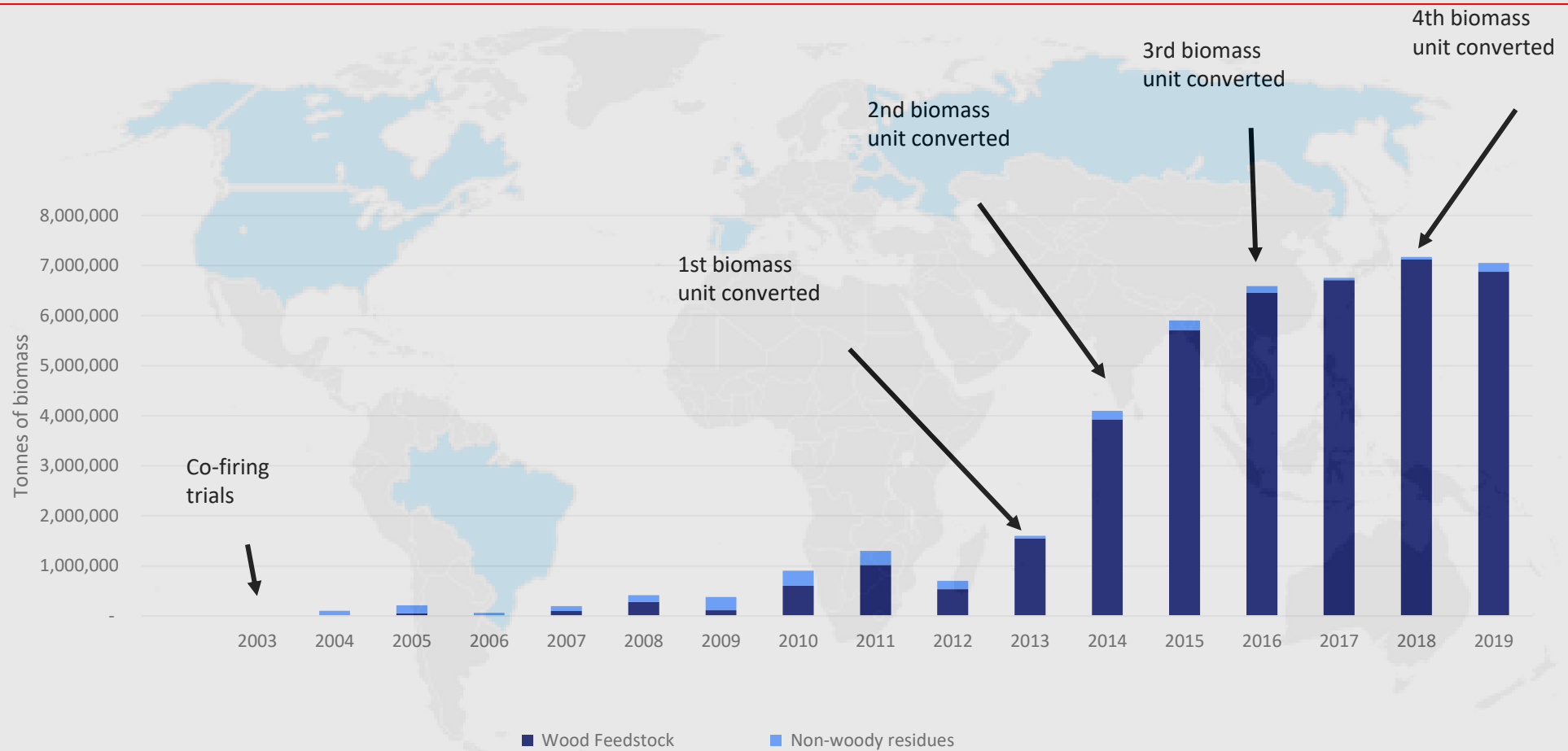


Drax experience: Sourcing and using biomass from inside and outside EU

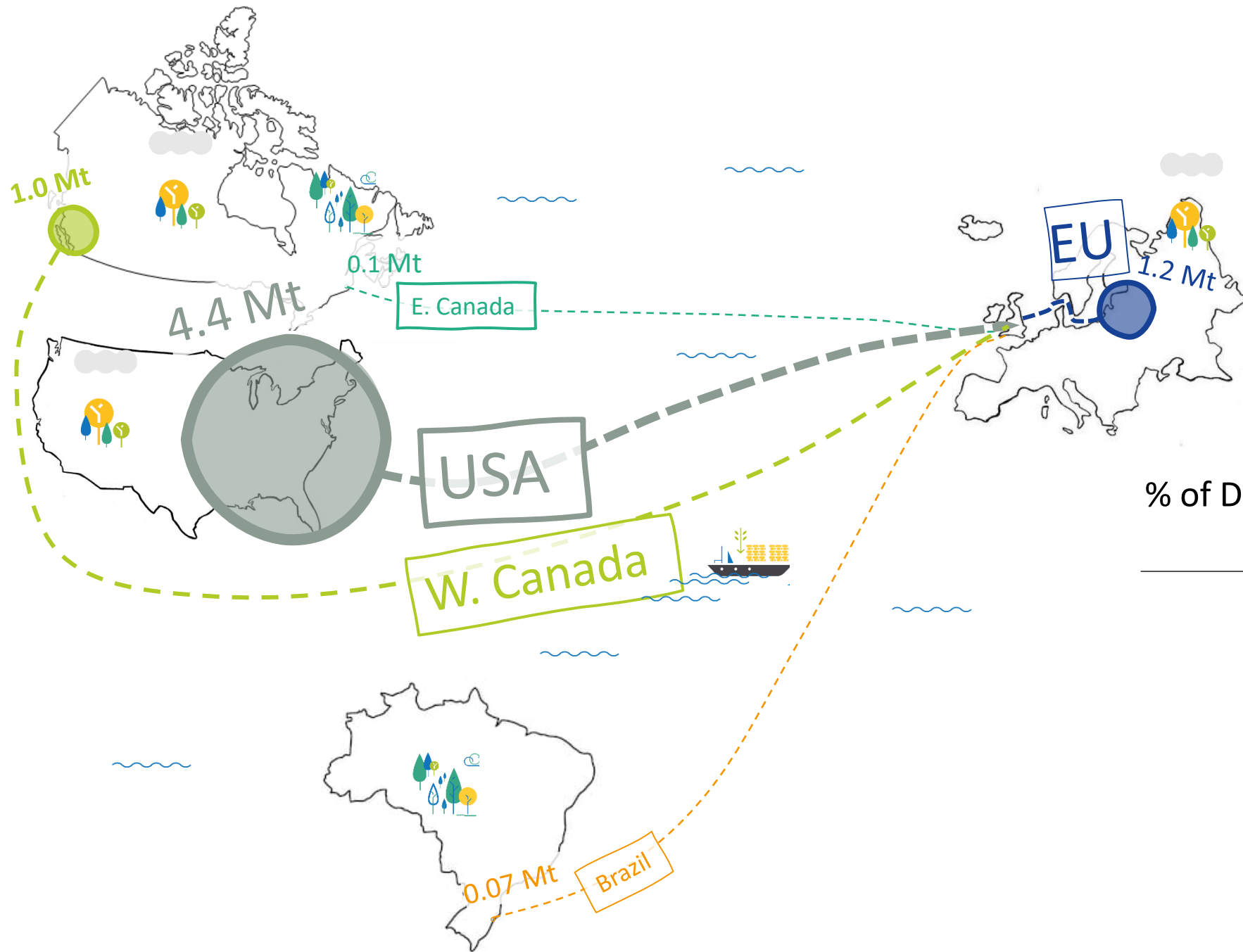
Richard Peberdy

Drax history with biomass

Drax has a long history with biomass with both woody and non woody, from around the world. Research teams have investigated many feedstocks over the years.



Drax Power use of biomass - 43 million tonnes consumed



% of Drax pellets by region
(6.8 million tonnes)

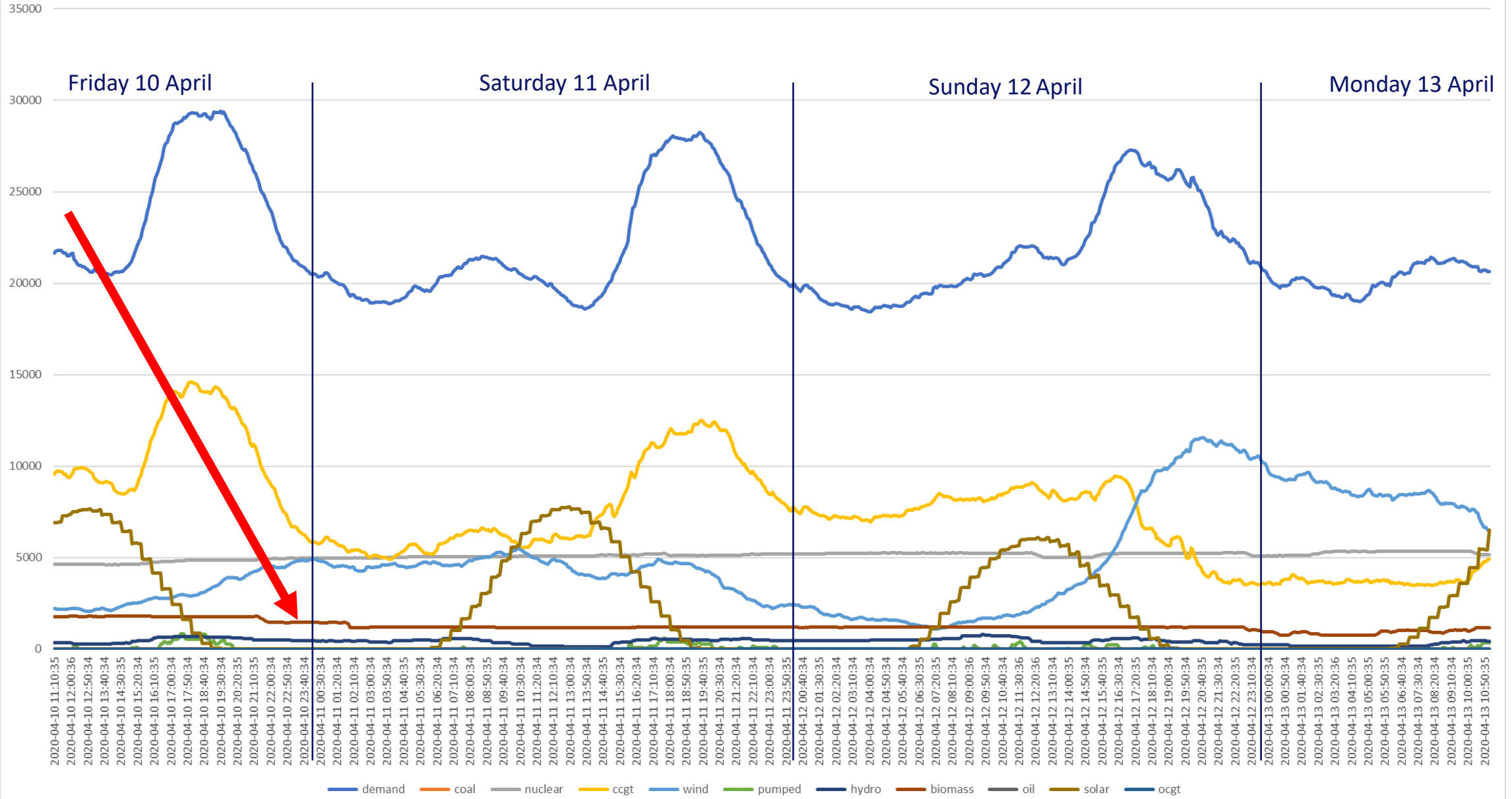
- USA: 65%
- W. Canada: 15%
- E. Canada: 2%
- EU: 17%
- Brazil: 1%

Effective regulation and standards are essential

- From the start of using biomass, Drax embedded sustainability requirements in supply contracts.
 - Demonstrating compliance is a contractual requirement, checked by 3rd party auditors
 - Feedstock requirements AND greenhouse gas data for every stage of chain.
- UK Renewables Obligation Order requirements
 - Sourcing to be in a way consistent with Forest Europe sustainable Forest Management Criteria
 - Productivity maintained, harvest levels do not exceed capacity, ecosystem health and vitality maintained etc
- European Timber Regulation, RED (& RED II)
- Existing Forest Management Standards
- **Brought together in Sustainable Biomass Programme**



April 2020 Bank holiday Weekend
 Very low demand - biomass still needed



BECCS & Negative Emissions

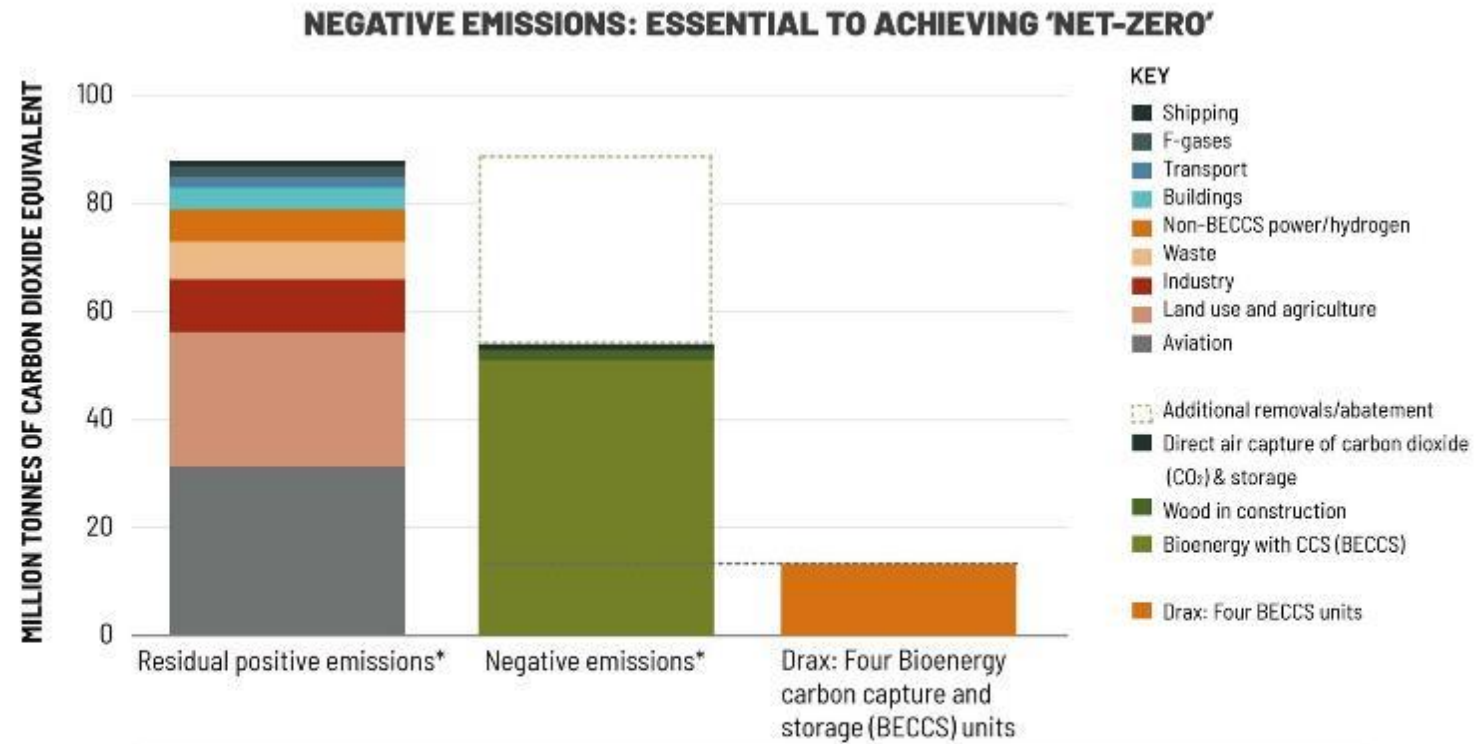
Net Zero by 2050

For the UK to achieve “Net Zero by 2050”, **negative emissions technology must be deployed to counteract the residual positive emissions** left over from sectors such as shipping and aviation;

The Committee on Climate Change (CCC) has recommended that **Bioenergy with CCS at scale should be deployed in at least one industrial cluster by 2030**

We’ve set an ambition to be the **World’s first carbon negative company**. With the right policy framework – we believe **this is achievable within a decade**.

The chart below shows the amount of negative emissions that full BECCS deployment at Drax can contribute to the UK achieving “Net Zero by 2050”



*Source: Committee on Climate Change, 'Net Zero' report (2019)

Notes: Sectoral emissions and contributions from negative emissions presented for the Further Ambition scenario. The contribution from 'additional negative emissions abatement' refers to the options to go beyond the Further Ambition scenario and achieve net-zero emissions, which can be done with additional negative emissions and/or further reductions of positive emissions (see Chapter 5).

Conclusions

- The past decade has provided a wealth of experience and learning.
 - Though sourcing in multiple geographies has challenges, it can be done.
 - Regulation and multi-stakeholder certification schemes help provide certainty.
 - There are multiple benefits today and tomorrow from this technology
-
- In workshop 4, we will take a deeper dive into the carbon story in the places where we source.



thank
you