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Pathway to Carbon Neutrality in CA

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@WSPAPrez

Investing in Our Shared Energy Future

- Increasing Energy Efficiency
- Carbon, Capture, Usage and Storage
- Renewable Energy – Development and Fuel Formulations
 - Wind
 - Solar
 - Geothermal
 - Biofuels
 - Renewable Diesel and Renewable Natural Gas
 - Electricity
 - Water Management



Net Zero vs Absolute Zero Emissions

- Both IEA and IPCC believe that carbon neutrality cannot be achieved without leveraging technologies that capture and/or remove emissions.
- From a climate perspective, it does not matter if you are reducing emissions from sources, or you are removing emissions from the atmosphere.
- Bans and mandates stifle innovation.
- Create policies that incentivize industry to be part of the solution.
- All-of-the-above energy strategy is a critical approach to carbon neutrality.



CCUS IN NUMBERS

21

large-scale CCUS
facilities operating
globally, four coming
on stream in 2018

Source: Global CCS Institute "Global Status of
CCS: 2017 – Join the Underground" pg. 9



These 21 facilities have a CO₂
capture capacity of **37 million tonnes**
per annum (Mtpa)



220 million tonnes of man-made CO₂
has been injected deep underground
to date



CCUS is the only technology able to
decarbonise the industrial sector



Pathways for Successful CCUS

- ✓ Creating a single source permitting process
- ✓ Clearing a predictable, sustainable credit pathway
- ✓ Considering CCUS within the Cap & Trade program structure
- ✓ Creating a streamlined CEQA process





ALL OF THE ABOVE ENERGY MIX

