



**Precourt Energy  
Efficiency Center**  
STANFORD UNIVERSITY

# **California Climate Action Planning Conference Cal Poly**

Dian Grueneich

Senior Research Scholar

CPUC Commissioner Emeritus

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# CALIFORNIA CLIMATE STRATEGY

*An Integrated Plan for Addressing Climate Change*



## VISION

**Reducing Greenhouse Gas Emissions  
to 40% Below 1990 Levels by 2030**

## GOALS

**50%  
reduction  
in petroleum  
use in vehicles**

**Carbon  
sequestration  
in the land base**

**Safeguard  
California**



**50%  
renewable  
electricity**

**Double energy  
efficiency savings  
at existing buildings**

**Reduce  
short-lived  
climate pollutants**

# PRINCIPLES

Create jobs



Transform to a  
clean energy economy



Save water



Support vulnerable  
communities

Give consumers  
clean energy choices



Make California  
more resilient

# IMPLEMENTATION

## SCOPING PLAN

Climate  
Action Plans

SLCP Plan

Forest  
Carbon Plan

Cap and Trade  
Regulation

2040 CA  
Transportation Plan

## LEGISLATION

AB758 Energy  
Efficiency Plan

GGRF  
Investment Plan

Healthy Soils  
Action Plan

Other plans/regulations for renewables, efficiency, transportation, fuels

## BUILDING BLOCKS

Partnerships



Incentives



Voluntary Action



Local Action



Research



Grants

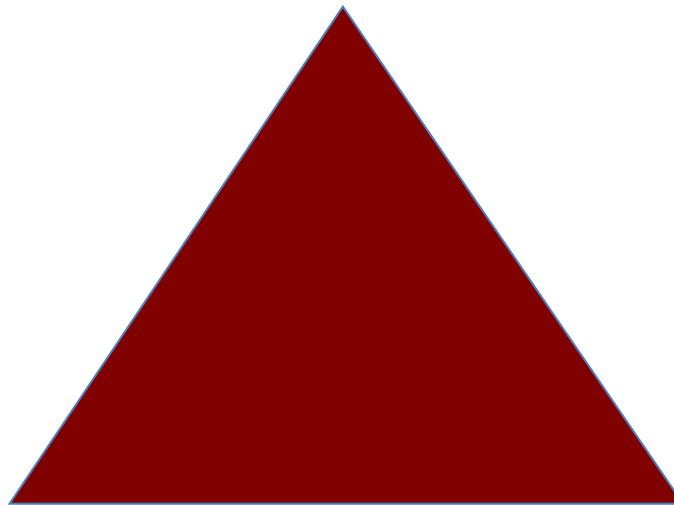


Regulations



# The 21<sup>st</sup> Century Energy System

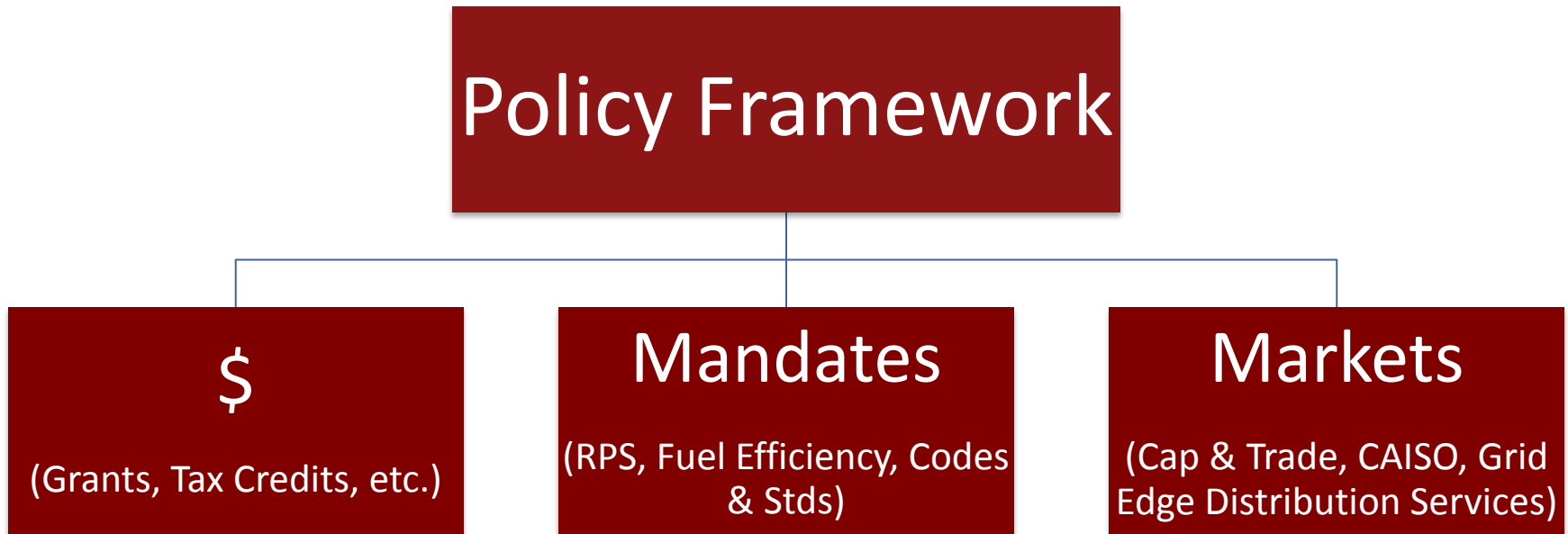
Sustainability



Affordability

Reliability

# Policy Framework



- **The Five Challenges Ahead (Published in Electricity Journal, Aug. 2015)**
  - Available at: [peec.stanford.edu](http://peec.stanford.edu)
- **An Updated Policy Framework (Fall 2015)**
- **New Tools and Opportunities (Winter 2015)**
- **Harnessing Market Forces (Winter 2015)**

For additional information visit:

[peec.stanford.edu/people/profiles/Dian\\_Grueneich.php](http://peec.stanford.edu/people/profiles/Dian_Grueneich.php)



# Bits & Watts & Us



A Stanford University & SLAC joint initiative to help develop the 21<sup>st</sup> century grid



# Problem Statement: Questions and Challenges

- How can we help decarbonize our electricity system & reduce costs?
- How can we help make our electricity system more resilient and secure?
- How can we offer solutions for access to affordable electricity?

# The Big Picture

- Local Governments Matter!
- Why - Leadership and Connection to Residents and Businesses
- We are All Creating New Paradigms
- Time is Short

# Thank You!

Dian Grueneich  
California PUC Commissioner Emeritus  
Senior Research Scholar  
Precourt Energy Efficiency Center  
Shultz-Stephenson Energy Policy Task Force  
[dgruenei@stanford.edu](mailto:dgruenei@stanford.edu)  
[peec.stanford.edu/people/profiles/Dian\\_Grueneich.php](http://peec.stanford.edu/people/profiles/Dian_Grueneich.php)