

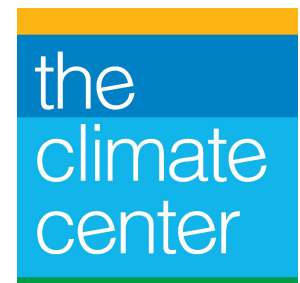


Climate-Safe California: accelerating climate action

Investing in Clean Community Energy Resilience

Wednesday, March 23, 2022

Kurt Johnson

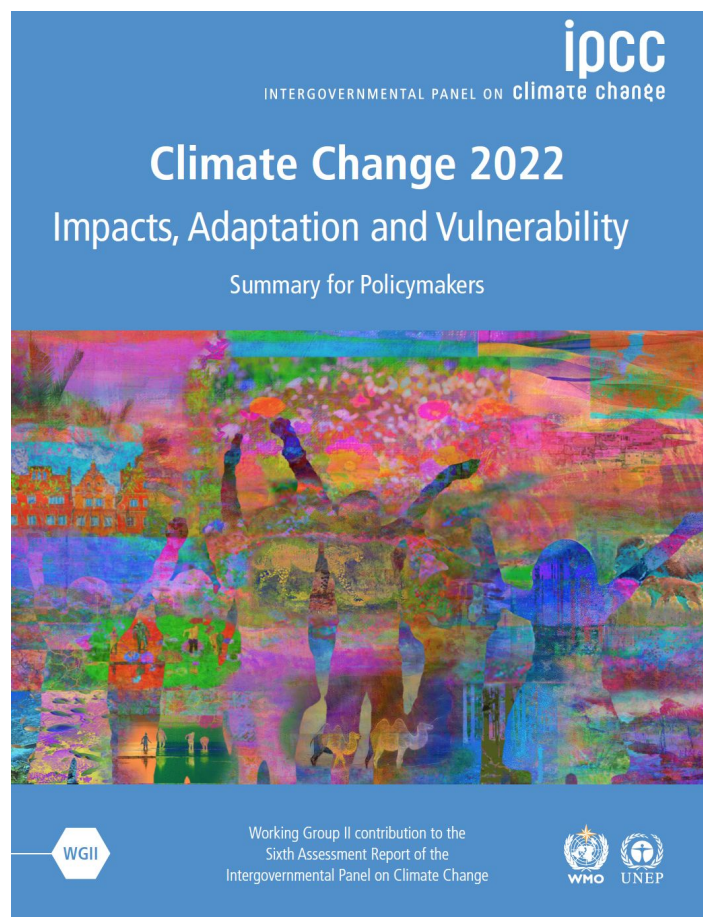


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World on Fire

February 2022 IPCC Report

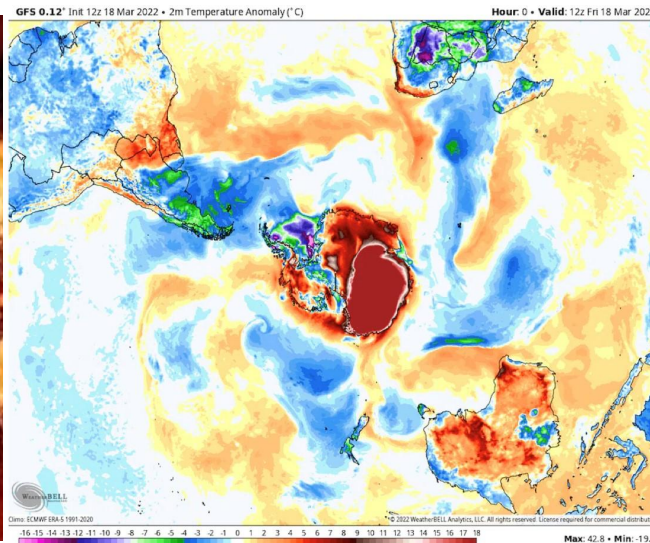
”Any further delay in concerted...global action will miss a brief and rapidly closing window of opportunity to secure a livable and sustainable future for all”



“Code red for humanity....

This report must sound a death knell for coal and fossil fuels, before they destroy our planet.”

*-UN Secretary General António Guterres, Aug 9 2021,
re: United Nation IPCC 6th Assessment Report*



Global climate models do not include regional extremes we are now experiencing (eg, Antarctica 72 F higher than normal!)

<https://www.theguardian.com/environment/2022/mar/21/extremes-of-40c-above-normal-whats-causing-extraordinary-heating-in-polar-region>
<https://www.reuters.com/business/environment/un-sounds-clarion-call-over-irreversible-climate-impacts-by-humans-2021-08-09/>
<https://www.theguardian.com/environment/2021/jul/02/canadian-inferno-northern-heat-exceeds-worst-case-climate-models>
<https://grist.org/science/is-climate-change-happening-faster-than-expected-a-climate-scientist-explains/>

Current global climate goals are ambitious but **inadequate**

UN IPCC 1.5C Report- Oct 2018

- Cut emissions in half by 2030

AND

- remove up to 1000 Gt CO₂e or up to one trillion tons of past climate pollution from atmosphere

to achieve net-zero emissions by 2050 and stay under 1.5C



We must do more sooner per new science...

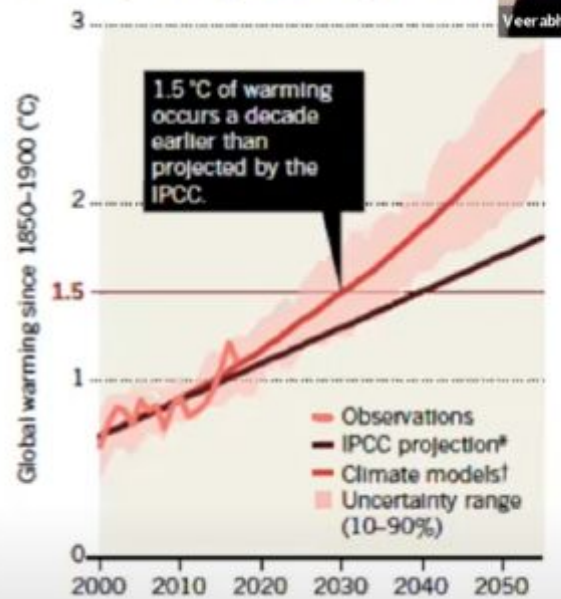
Will pass 1.5°C dangerous warming by 2030 10 years earlier than UN IPCC projected

Global warming will happen faster than we think

Three trends will combine to hasten it, warn Yangyang Xu, Veerabhadran Ramanathan and David G. Victor.

ACCELERATED WARMING

Climate simulations predict that global warming will rise exponentially if emissions go unchecked.



Xu, Y., et al, **Global Warming will Happen Faster than We Think**, Nature Dec 2018, 564(7734):30-32

DOI: [10.1038/d41586-018-07586-5](https://doi.org/10.1038/d41586-018-07586-5)

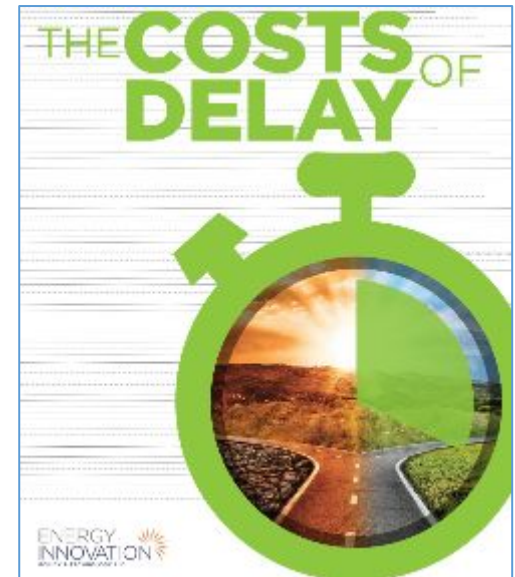
MoveCA Zoomposium, Jan 21 2021, <https://www.youtube.com/watch?v=T3IOX5ru0BI&t=12s> (at 16 min in)

Hébert, R. et al. *Climate Dynamics*, 2020; DOI: [10.1007/s00382-020-05521-x](https://doi.org/10.1007/s00382-020-05521-x)

CA impacts: personal communication with V. Ramanathan, Scripps/UC San Diego

Climate action delay & inaction costs lives and dollars, bankrupting our future

- Eliminating fossil fuel air pollution in bldgs. & transportation in CA yields \$44 billion/year in improved health & avoids ~5,000 premature deaths
- Costs much less investing big today rather than waiting until 2030
- 2018 CA wildfires cost \$150 Billion in damages *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: [10.1038/s41893-020-00646-7](https://doi.org/10.1038/s41893-020-00646-7)

<https://www.accuweather.com/en/weather-news/california-wildfires-will-cost-tens-of-billions-accuweather-estimates/612548>

Political Economy Research Institute https://www.peri.umass.edu/images/CA-EconRecProgram-6-12-20_Final.pdf

World Resources Institute <https://www.wri.org/blog/2020/07/economic-benefits-climate-action-us>

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



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



Climate-Safe California

Campaign for Rapid Decarbonization

www.theclimatecenter.org

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



CLIMATE-SAFE CALIFORNIA

accelerate existing state goals 15 years...

2045 is too late

- **Net-negative emissions by 2030** (drawdown greater than emissions) (Brown 2018 EO by 2045)
 - **80% below 1990 GHG levels by 2030** (Schwarzenegger 2005 EO by 2050)
 - **Nature-based annual sequestration greater than emissions by 2030**

Definition: net negative emissions is achieved when, as a result of human activities, more greenhouse gases are removed from the atmosphere than are emitted into it. – UN IPCC 1.5C Report <https://www.ipcc.ch/sr15/chapter/glossary/>



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 ensure lower-income/BIPOC communities are no longer disproportionately harmed by fossil fuels & equal access to climate solutions



Photo: Stand.LA, by KPCC AirTalk

TYPES OF POLICIES REQUIRED BY SCIENCE TO REACH CARBON NEGATIVE BY 2030

1. Accelerate the phase-out of fossil fuel production, electrify transportation and buildings
2. Scale-up nature-based sequestration to 100 MMT/year by 2030 on natural & working lands: AB 2649
3. Invest in community resilience, including clean energy microgrids & storage: SB 833
4. Fund climate action with \$12-20 billion/year and leverage private sector money

www.climatesafeca.org

Endorse Climate-Safe California today!

www.climatesafeca.org



**California can remove
more climate pollution
than we emit by 2030**

Learn more about our campaign
for a healthy, hopeful & equitable
future at www.climatesafeca.org

the
climate
center

NEW AB 2649: The Natural Carbon Sequestration and Resilience Act of 2022

Natural carbon removal through soil and vegetation => benefits our climate, health, water, food, environment and economy

Author: Asm. C. Garcia Co-authors: Asm. M. Stone and Senator J. Becker



Register for California Climate Policy Summit 2022 April 18th in Sacramento

California Climate Policy Summit 2022

Featured Speakers

April 18, 2022, 9 am



Angelina Galiteva
CAISO



David Hochschild
California Energy
Commission



Wade Crowfoot
California Natural
Resources Agency



J. Mijin Cha
Occidental College

TheClimateCenter.org/summit2022

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