

# **AIA California Proposes: Mandatory Continuing Ed in Zero Net Carbon Design**

## **California Architects Board**

September 18, 2020 Meeting

### **William Leddy, FAIA**

AIA CA VP Climate Action + COTE Chair

### **Mark Christian, Honorary AIA CA**

AIA CA Director of Government Relations



**AIA**  
California



**AIA**  
California

# Mandatory Continuing Education: Zero Net Carbon Design – Why?

*In this time of unprecedented climate emergency  
California Climate Action can have a global impact*

# The Climate Emergency - it's all about the carbon

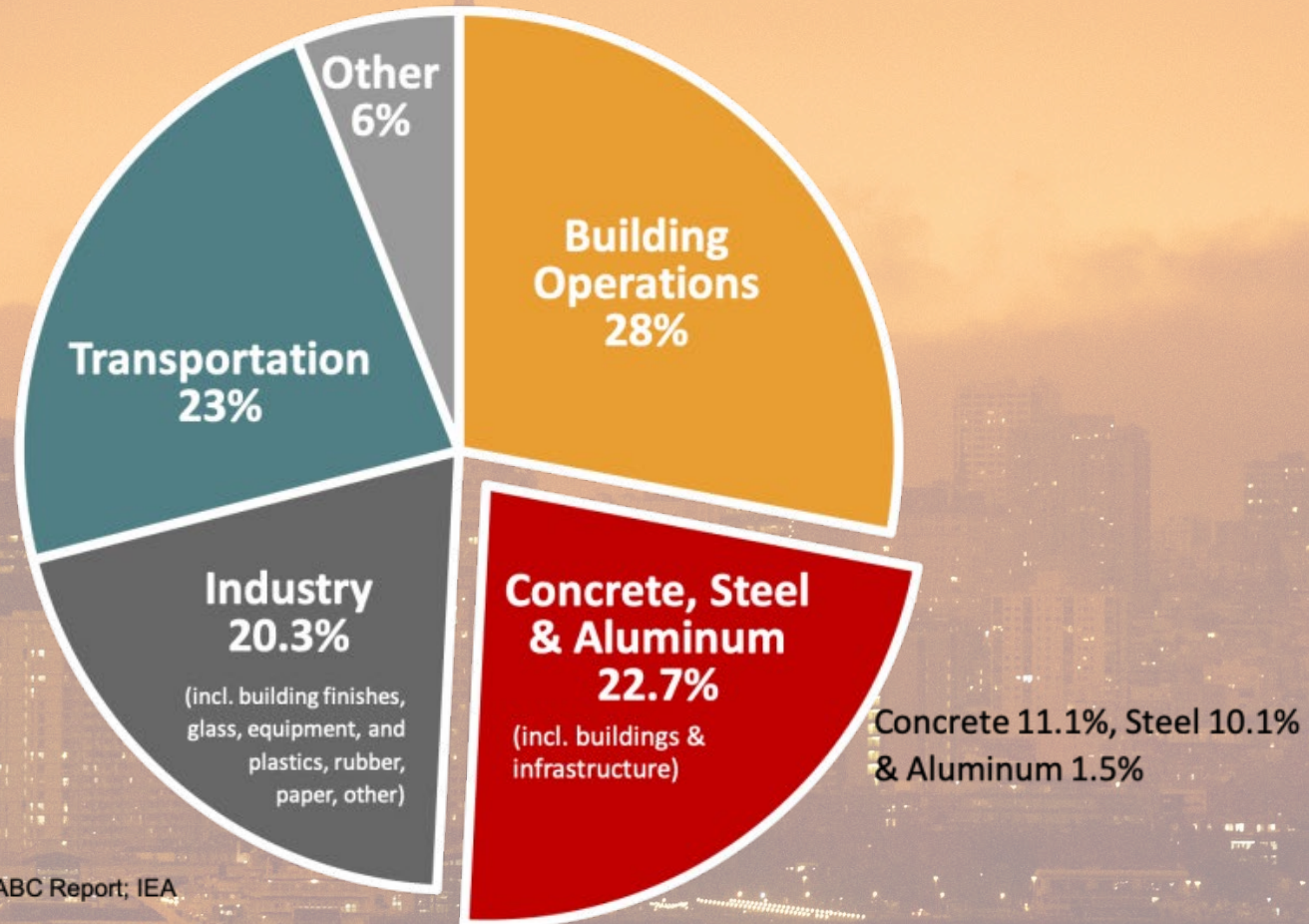


***“Our goals are inadequate to the reality we’re experiencing”***

*- Governor Gavin Newsom 9/11/20*

# Buildings pollute - they contribute >40% of global carbon emissions

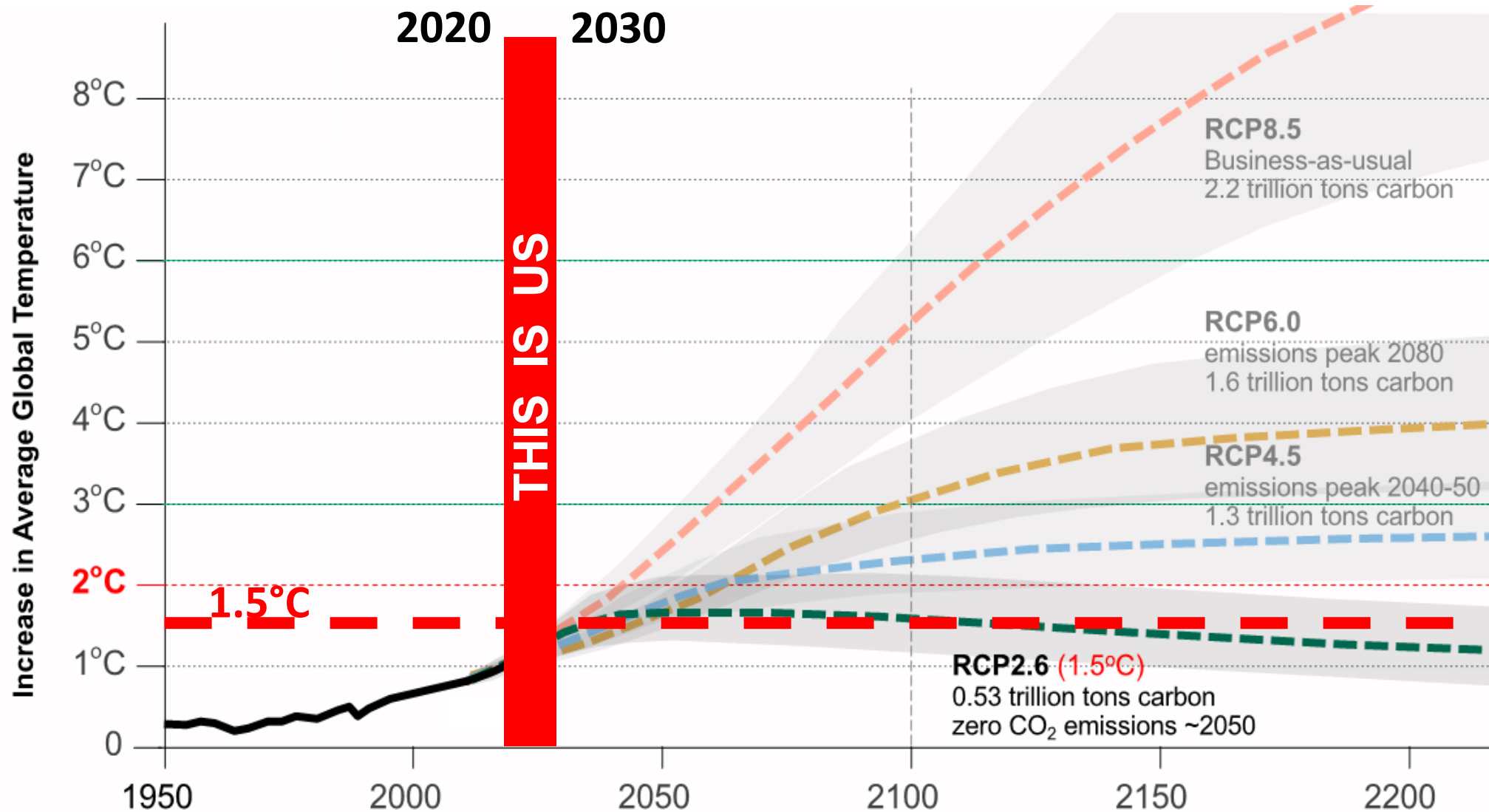
## Global CO<sub>2</sub> Emissions by Sector



Source:  
2018 Global ABC Report; IEA



# Time is short – we have only ten years



**Global Temperature Projections for various RCP Scenarios**

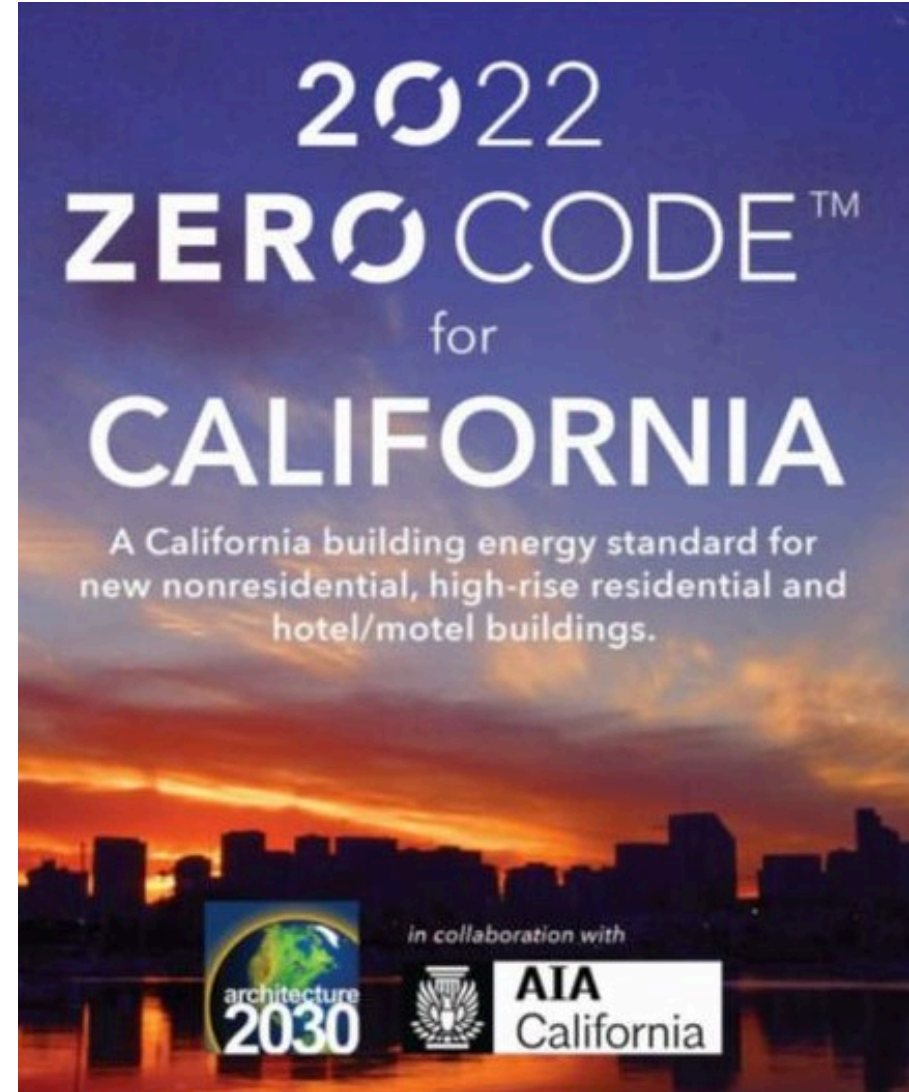
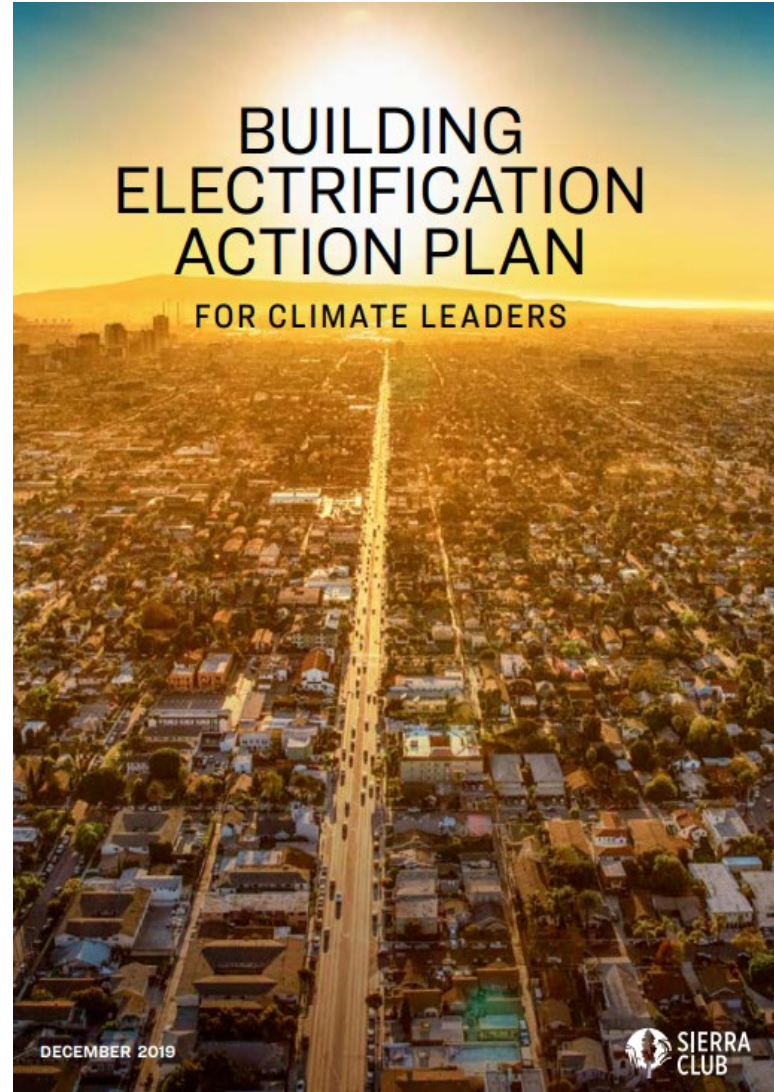
Source: Architecture 2030; Adapted from IPCC Fifth Assessment Report, 2013  
Representative Concentration Pathways (RCP), temperature projections for SRES scenarios and the RCPs.



**“Every building we touch over the next ten years needs to be brought to zero emissions in a way that is both cost-effective and supports decarbonization of the grid”**

Rocky Mountain Institute – December 2019

# Local and State Codes are changing



# Why is California Climate Action critical?

A world map with a light blue background and white landmasses. The state of California is highlighted in a solid red color. Three semi-transparent white text boxes are overlaid on the map, containing red text. The text boxes are positioned horizontally across the map, with the first two overlapping the North American continent and the third at the bottom.

**California is the world's 5<sup>th</sup> largest economy and a center of global innovation**

**The nation and the world are watching how we respond to climate change**

**As leaders in Climate Action, California can make a difference in the world**





**AIA**  
California

# Mandatory Continuing Education: Zero Net Carbon Design – How?

*Prepare the profession for a rapidly changing world*

*Protect the public's health, safety and welfare in a time  
of rapidly advancing climate destabilization*



**AIA**  
California

## Mandatory Continuing Ed Requirements Across the Nation\*

State / Territory	Total Hours	Requirement	Cycle	MCE hrs/year
Kansas	30	non-hsw ok	Biennial	15
South Dakota	30	24 HSW	Annual	15
Alabama	12	12 HSW	Annual	12
Alaska	24	24 HSW	Biennial	12
Arkansas	12	12 HSW	Annual	12
Colorado	12	12 HSW	Annual	12
Delaware	24	24 HSW	Biennial	12
District Of Columbia	24	24 HSW	Biennial	12
Florida	24	22 HSW	Biennial	12
Georgia	24	16 HSW	Biennial	12
Illinois	24	16 HSW	Biennial	12
Indiana	24	16 HSW	Biennial	12
Iowa	24	24 HSW	Biennial	12
Kentucky	12	12 HSW	Annual	12
Louisiana	12	12 HSW	Annual	12
Maryland	24	24 HSW	Biennial	12
Massachusetts	12	12 HSW	Annual	12
Michigan	24	24 HSW	Biennial	12
Minnesota	24	18 HSW	Biennial	12
Mississippi	24	24 HSW	Biennial	12
Missouri	24	16 HSW	Biennial	12
Nebraska	24	16 HSW	Biennial	12
New Hampshire	24	24 HSW	Biennial	12
New Jersey	24	16 HSW	Biennial	12
New Mexico	24	24 HSW	Biennial	12
New York	36	24 HSW	Every 3 yrs	12
North Carolina	12	12 HSW	Annual	12
Ohio	12	12 HSW	Annual	12
Oklahoma	24	24 HSW	Biennial	12
Oregon	24	24 HSW	Biennial	12
Rhode Island	24	24 HSW	Biennial	12
South Carolina	24	24 HSW	Biennial	12
Tennessee	24	13 HSW	Biennial	12
Texas	12	12 HSW	Annual	12
Utah	24	24 HSW	Biennial	12
Vermont	24	24 HSW	Biennial	12
Washington	24	16 HSW	Biennial	12
West Virginia	12	12 HSW	Annual	12
Wisconsin	24	16 HSW	Biennial	12
Idaho	12	12 HSW	Annual	12
Montana	12	12 HSW	Annual	12
Wyoming	24	24 HSW	Biennial	12
Puerto Rico	60	60 HSW	Every 5 Years	10
Hawaii	16	16 HSW	Biennial	8
Nevada	8	8 HSW	Annual	8
Virginia	16	non-hsw ok	Biennial	8
California	5	5 ADA	Biennial	2.5
Arizona	No CE			0
Connecticut	No CE			0
Maine	No CE			0
North Dakota	No CE			0
Pennsylvania	No CE			0
US Virgin Islands	No CE			0

<b>Avg MCE hrs / yr / state</b>		<b>10</b>
<b>12+ MCE hrs / yr</b>	<b>42</b>	<b>79%</b>
<b>8-10 MCE hrs / yr</b>	<b>4</b>	<b>8%</b>
<b>0-2.5 MCE hrs / yr</b>	<b>7</b>	<b>13%</b>

**California ranks 48<sup>th</sup> out of 53 states and territories**

State / Territory	Total Hours	Requirement	Cycle	MCE hrs/year
<b>California</b>	<b>5</b>	<b>5 ADA</b>	<b>Biennial</b>	<b>2.5</b>

\*Source: NCARB and AIA National



**AIA**  
California

## **Goals: Mandatory Continuing Education in Zero Net Carbon Design**

- Educate all architects in California about Zero Net Carbon design
- Prepare all architects to protect the public's health, safety & welfare
- Prepare all architects for rapidly changing energy codes
- Mobilize the profession to help lead statewide de-carbonization
- Focus first on reducing operational carbon, expand to resilience
- Ensure qualified instruction for all courses
- Collaborate with the California Architects Board (CAB)



**AIA**  
California

## Details:

- AIA CA proposes ***5 additional LU's in Zero Net Energy Design*** to be required every two years for architecture licensure
- AIA CA will make courses available ***free to all California architects***
- AIA CA will draw from an extensive network of experts to ***ensure quality course providers***



**AIA**  
California

## **Benefits to the Profession and the Public:**

- **Foundational expertise:** Provides California architects with a basic understanding of the profession's role in reducing carbon
- **Practice Support:** Equips California architects with useful tools to prepare for future code cycles
- **Free CE courses:** AIA CA committed to providing free, qualifying education for these hours to members and other architects
- **California leadership:** Advances our state's national leadership in climate action and rapid de-carbonization
- **Social Equity:** De-carbonization will create new inner-city jobs and help protect disadvantaged populations from severe climate impacts




**AIA**  
California

**Resolution passed by the AIA California Board of Directors July 23:**

***Work with the California Architects Board to promote and obtain a requirement for architects to complete an additional 5 hours of continuing education in building decarbonization/Zero Net Carbon Design every two years as a condition of license renewal beginning with the 2023 renewal cycle.***

**How can we work with CAB to achieve this important goal?**



One site.  
Countless challenges.  
A looming deadline.  
Seven and a half billion clients.  
This is the ultimate design project.

This is why we're here.

- AIA Climate Action Plan, April 2020