



# Low carbon transport energy storage

Why is CO<sub>2</sub> transport and storage important?

Why is it important? In the Net Zero Emissions by 2050 Scenario, CO<sub>2</sub> transport and storage infrastructure underpins the widespread deployment of carbon capture, including carbon dioxide removal via direct air capture with storage and bioenergy with carbon capture and storage.

What is CO<sub>2</sub> transport & storage infrastructure?

Transport and storage infrastructure for CO<sub>2</sub> is the backbone of the carbon management industry. Planned capacities for CO<sub>2</sub> transport and storage surged dramatically in the past year, with around 260 Mt CO<sub>2</sub> of new annual storage capacity announced since February 2023, and similar capacities for connecting infrastructure.

What is a low carbon fuel?

Low carbon fuels are transport energy carriers with a lower greenhouse gas footprint than existing fuels on a lifecycle basis. Although some low carbon fuels could be blended with existing fuels - making them practical options to reduce GHG emissions in the short-term - others may require new vehicles and in

How much CO<sub>2</sub> can a 240 km carbon tank line transport?

The 240 km Alberta Carbon Trunk Line in Canada, operated by Wolf Midstream since 2020, has a design capacity of around 15 Mt CO<sub>2</sub> /year and aims to connect more facilities in the future, even though it currently transports less than 2 Mt CO<sub>2</sub> /year from two sources.

Why is hydrogen combustion important for a low-carbon energy system?

As hydrogen production becomes more sustainable, hydrogen combustion will play a vital role in transitioning towards a low-carbon energy system. Industrial processes for hydrogen utilization technologies offer significant potential for reducing emissions, enabling carbon capture, and promoting a sustainable energy system.

Are low carbon fuels a barrier to decarbonization?

Some low carbon fuels are shown to have relatively modest barriers to widespread deployment, but others require more substantial changes to achieve deep levels of decarbonization.



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