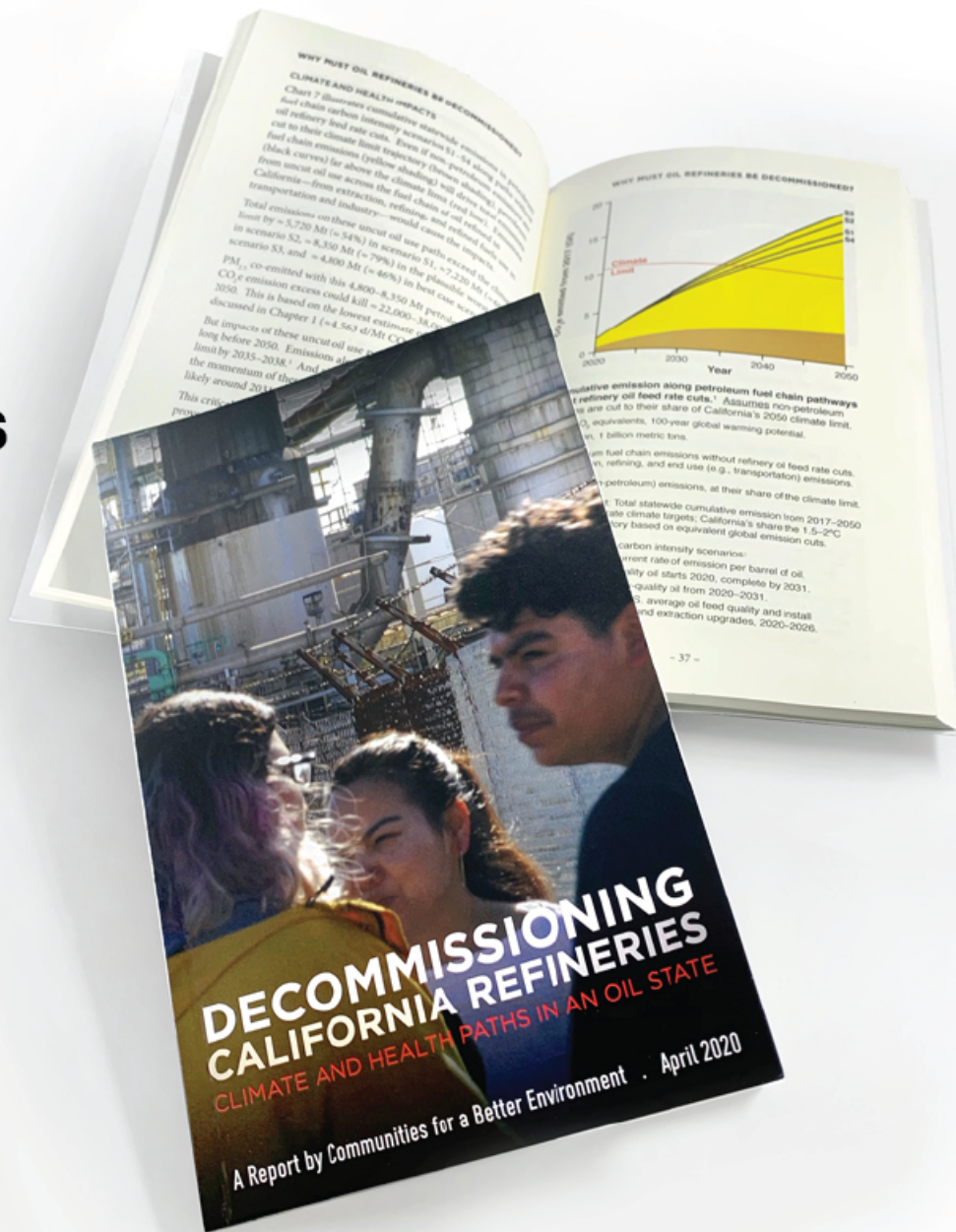


Just transitions are possible in our communities near California refineries IF WE START NOW

By
Greg Karras
Community Energy reSource

At
Climate-Safe CA
The Climate Center
February 23, 2021

Get the report:
www.Energy-re-Source.com



Oil refining centers of western North America

Alaska 174,000 b/cd

British Columbia 67,000 b/cd

Washington 629,000 b/cd

California 1,970,000 b/cd

Hawaii 144,000 b/cd

West Coast of Costa Rica, El Salvador, Mexico & Nicaragua 305,000 b/cd

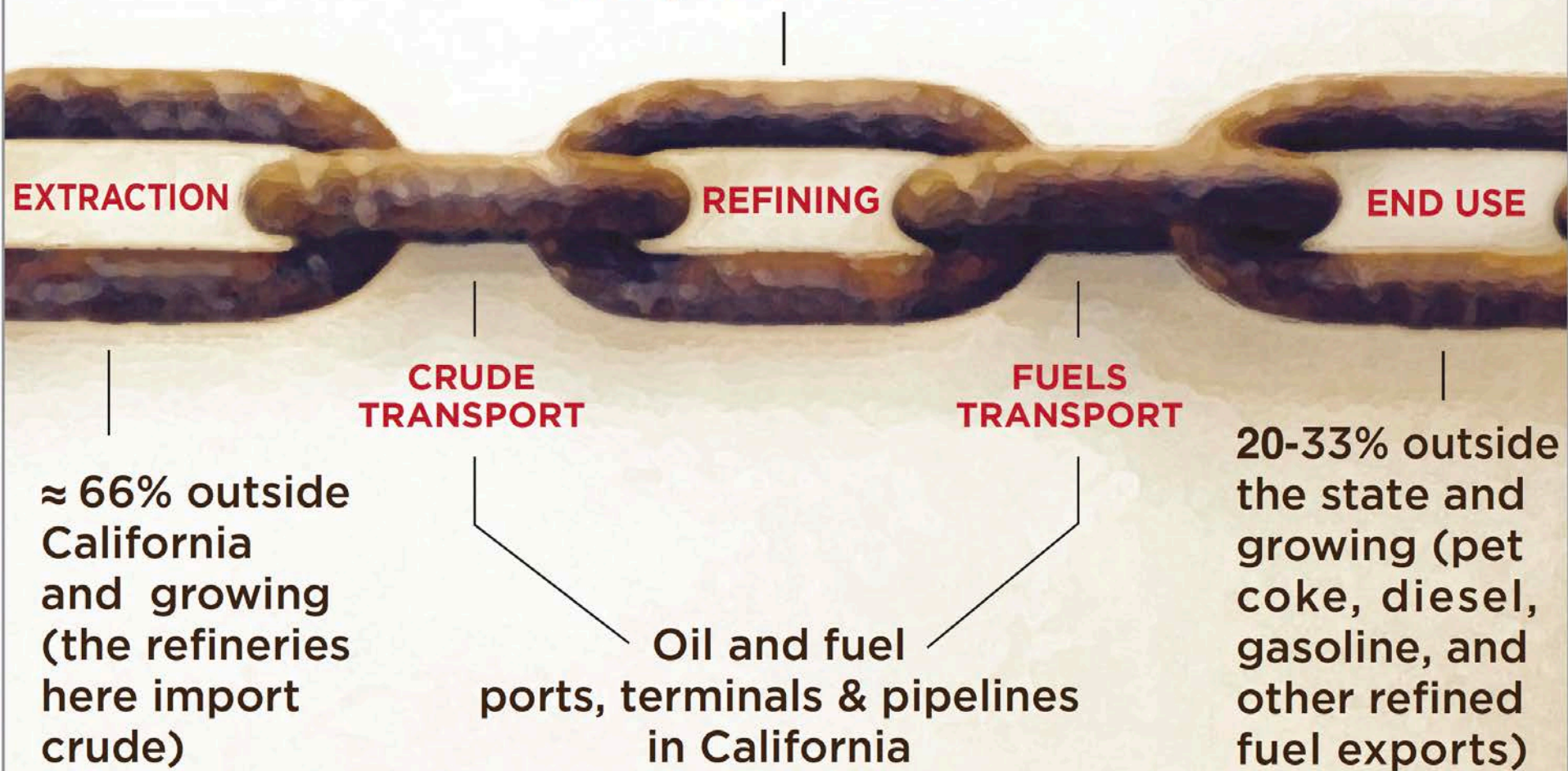
Calendar-day (b/cd)
capacities in 2018

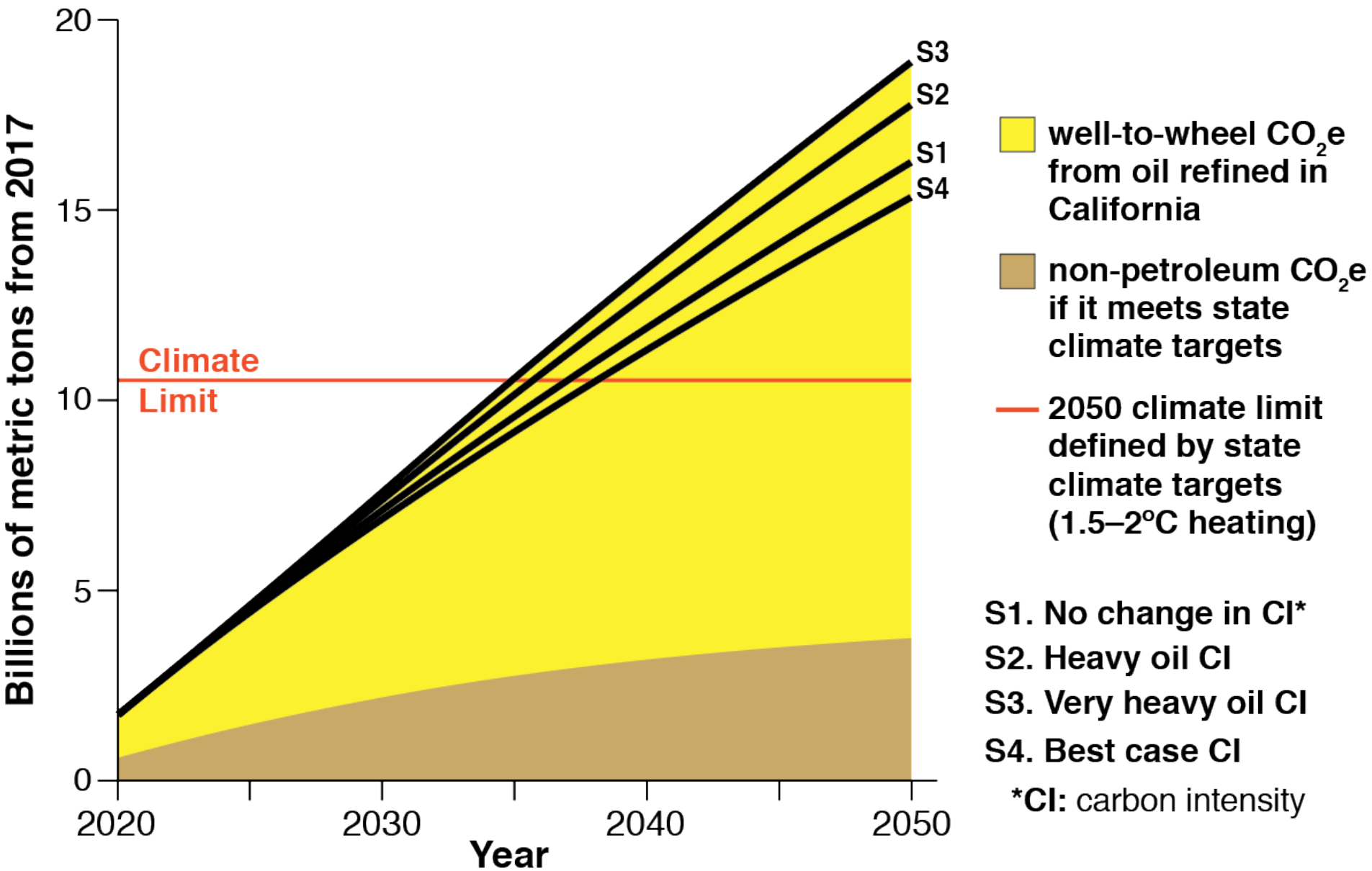
b: barrel (oil);
42 U.S. gallons

Mountains isolate the
West Coast refined fuels
market from refineries in
other parts of the U.S.

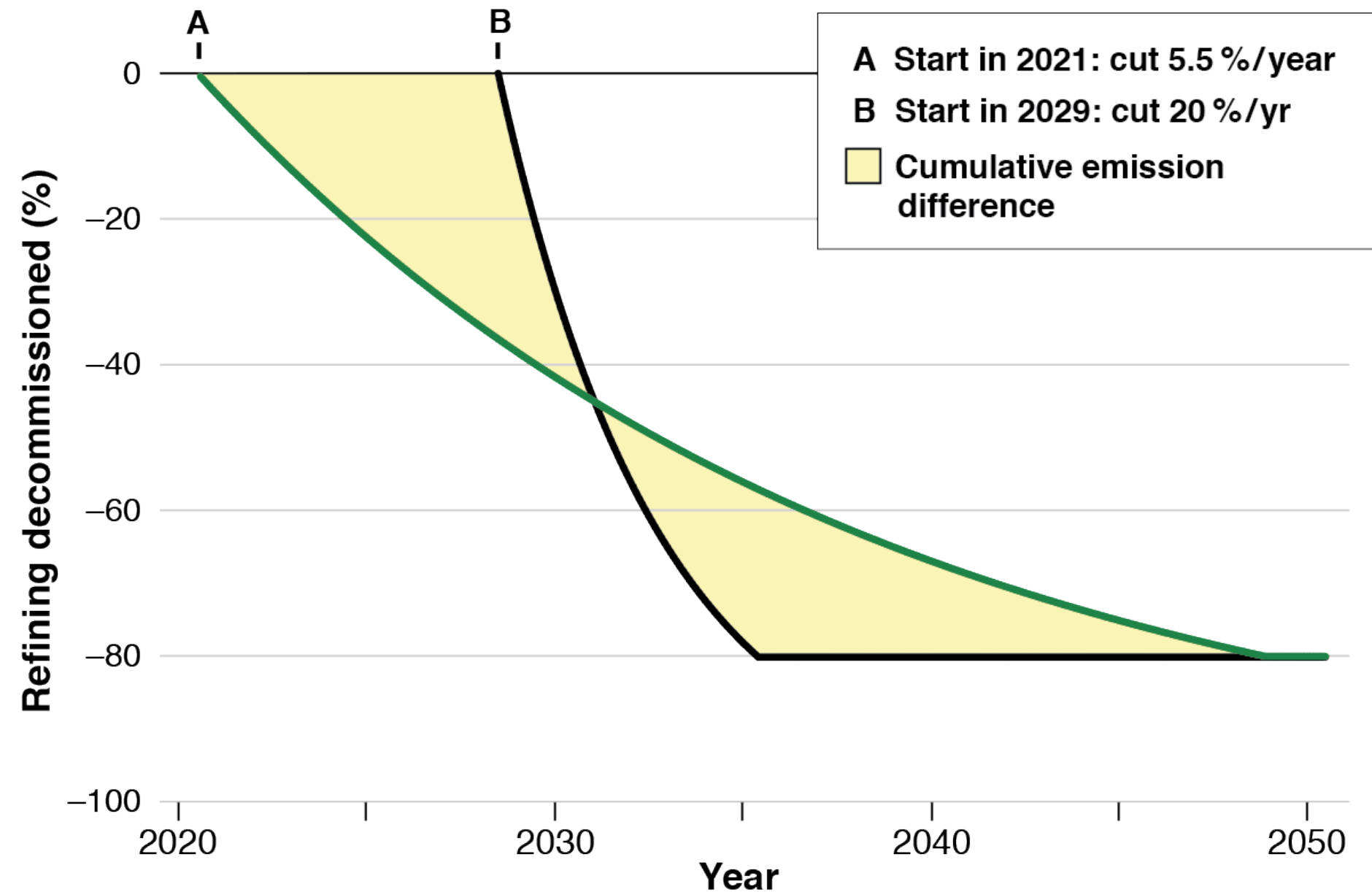
DECODING THE PETROLEUM FUEL CHAIN IN CALIFORNIA

Oil refined here emits all along the fuel chain,
wherever it is extracted and
finally used as fuels



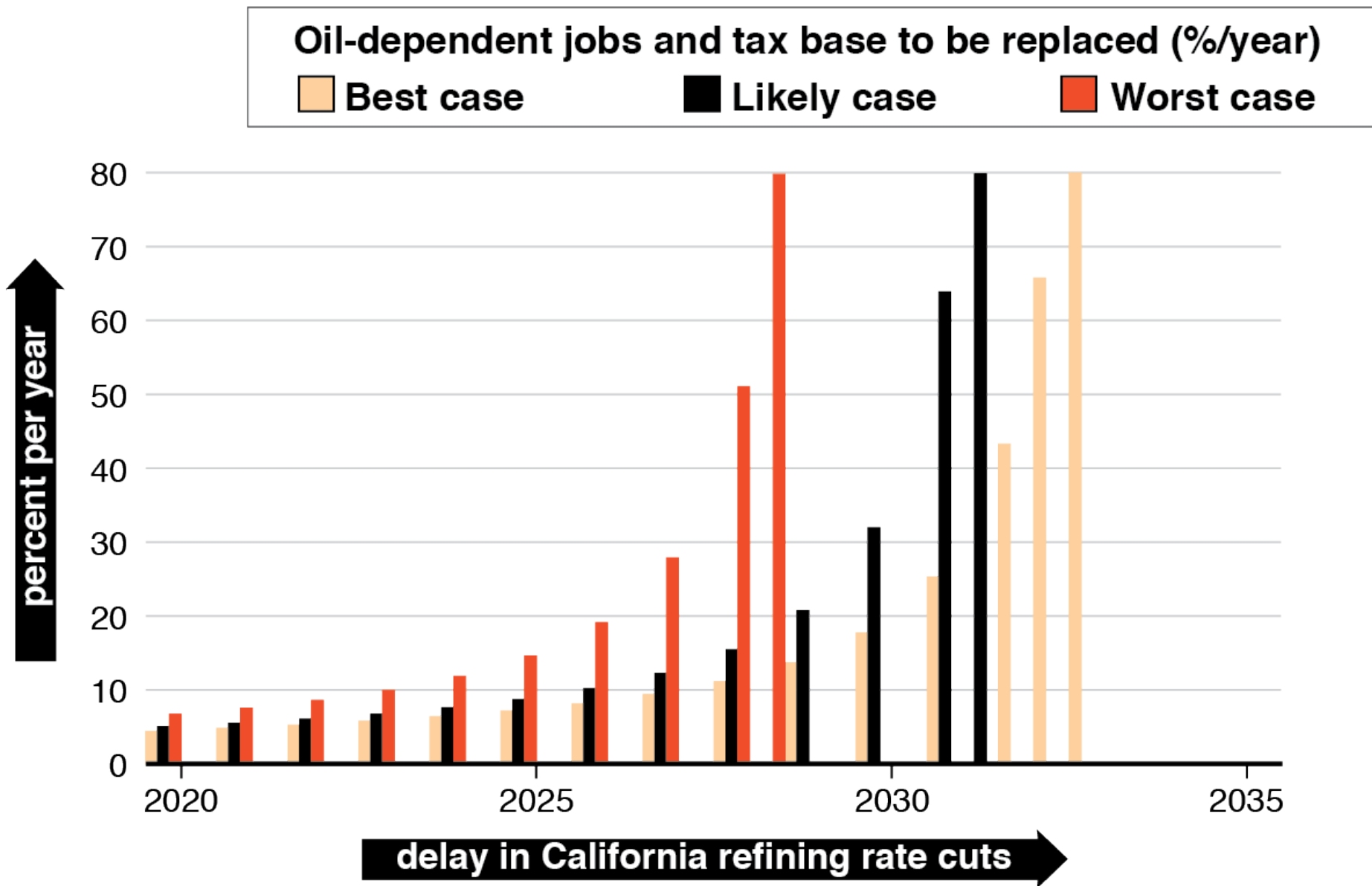


Cumulative CO₂e emissions along petroleum fuel chain pathways without refinery oil feed rate cuts. Assumes that all non-petroleum emissions meet California's 2050 climate limit. www.Energy-re-Source.com



Emission impact of delay on refining cuts to state climate targets.

Example: two S1-C1 trajectories from Karras, 2020.



Transition impacts of delayed refining cuts to state climate targets.

Assumes all non-petroleum emissions cut to their share of state climate targets and 20% refining capacity reserve. Data: Karras, 2020.

Acknowledge that quickly starting a gradual decommissioning of refining capacity is an essential component of the most feasible paths to achieving state climate goals with proven technology.

The California Air Resources Board could take this action.