

***Moving Ahead on Climate Change:
World, U.S., Colorado***

***The National Perspective—
Prospects for Action***

Phil Nelson

EEE Forum, 25 Jan 2021

What can President Biden do administratively?



Rejoin Paris Accord & pressure other countries to take action

Roll back Trump regulatory cutbacks

Embed climate concerns throughout federal agencies, especially for buildings, industry, and agriculture

Devise a stimulus package for climate change and/or a new comprehensive climate bill

*from the
U.S. Congress in 2020:
a climate plan
and
climate-related legislation*



House Climate Crisis Action Plan

Select Committee on the Climate Crisis,
Majority Staff Report of 116th Congress
June 2020

The Climate Crisis Action Plan establishes a goal of reaching net-zero greenhouse gas emissions economy-wide in the United States by no later than 2050....

***“Infrastructure policy
is climate policy.”***

Section 1 of House Climate Action Plan, page 31, June 2020

Energy Act of 2020

Division Z of the Consolidated Appropriations Act (Dec 2020)



...energy storage; advanced nuclear; building efficiency; geothermal, wind, and solar energy; carbon storage and utilization; industrial emissions; critical minerals; grid modernization; commercialization; ARPA-E.

Nearly 70 senators sponsored or cosponsored provisions included in the Energy Act. All or part of 37 Senate bills are included, including 29 bipartisan bills.

*We have reviewed two
climate-related outcomes
from the last U.S. Congress*

*What can we expect in the
next year or two?*



Senate Committee on Energy And Natural Resources



Chairman
Senator Joe Manchin (D),
West Virginia

Ranking Member
Senator Barrasso (R),
Wyoming



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Section 1 of House Climate Action Plan, page 31, June 2020



Green Neighborhoods Act of 2020



H.R. 8021 54 pages

Energy Efficiency Participation Incentives for HUD Programs

Goal: encourage energy efficiency, conservation, and development of renewable energy sources for housing

Tools: Energy Star or LEED certification

Other sections: mortgage underwriting, manufactured housing, tree planting & landscaping; workforce training, community development

Clean Energy Innovation and Deployment Act of 2020

H.R. 7516 -- 269 pages



Title I. Investment in Clean Energy Technology Innovation

Agency: Clean Energy Deployment Administration (new)
within Department of Energy

Goal: Bring promising clean energy technologies to point
of commercial availability.

Tools: loans from new investment fund, grant programs,
new and existing tax credits

Clean Energy Innovation and Deployment Act of 2020



Title II. Zero-emission Electricity Standard.

Agency: Department of Energy

Goal: achieve 100% of electrical power generation with zero-emission technology by year 2050 (and 50% by year 2030).

Tools: tradable credits of zero-emission electricity submitted by each power company to DOE. (one ZEEC = one MW-hr) Carbon mitigation fund using penalties.

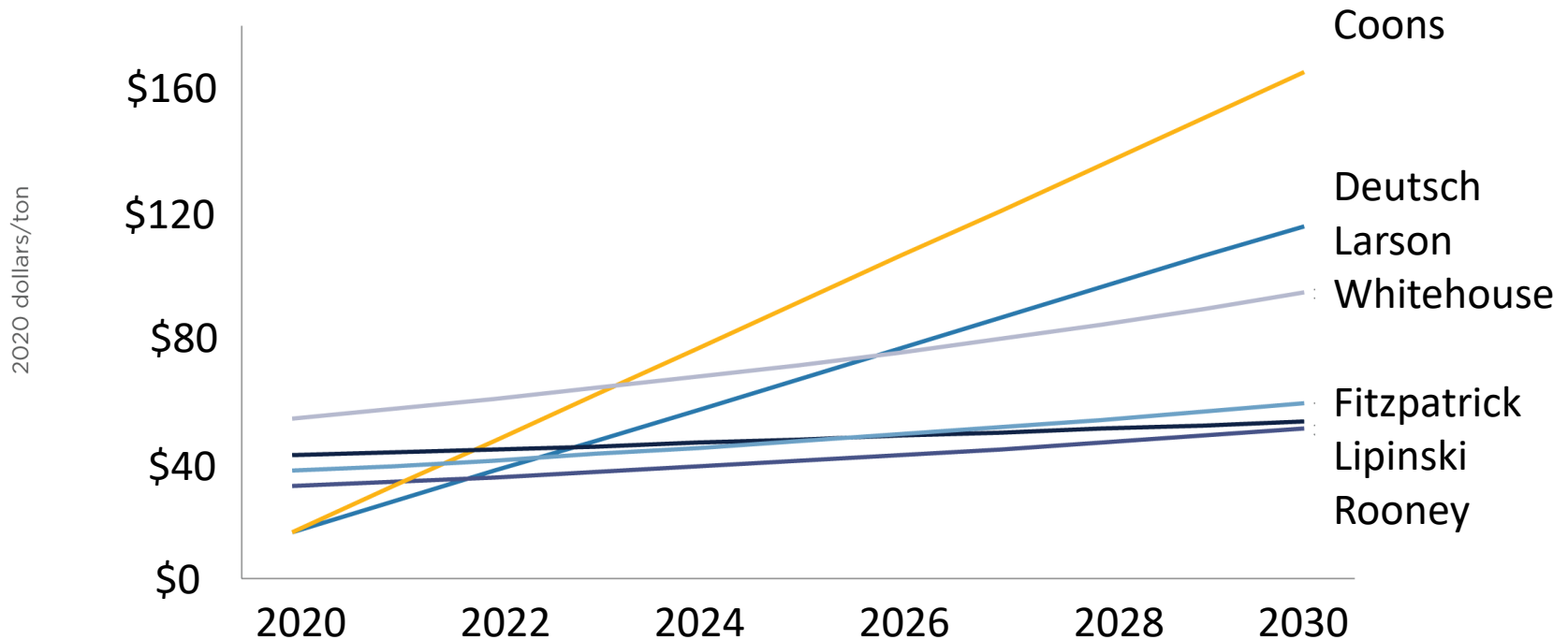
Who supports a price on carbon?



Carbon tax rate for seven bills introduced in 2019

Kaufman et al, Columbia/SIPA, Nov 2019

Price per metric ton carbon dioxide



Source: CGEP analysis

Where does the money go? Seven Bills introduced in 2019

Kaufman et al, Columbia/SIPA, Nov 2019

Energy Innovation &
Carbon Dividend Act

Use of carbon tax revenues



Place your bets:

Focused legislation

Clean Energy Investment

Clean Energy Standards

A Price on Carbon