced over 1 million metric tons of CO₂ emissions

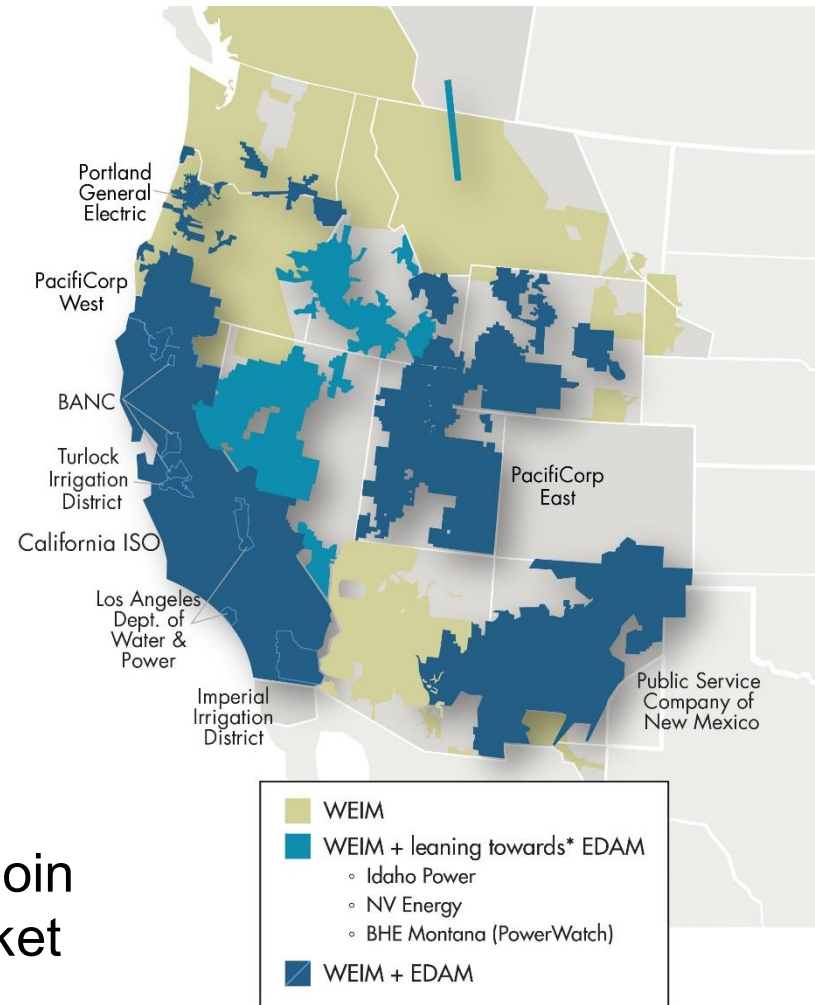


*Avangrid office; generation only BAA with distribution across multiple states.
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Extended Day Ahead Market (EDAM)

EDAM is a voluntary day-ahead electricity market designed to deliver reliability, economic, and environmental benefits to utilities throughout the West. Building on the success of the Western Energy Imbalance Market, EDAM increases regional coordination, supports state policy goals, and meets demand cost-effectively.

- Market launched May 1, 2026
- Seven entities committed to join
- Three additional entities signal intent to join or prefer EDAM for their day-ahead market



**These entities have publicly indicated a leaning towards EDAM as their preferred day-ahead market. Map boundaries are approximate and for illustrative purposes only. Copyright ©2026 California ISO*

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May 26, 2026

The West-wide Governance Pathways Initiative

Tribal Energy & Climate Collaborative

Andrew Valainis, Senior Associate
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RAP

About RAP

Regulatory Assistance Project (RAP)[®] is an independent, global NGO advancing policy innovation and thought leadership within the energy community.

Learn more about our work at raponline.org

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An aerial photograph showing a large array of solar panels installed on a roof. The panels are arranged in a grid pattern, with some sections appearing in shades of blue and others in a more orange-brown hue, possibly due to different panel types or lighting. A dark blue rectangular box is overlaid on the left side of the image, containing white text. A thin vertical yellow and orange bar is on the far left edge of the blue box.

Early Days: Regulators Call for a Market with Maximum Consumer Benefits

The Regulators Letter – July 14, 2023

- Consumers will benefit most from the broadest possible market footprint that includes California
- Independent regional governance is required to build the broadest footprint
- Each participating State's policies must be respected by the governance that results

The Pathways Initiative is Launched

- Interested stakeholders volunteer to organize and build the Pathways Initiative
 - Broad sectoral representation
 - Broad geographic representation
- A Launch Committee is formed
 - Voting members
 - Non-voting members
- Broader Stakeholder engagement process established
 - Monthly cadence to start
 - Workgroups established as discrete tasks emerge

An aerial photograph of a large stadium, likely the Allianz Arena in Munich, Germany. The stadium's roof is a prominent feature, composed of large, rectangular panels in shades of blue and orange. The surrounding area includes some greenery and other buildings, though they are less distinct than the stadium itself.

Creation of a Stakeholder Driven Launch Committee

Launch Committee Mission

The Mission of the Launch Committee of the WWGPI (Committee) is to develop and form a new and independent entity with an **independent governance structure** that is capable of overseeing an expansive suite of West-wide wholesale electricity markets and related functions based on the following core principles:

- The entity should enable the **largest footprint possible that includes California**, and maximizes overall consumer benefits;
- The entity will include **independent governance** for all market operations;
- The new entity will **preserve and build upon existing CAISO market structures** that serve over 80% of the Western Interconnection, including the Western Energy Imbalance Market (WEIM) and the Extended Day Ahead Market (EDAM);
- A primary goal will be to **minimize duplication and incurrence of costs** for both the market operator and market participants; and
- The structure should be flexible to accommodate the future voluntary provisions of **full regional transmission organization (RTO) services** for those entities that desire to do so, but not mandate that any entity must join such a future potential RTO.

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Evaluation Criteria

1. **Maximized net benefits**, including reliability, affordability and environmental benefits, recognizing startup and ongoing costs, and considering both new benefits and impacts on existing benefits.
2. **Equitable representation** across the Western region and among all market participants, including for a wide range of legal entities.
3. **A governance structure** independent of any single state, participant, or class of participants.
4. **Organizational flexibility** to accommodate future expansion of regional solutions and to create a credible and timely path to a voluntary RTO, including the balancing authority and transmission planning functions.
5. **Optionality** to allow market participants to choose the market services they value.
6. **Preservation** of existing balancing authorities' ability to maintain independence, authority, and governance.
7. **An implementation timeline** that promotes broad market participation.
8. ***Respect for state authority to set procurement, environmental, reliability and other public interest policies.***

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Pathways Initiative

Stepwise Process

Step 1

Elevate WEIM/EDAM Governing Body authority in the governance of existing CAISO energy markets

Step 2

Transfer governance authority over existing energy markets from CAISO to a new Regional Organization

Step 3

Continue expanding the scope of regionalized functions and services offered by the Regional Organization

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Launch Committee **UPDATE** May 2026

- Launch Committee continues to meet with Step 2 still in Process
- Step 2 achievements:
 - CA Legislation Passed in 2025 to allow an Independent Entity
 - Regional Organization for Western Energy (ROWE) established as 501(c)(3) in 2026 to serve as the regional independent entity
 - A Nomination Committee is working with a search firm to seat the ROWE Board, hopefully in summer of 2026



The Step 1 Proposal

Step 1 elevates the WEM Governing Body's Joint Authority with the ISO Board to Primary Authority

Initial Decisions

WEM Governing Body makes the initial decision on proposals resulting from the stakeholder process if they fall within its decision-making scope (meets the existing “apply to” test)

Dual Filings

Unresolved disputes over tariff changes between WEM Governing Body and the ISO Board require the ISO to use Section 205 filing rights to present both proposals, without preference, to FERC for decision

Public Interest

Additional provisions in the Charter for WEIM and EDAM Governance focused on consumer interests and preservation of state and local authority

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Trigger for Implementation

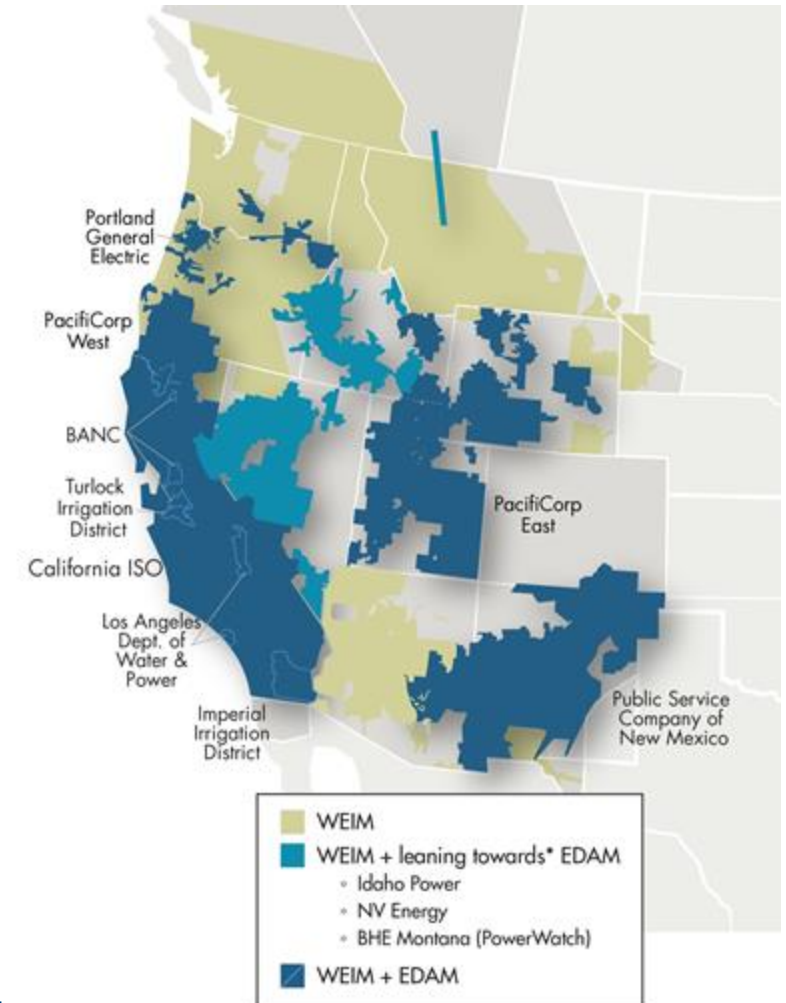
Step 1 would only take effect when the following criteria are met:

1. Execution of EDAM implementation agreements by utilities representing load equal to or greater than 70% of ISO's load, and
2. At least one new participant from both the NW and from the SW, beyond PacifiCorp, BANC, and LADWP

Purpose of the trigger:

To ensure that Step 1 expands the geographic footprint of EDAM to accelerate the benefits of greater regional coordination.

This slide used with permission from Kathleen Staks, Co-Chair, WWGPI Launch Committee & the CA ISO (*image updated)



*These entities have publicly indicated a leaning towards EDAM as their preferred day-ahead market. Map boundaries are approximate and for illustrative purposes only. Copyright ©2026 California ISO

Current Step 1 Implementation Status

- On November 22, 2024, CAISO submitted a tariff amendment to FERC that would implement the governance change once the trigger is met.
- PacifiCorp, Portland General Electric, and the Balancing Authority of Northern California have signed implementation agreements, which represent approximately 45.4% of CAISO's load.
- The Los Angeles Board of Water and Power Commissioners has approved the Los Angeles Department of Water and Power's participation in EDAM and is likely to sign an implementation agreement in the near future.
- Other utilities that have expressed a leaning or intent to join EDAM include: Idaho Power, NV Energy, BHE Montana, and Public Service of New Mexico

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Step 1 **UPDATE** May 2026

- Step 1 expansion of WEIM Governing Body Authority approved by FERC in 2025
- Commitments to EDAM to date include:
 - As noted on previous slide: PacifiCorp, Portland General Electric, and BANC
 - Additional announcements to date: LADWP, Turlock Irrigation District, Imperial Irrigation District, Nevada Energy, BHE, Black Hills, Public Service New Mexico and WAPA Southwest entities
 - Potential commitments: Idaho Power, Seattle City Light



The Step 2 Proposal

Pathways Expands Regional Coordination in Energy Markets But Leaves Other CAISO Functions Untouched



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Independence of the Regional Organization

Regional Organization

Independent Board

Tariff:

- Sole 205 Filing Rights
- Sole authority over provisions related to WEIM and EDAM

Staffing:

- RO dedicated staff
- Advisory input into VP selections that oversee market policies

Organizational:

- Independent RO Board
 - Ultimate authority over market-related BPMs
 - Separate & independent legal entity
- Regular evaluations of CAISO contract performance
- Independent Market Monitor joint reporting structure
- Ability to add voluntary market services for Western entities who request them

Stakeholder Process & Public Interest:

- RO led, market operator supported stakeholder process
 - Body of State Regulators
 - Independent Consumer Advocate Organization
 - RO Office of Public Participation
- RO Market Expert expanded scope to include public interest

RO Formation

- 501(c)(3) nonprofit corporation
 - Tax exempt status to lower costs and the ability to utilize tax-exempt financing for long term debt.
 - Operates for the public benefit and is prohibited from lobbying and engaging in political activities.
- Incorporated in Delaware
 - Well-developed body of corporate law, knowledgeable judges, and permissive rather than prescriptive corporate formation and operation.
- Principal Place of Business - TBD by RO Board
 - Strong consideration to Folsom, CA to capitalize on the benefits of locating near the Market Operator.
 - Board meetings would rotate among the market-participating states

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RO Governance

- Independent seven-member Board that exercises sole authority over the WEIM and the EDAM
- No reserved seats, no restriction on the number of current WEM Governing Body members serving on RO Board - interested members will move directly to Nomination Process
- RO Board Public Policy Committee
- Open process for meetings/decision making
- RO Board and CAISO Board have collaborative relationship; joint meetings for joint authority matters, each Board meets separately for sole authority issues

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Defining the Public Interest

Two intertwined components:

- 1) How customer interests, including affordability and reliability, are safeguarded in non-discriminatory market design and operations; and
- 2) How state and local policies, even as they differ across the West, are respected in market design.

These served as the focus and definition of “public interest” for the Launch Committee and were used to ensure that the Step 2 proposal incorporates public interest protections holistically across the new RO’s structure and processes.

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Tools to Enhance Public Interest Protections

RO Structure and Board:

- Corporate obligation to respect state authority to set procurement, environmental, reliability, and other public interest policies
- Public Policy Committee – engage with states, local power authorities, federal power marketing administrations about potential impacts to state, local, or federal policies before final board adoption of a tariff change

RO BOSR:

- Transition WEM BOSR to RO BOSR
- Shift funding to tariff

Consumer Advocate Organization:

- Enable creation of independent organization to facilitate engagement by state consumer advocate offices funded through the tariff

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Tools to Enhance Public Interest Protections

Office of Public Participation:

- Create a department in the RO to facilitate information and education to members of the public about issues and initiatives at the RO, including facilitating engagement in those processes

Independent Market Monitoring Functions:

- Transition WEM market monitoring functions to RO and create joint oversight structures with CAISO Board where appropriate
- Support data sharing with appropriate confidentiality protections from Market Monitor to state commissions and consumer advocates

Stakeholder Process:

- Enhanced stakeholder engagement opportunities

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Elements of the Stakeholder Process

- Stakeholder Representatives Committee (SRC)
- SRC Sectors and Voting
- Classification of Stakeholder Initiatives
- Stakeholder Process:
 1. Issue Identification and Prioritization
 2. Stakeholder Phase:
 - Stage 1 – Issue Evaluation
 - Stage 2 – Policy Development
 3. Approval by the RO Board
- Voting

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Next Steps: The Formation Committee

Formation Committee

- This sets the stage for further develop and **implementation** of Step 2, in coordination with the CAISO, WEM Governing Body, and stakeholders
- The Launch Committee will delegate implementation to the Formation Committee and oversee the activities required to advance this process
- The Formation Committee will focus its work in three stages:
 - Preparation activities prior to California legislation enactment,
 - Implementation activities after California legislation enactment/before seating RO Board, and
 - Implementation activities after California legislation enactment and after seating RO Board
- A sub-committee of the Launch Committee consisting of up to 10 members, representing a diversity of sectors, and
 - Assisted by a less than quorum of the WEM Governing Body and CAISO Board of Governors serving as liaisons
 - BOSR or state regulator representative

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Step 2 and Formation Board **UPDATE** May 2026

- Activities right now
 - ROWE Board Search in process
 - Formation Committee and Launch Committee preparing a briefing book for ROWE Board. Will include, for example:
 - Office of Public Policy (OPP) structure in process (including outreach to tribes)
 - Stakeholder Representatives Committee (SRC) proposal
 - Launch Committee observing Non-CA EDAM Entities Resource Adequacy proposal preparation
- Coming summer/fall 2026
 - Selection, Confirmation and Seating of ROWE Board
 - ROWE Board commences hiring and Operations
 - ROWE Agenda: review and evaluation of the briefing book
- Coming following ROWE Board Seating
 - Establish formal governance and establish tariffs
 - Active engagement with SRC, OPP, BOSR



ROWE Update

TECC –X Meeting

May 26, 2026 10-Noon PT

Alaine Ginocchio, Governance Consultant,
Western Resource Advocates

Perspective

- Have been engaged in regional organization governance and stakeholder process development in the West for over a decade (WIEB, WRA)
- Currently, representing WRA in the Pathways Initiative:
 - Launch Committee
 - Formation Committee
 - Office of Public Participation Working Group
 - Tribal Engagement Working Group
 - Stakeholder Process Working Group (re-engage in Summer)

Questions

Questions I was asked to cover:

- Why does ROWE matter to California Native Tribes? What changes will take place when the ROWE assumes authority over the WIEM and EDAM market rules?
- How can Tribes meaningfully participate as stakeholders in the development of the ROWE, especially ensuring their energy needs and jurisdictional interests are considered and supported?
- What factors should Tribes consider in their energy and land-use planning processes to prepare for the transition to the ROWE?

Some level setting has been incorporated into the answers.



Terminology

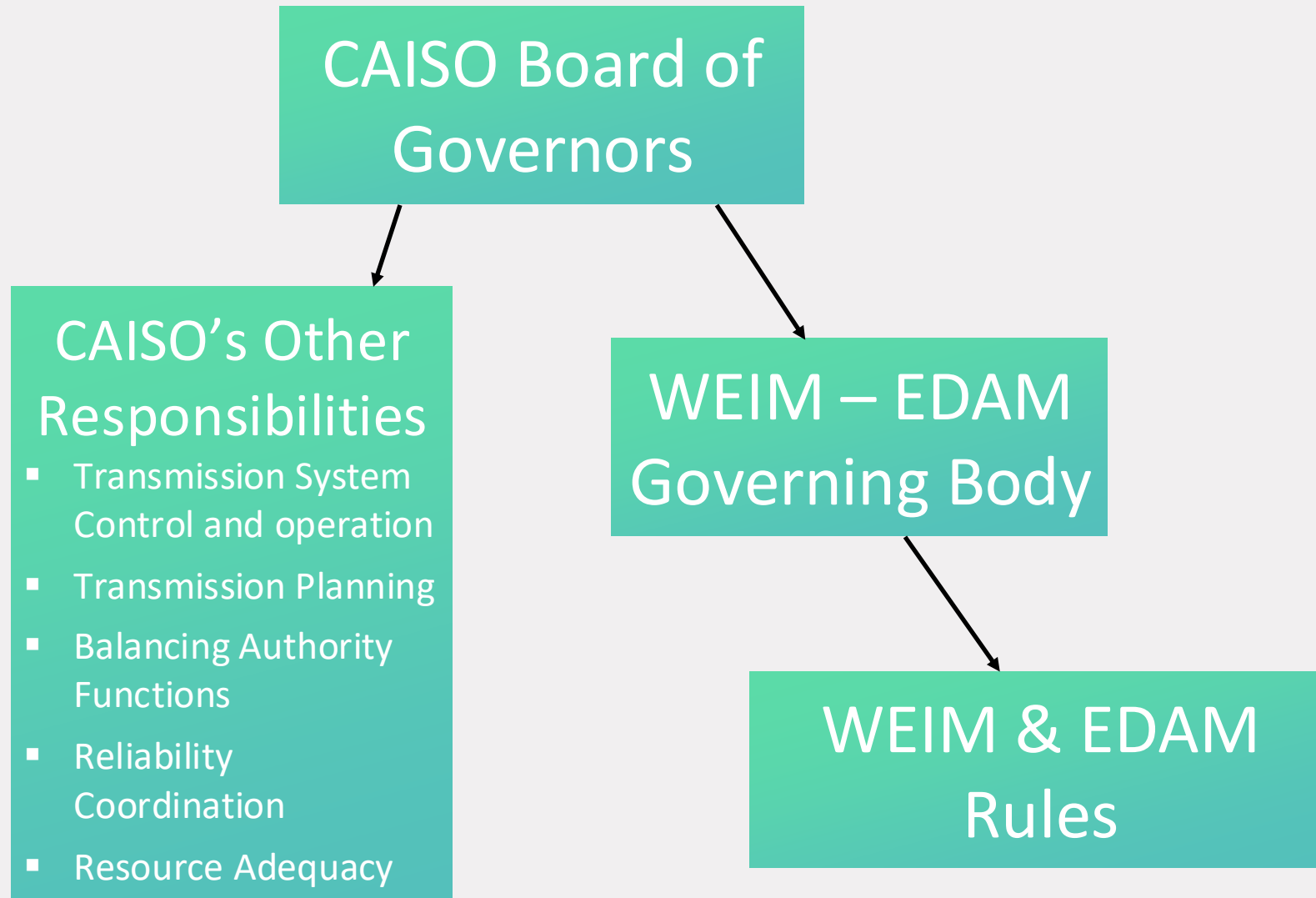
- **ROWE:** a legal corporation that will oversee the WEIM and EDAM rules as early as 2028.
- **Pathways Initiative:** a group of volunteers who developed the Final Proposal for the ROWE governance through a 2+ year open and transparent stakeholder process and are now turning the 162-page proposal into draft policies. (*More on this later.*)
- All draft policies developed by the Pathways Initiative volunteers must be approved by the ROWE Board after it is established (expected Fall 2026).
- **EDAM and WEIM:** wholesale energy markets operated by CAISO with voluntary regional participation. Both already have FERC approved tariffs; both are up and running.
- When oversight authority of the WEIM and EDAM tariffs is transferred to the ROWE, any changes to those tariffs will be overseen by the ROWE; CAISO will continue to operate the markets.

Pathways Expands Regional Coordination in Energy Markets But Leaves Other CAISO Functions Untouched

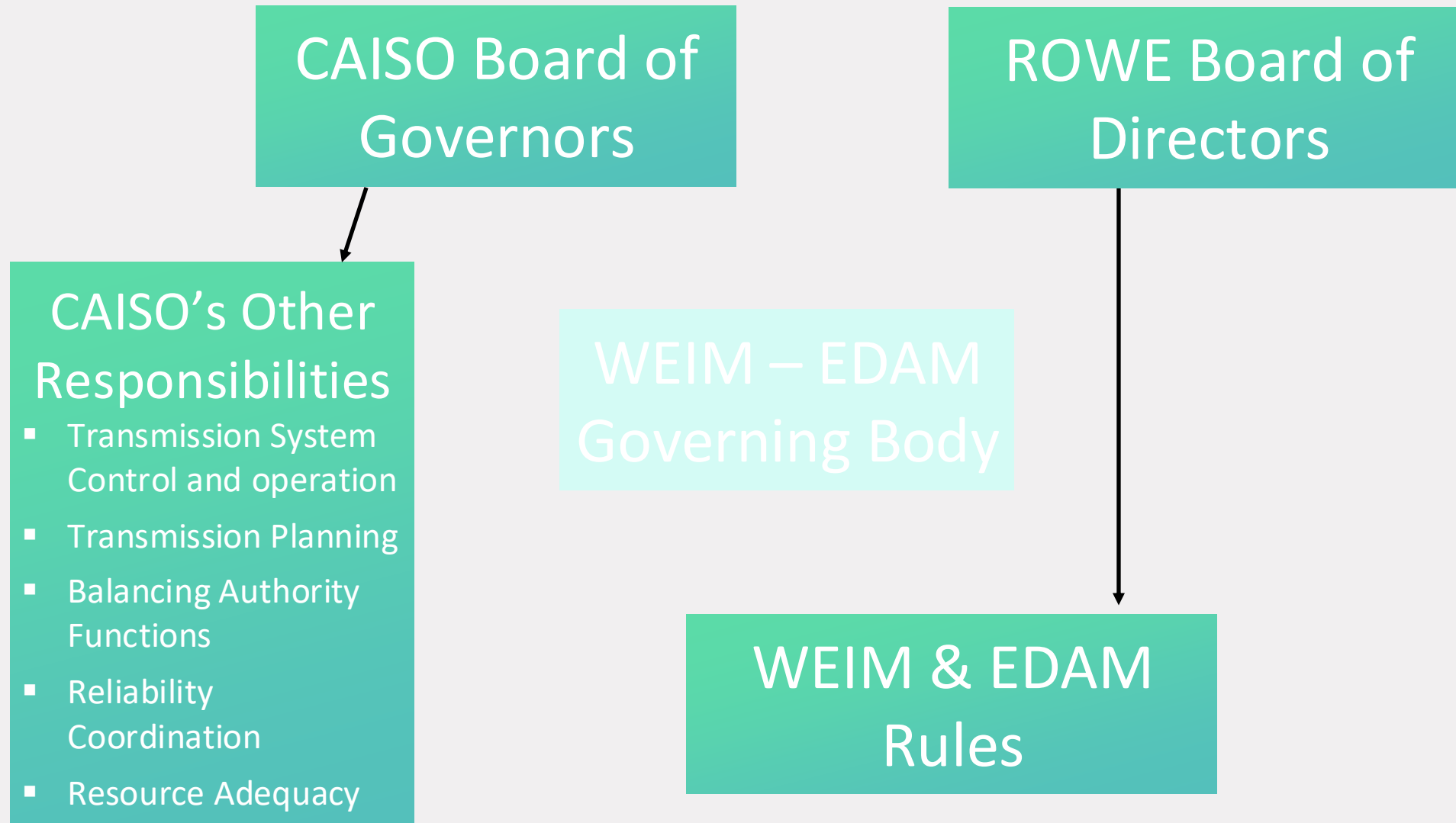


* From Pathways Initiative Slide Deck

WEIM EDAM Governance Today



WEIM EDAM Governance after Transfer of Authority to ROWE



What does not Change

- **Transmission planning** will not change when the ROWE assumes authority over the WEIM and EDAM rules and will continue that way unless and until the ROWE participants want the ROWE to offer this service (and participation would be voluntary)
- **Resource Adequacy, including interconnection processes**, will not change unless and until the ROWE participants want the ROWE to offer this service (and participation would be voluntary)
- “Will not change” means the ROWE will not impact how these services are planned, approved and implemented today.
- Information from the markets can help identify resource needs, like transmission.



Opportunity Now

- The ROWE Board nomination process is underway.
- The position description is available at:
<https://www.leadershiplyceum.com/rowe-2026-bod/>
- Deadline for applications is **June 30, 2026**.
- Diversity is a core principle.
- **Socialize the position description to qualified candidates.**

Participating in Policy Development Now



- The Pathways Launch Committee is turning the 162-page ROWE Governance proposal into draft policies (which will be approved by the ROWE Board).
- Open and transparent process. Draft policies are posted on the Pathways webpage and explained and discussed at a public meeting, and stakeholders are provided the opportunity to submit written comments which are posted on the webpage.
- Examples of Policies in development: Office of Public Participation, Stakeholder Process
- **Attend public meetings and submit written comments.**
 - Regular Public meeting 4th Friday of each month:
<https://www.westernenergyboard.org/wwgpi/>.
 - Send a request to get on the Stakeholder Distribution List for all notices of meetings, posted documents and other announcements:
Pathways@WestWidePathwaysInitiative.org

ROWE Governance Structure

❖ Core of Governance Structure

- ❑ **Board**
- ❑ **Stakeholder Process (sectors and committees)**
- ❑ **States Committee**

❖ ROWE add-ons

- ❑ **Office of Public Participation (OPP):** facilitate engagement by providing neutral information and education to the public about issues and initiatives at the ROWE, including engagement in the process.
- ❑ **Office of Consumer Advocates (OCA):** facilitate engagement by each consumer advocate office authorized by state law in the stakeholder process and other ROWE engagement
- ❑ **Public Policy Committee of the ROWE Board:** to collect input from states, local power authorities, and federal power marketing administrations about potential impacts to state, local, or federal policies



ROWE Governance Structure: PIO Perspective

- **Equitable Balancing of Interests: Voices not drowned out via process or structural elements**
 - Appropriate sector definitions (no “every one else” sector)
 - No fees required to fully participate, e.g., participate on committees and vote
 - Substitutes permitted and no strict attendance rules
 - Voting that provides a fair voice
 - Support to facilitate engagement by all (e.g., staff support, OPP)
- **Suite of Public Interest Protections Unique and Important**
 - Tensions can arise ensuring that wholesale markets are responsive to participants and also adequately consider the larger public interests, such as, long-term grid reliability, environmental impacts, and economic interests of smaller- or non- participants.

Pathways Tribal Engagement Working Group



- **Purpose:** Assess the ROWE's processes for accessibility and meaningful opportunities for tribal participation. The ultimate goal is to develop a tribal engagement plan for the ROWE which can include recommendations for improvements to both the proposed organizational structure and stakeholder processes if necessary.
- **Examples of questions for tribes to consider:**
 - Leadership level: Are States' Committees a good fit? What are other options?
 - For stakeholder processes that are organized by sectors: Participate in current sectors? Include specific tribal sector? Both?
 - Modifications to structure: Does the traditional structure provide appropriate or sufficient options?



Thank You

Questions

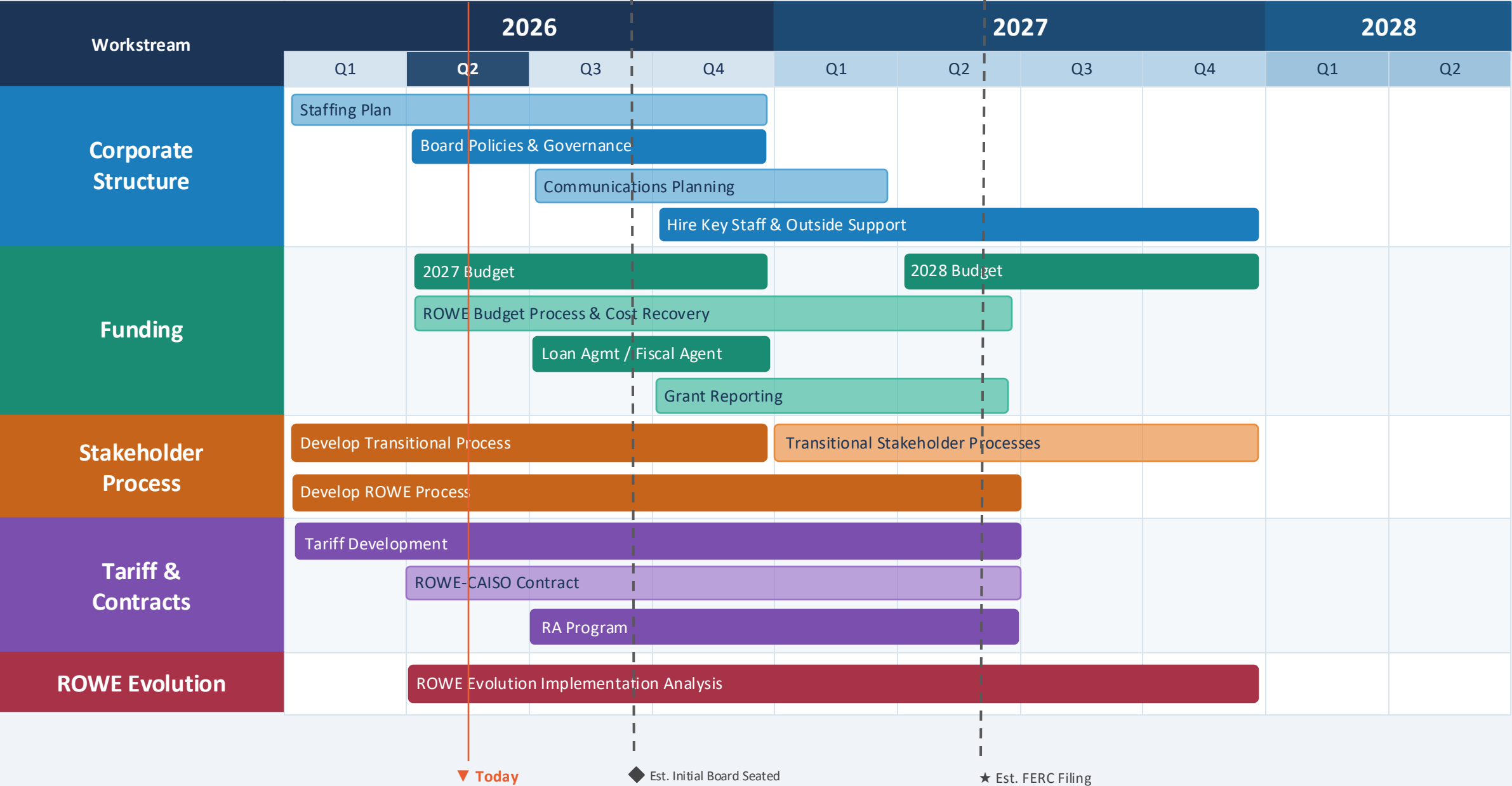
Stakeholder Process: Sectors



ROWE Sectors*			
1. EDAM Entities (BAs participating in CAISO's day-ahead market) 2. WEIM Entities (BAs participating in CAISO's energy imbalance market) 3. ISO Participating Transmission Owners 4. Non-IOU load serving entities serving load from WEIM or EDAM 5. Public Interest Organizations 6. Consumer Advocates 7. Large and Commercial & Industrial Consumers 8. IPPs, independent transmission developers, and marketers 9. Distributed Energy Resources			
* Sector definitions found in Step 2 Final Proposal , pp.91-93.			

ROWE Implementation Swimlanes

Parallel workstreams · Q1 2026 – Q2 2028





Q&A