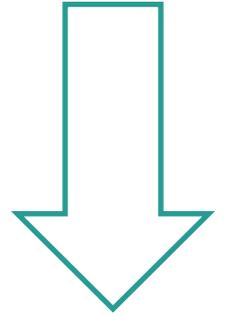


Center for Carbon Removal



ARB CCS Stakeholder Workshop
February 12, 2016

www.centerforcarbonremoval.org

Background: Paris Agreement

196 countries agree to an ambitious goal:

This Agreement...aims to strengthen the global response to the threat of climate change...

by a) Holding the increase in the global average temperature **to well below 2°C** above pre-industrial levels and to pursue efforts to limit the temperature increase to 1.5°C above pre-industrial levels...

>100% Reduction for <2°C Goal

9 in 10 of IPCC scenarios *consistent* with 2°C involve net-negative emissions by 2100

25 GW of negative-emissions power plants shown by IPCC scenarios installed annually in *near-term* (by 2040)

0 existing negative emissions power plants operational today

Negative Emissions CCS



Bioenergy + CCS

Processes include:

- Ethanol
- Municipal solid waste
- Combustion for electricity and/or fuels production

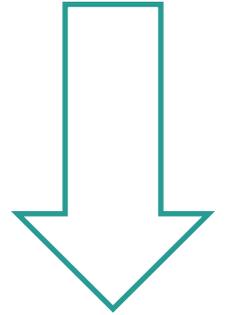


Direct Air CCS

CA and Negative Emissions CCS

- 1) Develop measurement and verification protocols relevant to **all types of CCS**.
- 2) **Demonstrate negative emissions CCS today** → CA lead the world in setting and meeting ambitious climate goals.

Center for Carbon Removal



Positive solutions for negative emissions

www.centerforcarbonremoval.org