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ASSOCIATION FOR
ENERGY AFFORDABILITY INC.

Senate Bill 49 Flexible Demand Appliance Standards

Amy Dryden

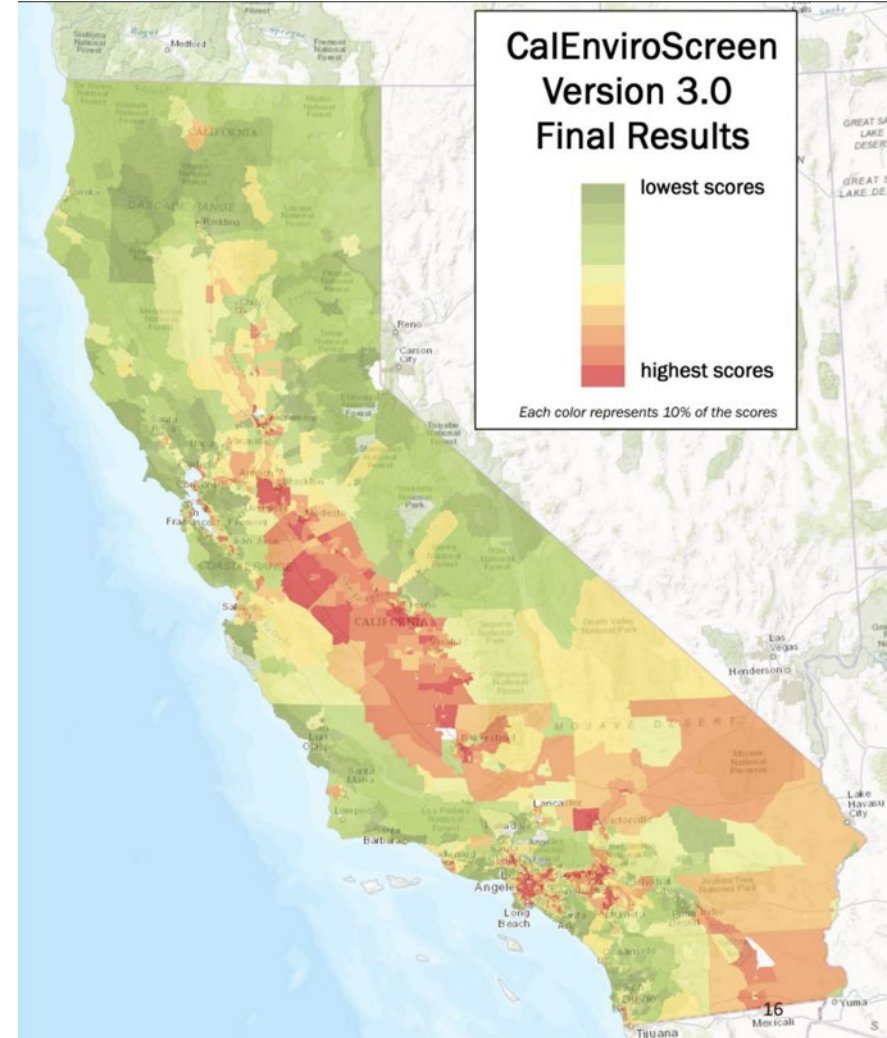
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Context: ESJ and DACs

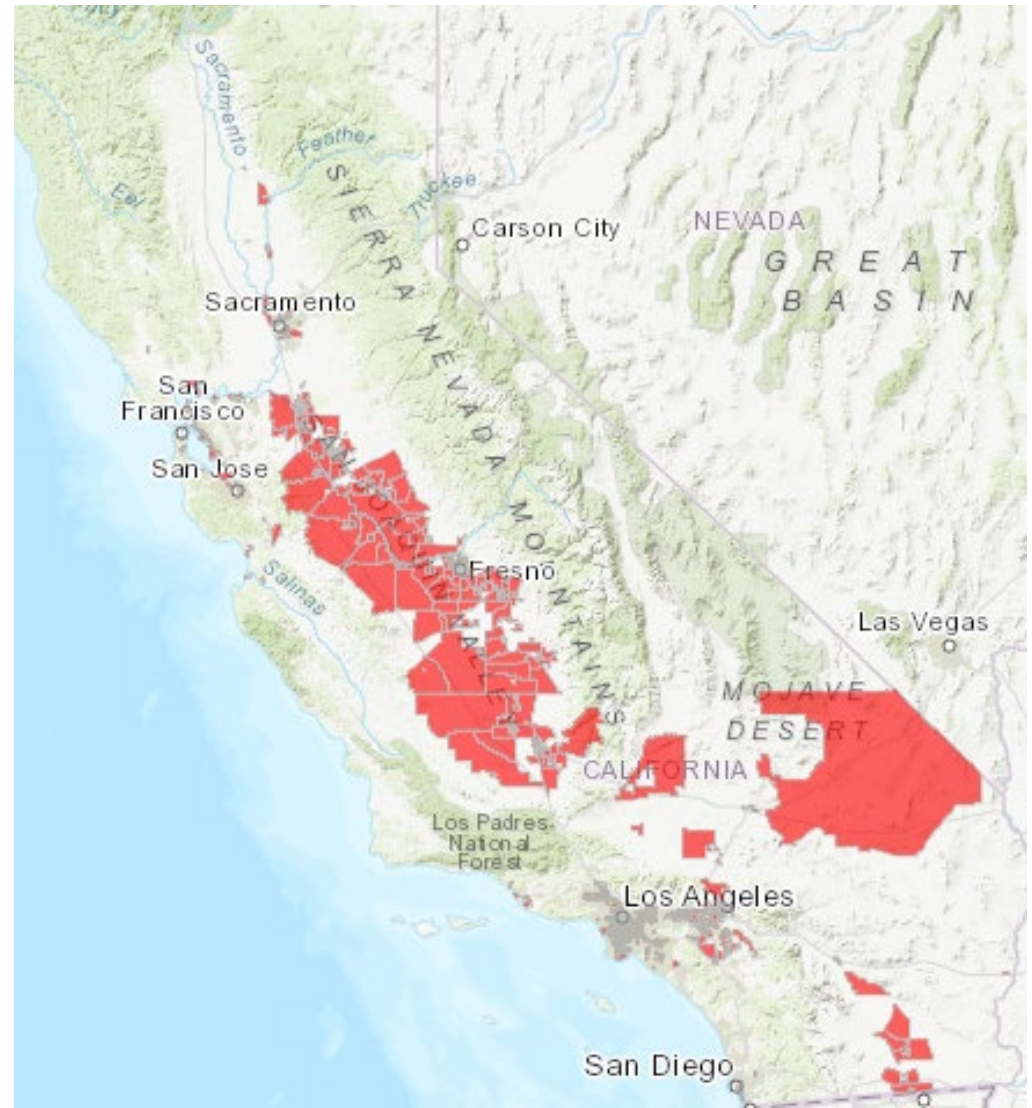
Environmental and Social Justice (ESJ)
Communities as communities where residents are:

- predominantly people of color or living on low incomes;
- underrepresented in the policy setting or decision-making process;
- subject to disproportionate impact from one or more environmental hazards, socio economic burden or both; and
- likely to experience disparate protections and benefits of environmental regulations and socioeconomic investments.



DACs

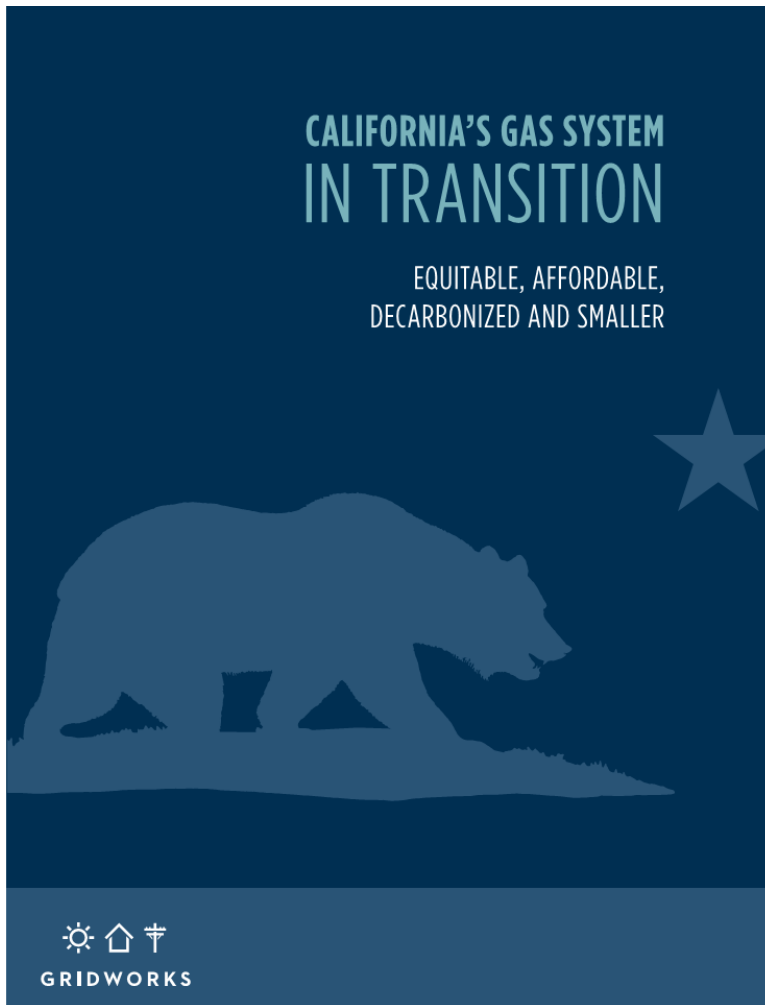
- 33% of California's are Low Income
- Approx 25% live within a DAC
- 26% of LI are owners and 74% are renters



CZ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	0%	1%	12%	9%	0%	11%	6%	36%	24%	29%	5%	18%	38%	7%	17%	1%



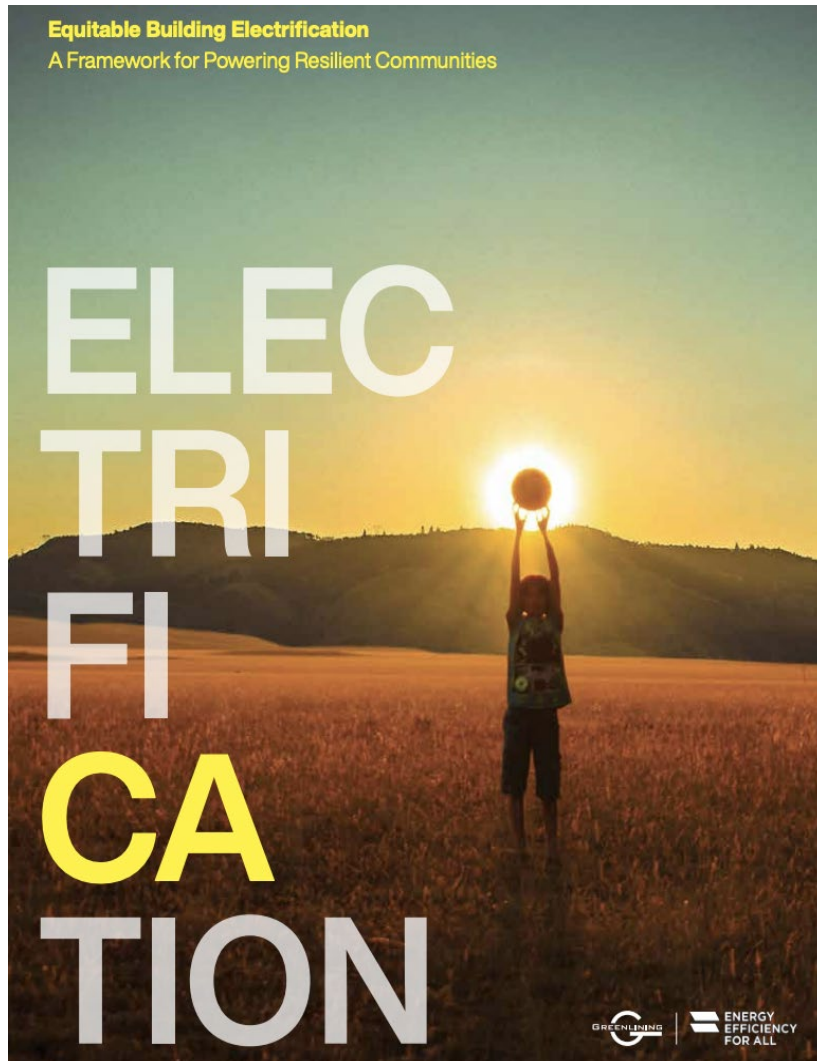
Framework: California's Gas System in Transition



- Comprehensive strategy to ensure LI are empowered and benefit
- Undertake barriers study for low – income electrification
- Bill Protections
- Develop programs to enable communities to electrify
- Aggregate resources to allow LI to layer efficiency, solar, storage, electrification
- Protections for renters



Framework: Equitable Building Electrification



Equitable transition—must focus on health and resilience of all people.

All communities must have the opportunity to shape and benefit from the policies

- Step 1: Assess the Communities' Needs.
- Step 2: Establish Community-Led Decision-Making.
- Step 3: Develop Metrics and a Plan for Tracking.
- Step 4: Ensure Funding and Program Leveraging.
- Step 5: Improve Outcomes.



Considerations – System and Home

Support Complimentary and Comprehensive Scope to Maximize Benefits

- Align criteria with replacement programs
- Layer with programs to provide EE, PV, and Storage
- Address conditions to increase benefits (i.e. envelope)
- Poor systems or envelopes squander preheating and precooling benefits
- Refine for Renters vs Owners

Understand Opportunities and Challenges with Loads

- Prioritize shiftable loads and acknowledge less shiftable loads
- LI see higher proportion of in-home cooking – hard to shift
- Larger households and increased hours of occupancy
- Understand different work schedules- early morning & evening peaks (e.g evening –peak showers)
- Limited number of household appliances in homes or not controllable
- MELs are growing load in homes and water heating is significant load

Define Service Standards

- Address customer satisfaction, reduction in GHGs and minimize energy costs
- Consider how to minimize unintended energy use in shed or post shed



Considerations –

Engage with All Stakeholder is Key

- Meet folks where they are at for Meaningful Engagement
- Work with local agencies with relationships
- Reach out to landlords
- Consider renter protections
- Address split incentives so renters benefit

Create Accessible Technology

- Wifi may be unreliable, low quality or nonexistent
- 50% of homes receiving HPWH did not have access to wifi
- Smart phones are access to internet

Support Education

- Bring benefits to residents in accessible manner
- Assist LI with TOU optimization to help with less shiftable loads



Thank you.

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