





## Building power together for accelerated, equitable climate policy in California

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California Climate Policy Summit

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#### **Current global climate goals**

#### **UN IPCC 1.5C Report- Oct 2018**

- Cut emissions by 45% by 2030
   AND
- remove up to 1000 Gt CO2e from atmosphere

to achieve **net-zero emissions by 2050** and **stay under the 1.5C**dangerous warming threshold



#### **Current pledges= 14% increase in emissions!**



#### "Code red for humanity"-UN Sec General António Guterres, Aug 9 2021

"a brief and rapidly closing window of opportunity to secure a liveable and sustainable future for all."

- IPCC 6th Assessment, WGII, Feb. 28, 2022





#### "No temperature rise is safe"...rapidly warming climate is the "greatest threat" to global public health

-220 medical journals globally, Sept. 7 2021



### Western US now in global warming-induced severe megadrought; worst in 1200 years

- Threatens dustbowl & ag economy by as early as 2027 in CA
- 2015 drought cost ~\$2.7 billion and 20k lost ag jobs in California





#### Increasing health impacts especially BIPOC and working class communities

Fossil fuel air pollution => 1 in 5 deaths globally
Heatwaves => leading climate related killer
7.3 million Californians live within 1 mi. of oil & gas wells



https://www.fractracker.org/2020/12/people-and-production/

https://www.epa.gov/climate-indicators/climate-change-indicators-heat-related-deaths

https://www.seas.harvard.edu/news/2021/02/deaths-fossil-fuel-emissions-higher-previously-thought

https://www.latimes.com/california/story/2021-02-01/wildfire-smoke-microbes-in-the-air

http://www.who.int/globalchange/en/; Leleiveld et al., Cardiovascular, March 2020; Hoffman et al. Climate Jan 2020

Bekkar et al JAMA June 2020

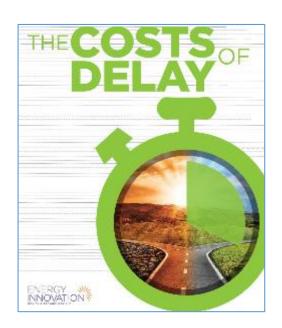
https://www.nytimes.com/2020/06/18/climate/climate-change-pregnancy-study.html

http://www.g-feed.com/2020/09/indirect-mortality-from-recent.html



## Delayed climate action costs lives and dollars, bankrupting our future

- Eliminating fossil fuel air pollution in bldgs. & transportation in CA = \$44 billion per year in improved health & ~5,000 premature deaths avoided
- Costs much less investing big today rather than waiting until 2030 (For CA: est. \$47 billion/year now vs. \$110 billion/year starting in 2030 based on CA =14.6% of GDP)
- \$150 Billion in damages from 2018 CA wildfires but \$80 Billion invested in California generate ~725,000 jobs



https://energyinnovation.org/wp-content/uploads/2021/01/Cost\_of\_Delay.pdf

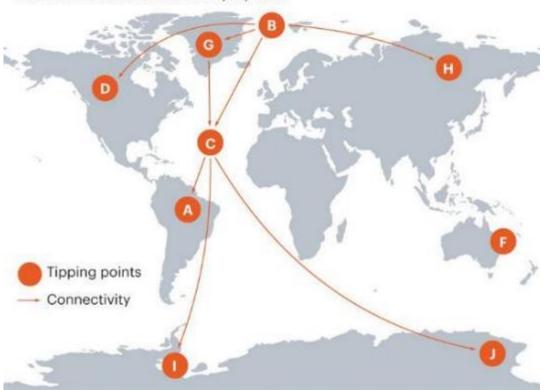
https://www.ethree.com/new-e3-reports-quantify-the-health-benefits-of-reducing-fossil-fuel-use-in-california/Jan 2022 https://www.federalreserve.gov/publications/files/financial-stability-report-20201109.pdf https://www.nytimes.com/2020/09/08/climate/climate-change-financial-markets.html

Wang, D et al. **Economic footprint of California wildfires in 2018**. *Nature Sustainability*, 2020 DOI: <u>10.1038/s41893-020-00646-7</u> <u>https://www.accuweather.com/en/weather-news/california-wildfires-will-cost-tens-of-billions-accuweather-estimates/612548</u> Political Economy Research Institute <a href="https://www.peri.umass.edu/images/CA-EconRecProgram-6-12-20\_Final.pdf">https://www.peri.umass.edu/images/CA-EconRecProgram-6-12-20\_Final.pdf</a> World Resources Institute <a href="https://www.wri.org/blog/2020/07/economic-benefits-climate-action-us">https://www.wri.org/blog/2020/07/economic-benefits-climate-action-us</a>



#### RAISING THE ALARM

Evidence that tipping points are under way has mounted in the past decade. Domino effects have also been proposed.



A. Amazon rainforest Frequent droughts

B. Arctic sea ice Reduction in area

C. Atlantic circulation In slowdown since 1950s D. Boreal forest Fires and pests changing

F. Coral reefs Large-scale die-offs

G. Greenland ice sheet Ice loss accelerating H. Permafrost Thawing

I. West Antarctic ice sheet Ice loss accelerating

J. Wilkes Basin, East Antarctica Ice loss accelerating

9 of 15 global tipping points underway now... domino effect to uninhabitable 'hothouse' climate if we don't act soon...

Lenton, Rockstrom, Gaffney, Rahmstorf, Richardson, Steffen, Schyellnhuber.

Nature, Nov 27 2019

https://www.nature.com/articles/d41586-

019-03595-0

https://www.sciencedaily.com/releases/20 19/11/191127161418.htm



"We have underestimated the risks off unleashing irreversible changes ...We are seeing strong evidence already for declaring a state of planetary emergency...

The next decade is our window...with consequences for all future generations."



Johan Rockström, Director,
 Potsdam Institute for Climate
 Impacts Research, 2019

https://www.sciencedaily.com/releases/2019/11/1911 27161418.htm

https://sverigesradio.se/avsnitt/1425542 https://medium.com/@rchrdhy/johan-rockstr%C3%B6ms-10-point-agenda-for-saving-the-world-unofficialtranscript-431261f885c6



# The climate reality is outpacing policy.

Some leaders are now stepping up

But ...California has fallen behind



## "I don't at all feel that we [in California] are leading the world anymore."

- Assembly Speaker Anthony Rendon, COP26, Glasgow





https://calmatters.org/newsletters/whatmatters/2021/11/california-climate-change-newsom/

### New International & National Climate Targets....

- ✓ EUROPEAN UNION: Cut GHGs by at least 55% by 2030 from 1990
- ✓ UK: Cut GHGs 68% by 2030 from 1990 levels; 100% ZEV sales by 2030; 100% clean electricity by 2035
- ✓ DENMARK: 70% GHG cut below 1990 by 2030; Copenhagen- carbon neutral by 2025
- ✓ RHODE ISLAND: 100% GHG free electricity by 2030
- ✓ WASHINGTON STATE: 100% ZEV car sales by 2030
- ✓ CITY of LOS ANGELES: 97% GHG free electricity by 2030, 100% by 2035
- **✓ PRESIDENT BIDEN** 
  - Cut GHGs 50% below 2005 by 2030
  - 100% GHG free electricity by 2035



# The nation and the world are looking to California to lead for a climate-safe future

## As goes California, goes the world





#### Need more aggressive, equitable policies & accelerated timelines in CA now!



#### Climate-Safe California

Carbon negative, equity positive by 2030

www.climatesafeca.org

GOAL: By 2025, CA will have enacted the bold & equitable policies required by science to dramatically cut emissions, scale up natural drawdown, and secure resilient communities for all by 2030, inspiring greater global action



### Guiding principles for Climate-Safe CA targets, policies and programs

- 1- Based on the latest science
- 2- Ensure a just transition for fossil fuel workers
- 3- Prioritize climate justice and equal access to climate solutions



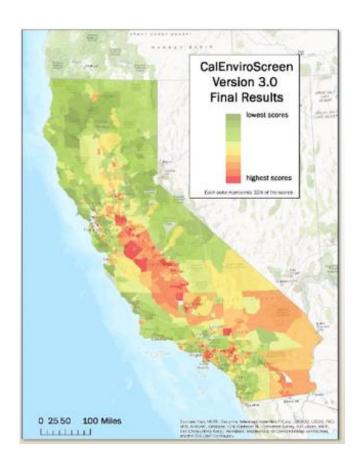


## WE HAVE THE SOLUTIONS, JUST NEED THE POLITICAL WILL TO ACHIEVE CARBON NEGATIVE, EQUITY POSITIVE

- 1. Accelerate the phase-out of fossil fuel development, production, refinement and use
  - 3x deployment of renewables, including local distributed clean energy and storage
  - electrify transit and buildings
- 2. Scale-up protection /conservation of nature and nature-based sequestration on natural, working & urban lands
- 3. Invest in community resilience engaging with communities
- 4. Fund climate action with \$12-20 billion/year and leverage private sector money



# We Must Prioritize Full Engagement with Communities That Suffer Most from Air and Water Pollution, Power Outages and Lack of Access to Climate Solutions





#### **Positive Tipping Points**

- UK decarbonizing its electricity faster than any other major economy
- Norway EVs are 80% of new car sales today





## **Growing Enviro Justice and Youth Movements**





### LA City Council voted <u>unanimously</u> to advance phasing out oil & gas extraction across the city

January 26, 2022



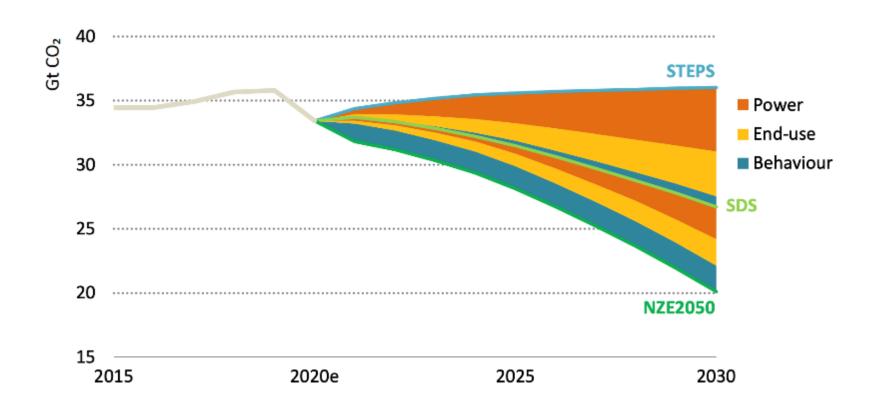
#### STAND-LA:

Physicians for Social Responsibility-LA
Communities for a Better Environment
Black Women for Wellness
Esperanza Community Housing Corporation
Redeemer Community Partnership
Holman United Methodist Church
Strategic Concepts in Organizing & Policy- LA
Liberty Hill



#### SOLAR NOW CHEAPEST ELECTRICITY GLOBALLY

CO2 emissions from coal-fired power stations projected to decline by 75% between 2019 and 2030



https://www.carbonbrief.org/solar-is-now-cheapest-electricity-in-history-confirms-iea Oct 13 2020

U.S. renewable energy consumption surpasses coal for the first time in over 130 years May 28 2020

https://pvbuzz.com/renewables-produce-more-electricity-than-coal/ Apr 27 2020

https://www.eia.gov/electricity/monthly/epm\_table\_grapher.php?t=epmt\_es1a



## Cheaper to build renewables than to operate fossil fuel power plants



Now cheaper to build renewables than to operate fossil fuel power plants



### CHALLENGE: Bold, Equitable Climate Legislation Stymied in Sacramento

https://theclimatecenter.org/our-work/legislation/





## Governments & policymakers are like sailboats. They go nowhere without wind. We are the wind in their sails!





## TODAY'S FOCUS: come together as allies, frankly discuss strategy and tactics for 2022 legislation & regulation

- 1. Community Energy Resilience
- 2. Phase out fossil fuels and sustainable mobility
- 3. Natural Carbon Sequestration
- 4. Finance, accountability and carbon capture and storage



