

# CALFLEXHUB SYMPOSIUM

SEPTEMBER 24 | 8am-6pm PT



ANDREW MCALLISTER



MARY ANN PIETTE



RAM NARAYANAMURTHY



SVEN MUMME



ACHINTYA MADURRI

**KEYNOTE SPEAKERS:** Andrew McAllister, Commissioner, California Energy Commission;

Mary Ann Piette, Associate Lab Director, Berkeley Lab;

Ram Narayanamurthy, Deputy Director, Building Technologies Office, U.S. Department of Energy;

Sven Mumme, Supervisor and Technology Manager, U.S. Department of Energy;

Achintya Madurri, Senior Regulatory Analyst, CPUC



2024





California Public  
Utilities Commission

# Demand Flexibility Rulemaking (R. 22-07-005) and the Regulatory Roadmap for Dynamic Rates

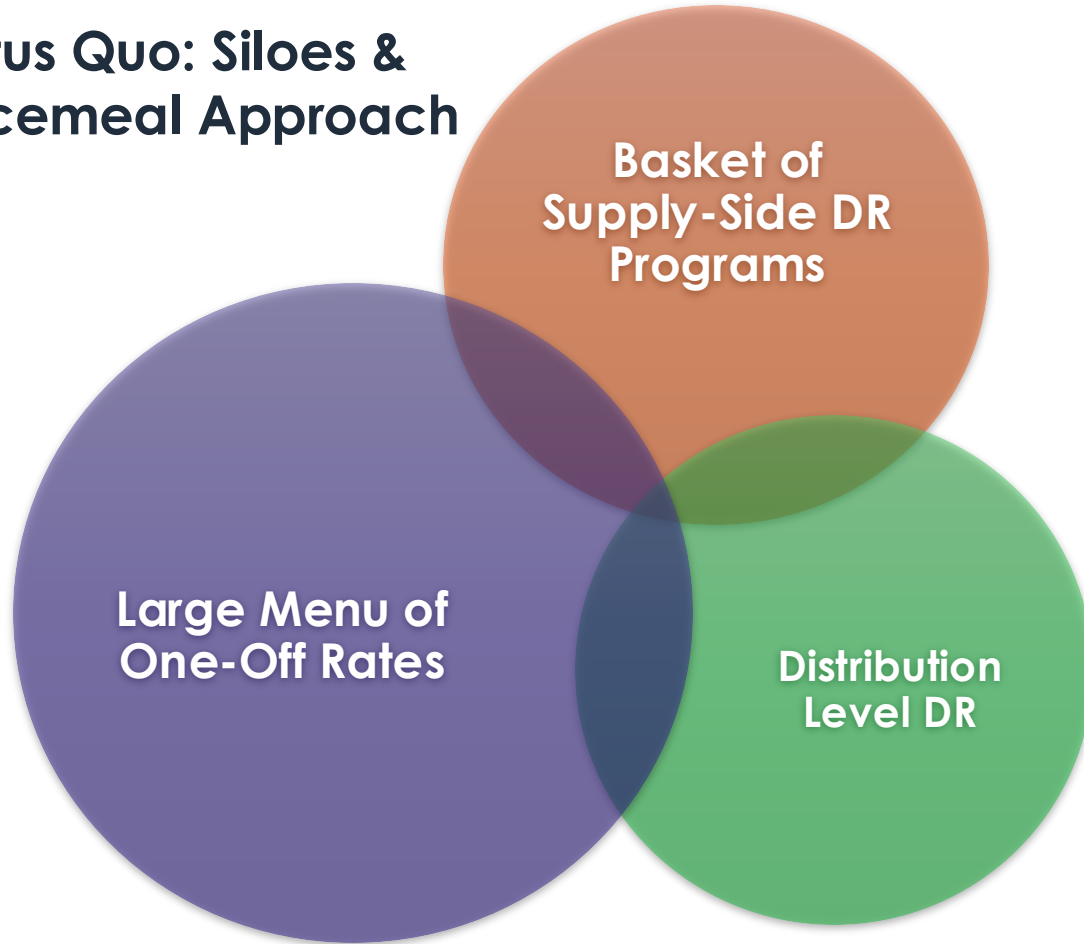
**Achintya Madduri, PhD**

Senior Analyst | Retail Rates | Energy Division | California Public Utilities Commission



# Motivation for Dynamic Retail Rates

Status Quo: Siloes & Piecemeal Approach

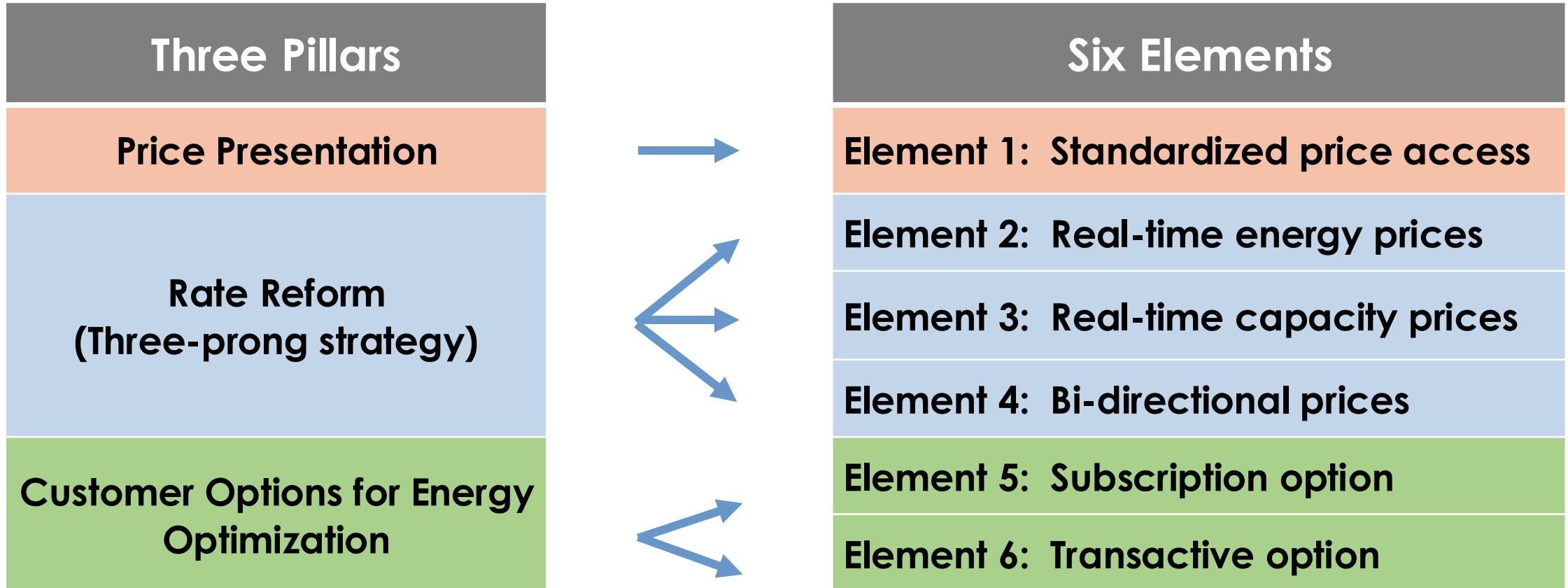


Innovation: Integration, Automation, Pricing, & DER Compensation

**California Flexible Unified Signal for Energy (CalFUSE)**

- Reduced complexity, single point focus
- Highly-scalable, widespread adoption
- Reduced cost of controls and automation

# Energy Division's "CalFUSE" Framework: California's Flexible Unified Signal for Energy



# Demand Flexibility OIR (R.22-07-005)

## Summary and Goals of Phase 1 (Track B)

- 1. Develop policies to achieve widespread customer adoption of automated demand flexibility solutions throughout the state**
  - Guidelines for Rate Design of Dynamic Retail Rates
  - Systems and Processes necessary for both bundled and unbundled customers:
    - E.g., Systems needed for access to prices and responding to price signals, such as computation of dynamic electricity prices, billing, and settlement
- 2. Ensure IOUs comply with CEC's adopted Load Management Standards (LMS) Amendments for dynamic marginal cost-based hourly rates**



# Regulatory Timeline for Dynamic Retail Rates in CA

Date	Milestone
December 2021	<p><b>Initial CalFUSE pilots approved for SCE and Valley Clean Energy/PG&amp;E (<a href="#">D.21-12-015</a>)</b></p> <ul style="list-style-type: none"> <li>• Agricultural pumping pilot for Valley Clean Energy CCA customers.</li> <li>• Commercial/Residential pilot for SCE customers.</li> </ul>
January 2024	<p><b>Expanded CalFUSE Pilots (2025-2028) approved (<a href="#">D.24-01-032</a>)</b></p> <ul style="list-style-type: none"> <li>• Ag pilot - PG&amp;E (50 MW enrollment target)</li> <li>• C&amp;I and Res Pilot – PG&amp;E (50 MW enrollment target)</li> <li>• C&amp;I and Res Pilot – SCE (50 WW enrollment target)</li> <li>• Pilots include eligibility for VGI (including submetering)</li> </ul>
October 2024	<p><b>PG&amp;E V2X Pilot (SB 676) Phase 2 (<a href="#">E-5192</a> &amp; <a href="#">E-5326</a>)</b></p> <ul style="list-style-type: none"> <li>• Export compensation for bidirectional EV charging on a CalFUSE rate for residential and commercial fleets</li> </ul>
2025	<p><b>Large IOUs submit applications for opt-in dynamic hourly rates in response to CEC LMS</b></p>
2027	<p><b>CEC Load Management Standards require that large IOUs and CCA offer dynamic hourly rates for all customer classes</b></p>
2030	<p><b>CEC’s adopted CA load shift goal – 7,000 MW</b></p>



## For More Information:

- [Staff Proposal on CalFUSE Framework](#)
- [Demand Flexibility Rulemaking](#)

**Contact:** [achintya.madduri@cpuc.ca.gov](mailto:achintya.madduri@cpuc.ca.gov)



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