Climate Solutions
In Democratic Candidates’ Plans

**Science**
- Increase annual investment in research and development for climate solutions by
  - Biden: $40b
  - Bloomberg: $18b
  - Buttigieg: $18b
  - Klobuchar: ‘massive’
  - Sanders: $63b
  - Warren: $18b
- Re-empower the EPA to limit pollution: Yes
- Take action against those who promote harm and conceal information: No

**Climate Solution Mechanisms**
- Establish carbon fee and dividend: Both
- Establish clean energy standards (increasing minimum % of renewable electricity): Fee only
- Establish carbon cap and trade program: Both
- Implement New Green Deal: Fee only
  - Stated goal: carbon free by the year
  - Funding for climate and environment, per year:
    - 2050: $170b
    - 2050: $1.1t
  - Leverage private sector funding per year of:
  - Preserve and implement the Clean Air Acts (of 1963 and 1990): x
  - Restore Obama’s Clean Power Plan and EPA’s methane regulation: x
  - To empower energy efficiency and clean energy, fund a national green bank: x
  - Establish a clean technology fund with: x
  - Sell government climate action bonds, to double in value over 20 years: x
  - Annually remove 1 gigaton of carbon dioxide from atmosphere by: 2040

**International**
- Re-join Paris Climate Accord: x
- Increase US pledge to the UN Green Climate Fund from $3 billion to:
  - Biden: $5b
  - Bloomberg: $200b
- Encourage other nations to increase their Paris pledges: x
- Use trade policy to ensure other countries reduce emissions: x
- Embrace the Kigali Amendment, curbing HFC use: x
- Demand an international ban on fossil fuel subsidies: x
- Establish matching funds for US companies for clean energy in developing world: x
- End US support of World Bank aid for fossil fuel development: x

**Corporate**
- Eliminate US direct subsidies for fossil fuel corporations: x
- Allow laws against corporations and their CEOs: x
- Require corporations to disclose emissions and climate risks: x
- Subsidize fossil fuel companies to transition to cleaner energy: x
- Net zero for all industrial sectors, including steel and concrete, by:
  - Biden: 2050
  - Warren: ASAP
  - Buttigieg: 2050
  - Klobuchar: 2050
  - Sanders: 2050
  - Warren: 2050

**Fossil Fuels**
- Ban all fracking, mountaintop removal coal mining, and offshore drilling: x
- Ban all new fossil fuel infrastructure and all fossil fuel imports and exports: x
- Allow fracking: x
- Accept methane as a transition fuel: x
- Ban drilling and mining on public lands except specific cases: x
- Ban offshore drilling: x
- Require methane pollution limits on oil and gas operations: x

**Transportation**
- New charging stations for electric vehicles: x
- Restore tax credit for electric vehicles: x
- Grants and trade-in programs to promote electric vehicles: x
- Reinstate Obama’s trajectory for vehicle fuel efficiency: x
- Establish vehicle fuel efficiency standards of 54.5 mpg by 2025: x
- Biofuels for aircraft and shipping: x
- Construct high-speed rail: x
- Discourage urban sprawl, shortening vehicular trips: x
- Net zero emissions for all cars, trucks, buses, trains, ships, and aircraft by:
  - Biden: 2040
  - Buttigieg: 2030
  - Klobuchar: 2030
  - Sanders: 2040
  - Warren: 2035
- Loan guarantees for retooling assembly plants to accommodate electric vehicles: x
- Invest in public transportation: x

**Electricity**
- Incentivize wind and solar: x
- Increase nuclear, especially small nuclear reactors: x
  - “Renewables are still many years away from reality”: Yes
  - Accelerate “clean” energy development: x
  - Construct a smart grid: x
  - Clean power for all electricity by:
    - Biden: 2035
    - Buttigieg: 2030
    - Klobuchar: 2030
    - Sanders: 2035
    - Warren: 2030

**Buildings**
- Improve efficiency of government-owned buildings: x
- Improve efficiency of new buildings via building codes: x
- Incentivize efficiency of existing buildings: x
- Heighten efficiency standards for appliances and equipment: x

**Farming and Land**
- Support biofuels: x
- Invest in practices to restore soil, build soil carbon: x
- Invest in conservation programs for cover crops: x
- Support deployment of methane digesters: x
- Assist climate-vulnerable communities and those harmed by sea level rise: x
- Conserving public lands and planting trees: x

**Jobs**
- Training: x
- Secure the pensions and health benefits of coal miners: x
- Guarantee five years salary for workers displaced from the fossil fuel industry: x
- Require manufacturing in America for wind and solar: x
- Increase payments into coal’s black lung program by companies or government: Company
  - Biden: Gov’t
  - Buttigieg: x
  - Klobuchar: x