



Capture the opportunity

drax

Carbon
Removals





Going further, faster with carbon removals

The Opportunity

Carbon dioxide removals (CDRs) through BECCS (Bioenergy with Carbon Capture and Storage) by Drax are:



Essential

The science is clear. To tackle climate change and reach net zero, the world needs to remove carbon dioxide that's already in the atmosphere — reducing dangerous CO₂ levels that are already causing extreme weather events, rising sea levels, and increased forest fires.



Permanent

Procure CDRs that give your business confidence that carbon is being removed from the atmosphere and permanently stored.



Affordable

BECCS by Drax is one of the most affordable CDR technology available. With CDRs available at competitive prices.



Guaranteed

Long term contracts for our high integrity carbon removal process guarantees sustainability and financial certainty.



Complementary

Working alongside carbon reduction measures and traditional offsets, CDRs can be delivered rapidly at scale through BECCS by Drax, enabling you to meet your climate commitments faster.



Exponential

Purchasing CDRs not only complements your business, it enables the growth of the carbon removal market.



Decarbonize, revitalize

BECCS by Drax will be one of the largest carbon removal projects in the U.S

It will permanently remove 2 million tons of carbon from the atmosphere while also generating 2 terawatt hours of 24/7 renewable power. And this is just the beginning. Drax is developing a pipeline of BECCS projects in the U.S. that will be available as early as 2025.

BECCS is the most scalable and affordable carbon removal technology available and can be deployed quickly — playing a key role in achieving a clean energy grid by 2035. BECCS offers high-integrity, permanent carbon removals that can complement your business strategy to decarbonize directly and enable you to meet your net zero goals. Now is your chance. Capture the opportunity and go further, faster with BECCS by Drax.

The state of play

The world's temperature is predicted to rise by 3.2 C this century — more than double our 1.5 C target

Every business sector will need to reduce its carbon emissions, but reducing emissions won't be enough. To meet our climate targets on time, we must also remove carbon from the atmosphere.

Beyond this, the U.S. will need to remove 0.8 to 2 billion¹ metric tonnes of carbon by 2050 to do its share of tackling climate change. Given the scale of the challenge

and what's at stake, experts everywhere, including the Intergovernmental Panel on Climate Change (IPCC), the California Air Resources Board (CARB) and the U.S. Government, agree that to reach net zero we must remove dangerous levels of carbon dioxide from the atmosphere.

¹ Princeton Net Zero America Project, Final Report (2020), Page 34

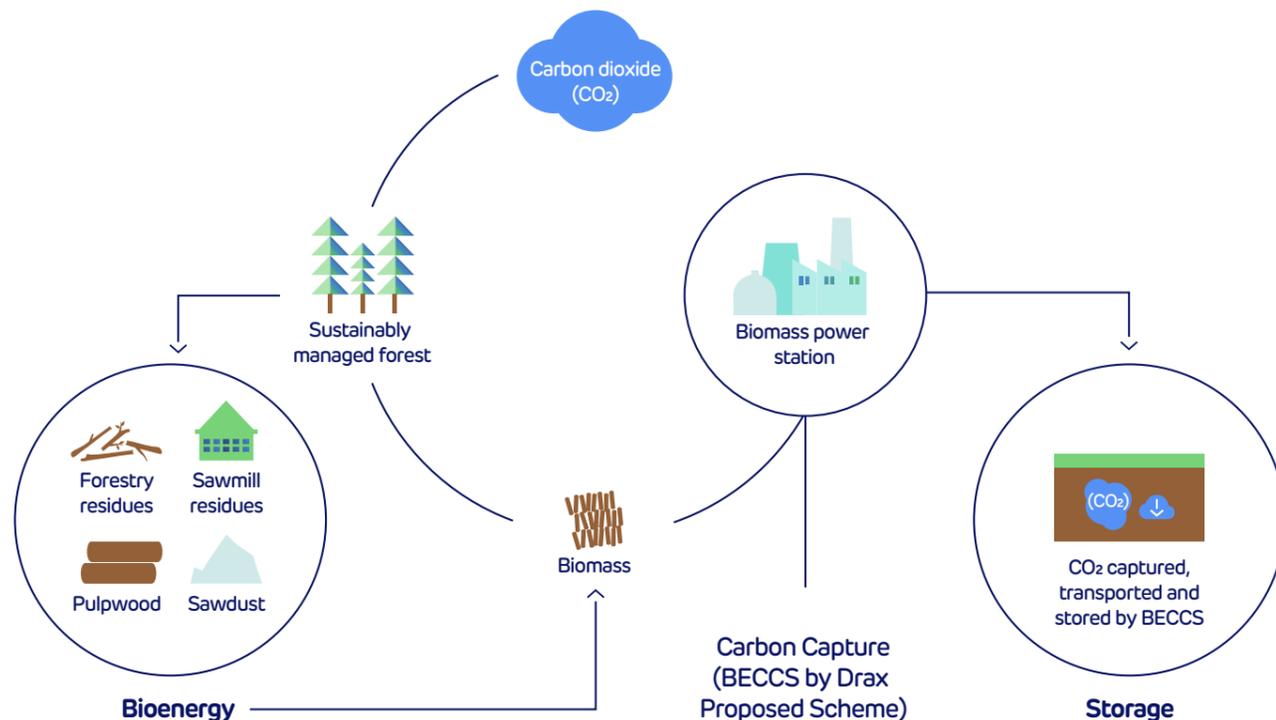


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How it works

The process of BECCS

BECCS is the process of generating renewable electricity from sustainable biomass. The carbon created during the process is then captured and permanently stored — not only reducing carbon emissions but removing them permanently from the atmosphere.



BECCS by Drax can help the U.S. provide climate leadership quickly and affordably by enabling the rapid procurement of renewable, 24/7 baseload electricity and capturing carbon from the atmosphere.



Why is BECCS important for decarbonization?

Unlike the linear, irreversible process of emitting carbon from fossil fuels, sustainable biomass exists in a closed carbon cycle. By adding carbon capture and storage technology, the carbon cycle is broken. Instead of being released into the atmosphere, carbon is transported and stored in a secure, geological formation underground, producing what's known as an engineered carbon dioxide removal.

How is the carbon removed from the atmosphere?

BECCS uses a post-combustion carbon capture process, where solvents isolate carbon from the flue gases produced when the biomass is combusted. The captured carbon is pressurized and turned into a liquid-like substance so it can then be permanently sequestered underground.

How is the carbon stored?

Captured carbon can be safely and permanently injected deep underground into naturally occurring porous rock formations. The carbon is trapped in multiple ways:

1. **Structurally** — an impermeable caprock above the reservoir stops CO₂ migrating back to the surface.
2. **In solution** — porous rocks often contain salty water which CO₂ dissolves into.
3. **Residually** — as tiny isolated bubbles in the pore space of the rock.
4. **As a mineral** — CO₂ can react with the surrounding rock creating new solid minerals.

The right biomass



Sourcing the right biomass

Ensuring the biomass that we use for BECCS is sustainable and responsibly sourced is fundamental to our business. Sustainable biomass feedstock comes from:



Residues of forest harvesting, an activity that is carried out to maintain forests while also meeting the demand of solid wood product sectors such as furniture and construction.



Low-grade roundwood or pulpwood, often resulting from the sustainable forest management activity, "thinning," which foresters carry out to improve the density of trees. It involves the removal of trees that are either dead, rotting, or diseased, to improve the quality and growth of the remaining trees.

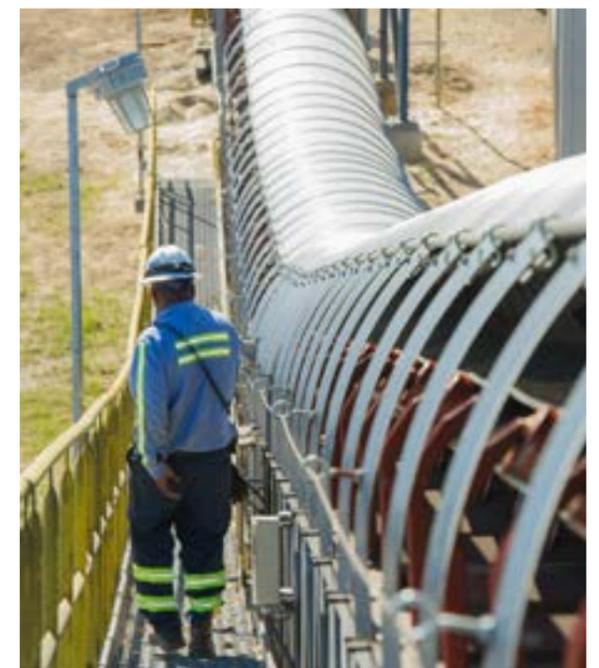


Sawmill residues (or "secondary residues") such as sawdust, chips, and agricultural waste.



These activities encourage growth and reduce the risk of forest fires and pest infestation, safeguarding biodiversity across a range of species.

The National Climate Assessment found that the number of heatwaves, heavy downpours, and major hurricanes have increased in the U.S., and the strength of these weather events has also increased. With more extreme climate conditions expected, carbon removals are needed to help mitigate and reduce the impact.



Enabling a positive future for us all



Why you should partner with Drax

Drax believes in creating climate, nature, and people positive outcomes through using sustainable biomass for both renewable power and CDRs. We have a proven track record in decarbonization, transforming Western Europe's largest coal-fired power station to use sustainable biomass and cutting our own fossil carbon emissions by more than 90% since 2012. We have a multi-site, multi-technology portfolio of flexible, low-carbon and renewable power assets, are a world leader of sustainable biomass production, and aim to capture 12 million tons of carbon removals every year by 2030.

This is an exciting opportunity to be part of achieving a net zero world through early access to high-integrity permanent carbon removals – whether you're just beginning your decarbonization journey or are looking to add to your existing portfolio of carbon removals. Investing in carbon removals from BECCS by Drax is investing in the future.

Let's capture the opportunity together. Get in touch today.



www.drax.com/USBECSS



USBECSS@Drax.com



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