CALPINE CARBON CAPTUREBAYTOWN, TEXAS



What is Carbon Capture?

- Carbon Capture and Storage or "CCS" is a vital technology that combats climate change by removing CO2 from the air and permanently storing it thousands of feet underground.
- Calpine is a champion for CCS and supports policies incentivizing the technology. We can deploy CCS to reduce CO2 while ensuring a reliable supply of electricity and protecting and creating thousands of high paying jobs.

The Steps



Capture technology removes carbon dioxide emissions from industrial processes and the air. Capture equipment can be retrofitted to existing facilities or built into new facilities.



Step 2 Transportation

Captured CO2 is transported from the emissions source to appropriate geologic formations.



Step 3
Transformation

The captured carbon is injected thousands of feet underground, where it is safely and permanently stored under layers of impermeable rock where it mineralizes and becomes rock.

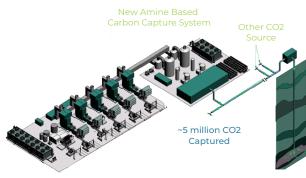
Our Baytown Carbon Capture Project:

preliminary development underway.

Located in Baytown, Texas, the Baytown Energy Center is being actively assessed for a carbon capture project designed to capture 95% or more of CO2 emissions from turbines and auxiliary boilers at this facility. Located less than 10 miles from Calpine's Deer Park Energy Center, this facility is near significant CO2 storage resources along the Texas Gulf Coast. As a combined heat and power generation facility, carbon capture at this facility will enable it to provide low-carbon industrial heat to co-located facilities and low-carbon power to the Texas grid.

More Details:

- About 740 megawatts of low-carbon power and steam.
 Enough to power more than 296,000 homes.
- Up to 2.5 million metric tons per year in CO2 offsets.
- Equivalent to removing 538,673 cars from the road annually.
 FEED (Front End Engineering Design) study, permitting and
- Close to 150 gigatons (330 trillion pounds) of CO2 carbon storage capacity in the Gulf Coast of Texas that can store the carbon dioxide safely and securely, permanently preventing it from entering the atmosphere ancontributing to climate change.
 - Enough storage for the annual emissions of 40,150 coal-fired power plants.



Existing Combined Cycle Plant

- Supplies the adjacent Covestro complex with electricity and steam, as well as added power for the Texas grid.
- Potential employment benefits include 1.5 million construction hours (about 250 full-time employeesfor 3 years) in addition to 25-30 full-time, high-paying clean energy power plant jobs.