

# What is the Industrial Clusters mission?

Our aim to create a net-zero carbon industrial cluster by 2040 is a world first. We want to attract innovators, investors and problem solvers to create a low-carbon exemplar that others in the UK and internationally can learn from and replicate.

**“We will establish the world’s first net-zero carbon industrial cluster by 2040 and at least one low-carbon cluster by 2030”**

## This will be achieved by:

- ▶ Reducing emissions in one cluster to **net-zero by 2040**.
- ▶ In at least one cluster, by 2030:
  - **The low-carbon infrastructure** needed to support industrial decarbonisation will be in place and operational, attracting new investment and innovation.
  - **Multiple industrial facilities** will already have reduced their emissions, by the greatest possible extent.
- ▶ Positioning UK clusters as top areas for global inward investment and driving demand for low carbon products and technologies by **harnessing the power of markets, the public sector, universities and local communities**.

The mission is backed by public investment through the **Industrial Strategy Challenge Fund**

Based on high-emissions sites in scope of the EU ETS - may not be exhaustive

## Largest industrial clusters by emissions

**Grangemouth**  
4.3MtCO<sub>2</sub>

**Teesside**  
3.1MtCO<sub>2</sub>

**Merseyside**  
2.6MtCO<sub>2</sub>

**Humberside**  
12.4MtCO<sub>2</sub>

**South Wales**  
8.2MtCO<sub>2</sub>

**Southampton**  
2.6MtCO<sub>2</sub>

# What are industrial clusters and why are they important to the UK?

**Industrial clusters are areas with a number of industrial sites**

For instance those producing:



**Clusters are key hubs of local economic activity and an important part of the UK economy.**

They offer high quality jobs that tend to pay above the average UK wage and are key to local supply chains and the local economy.

**Industry that uses energy intensively, within and outside of clusters, has a value of around £150 billion to the UK economy (GVA)**

They secure around

**1.5 million jobs**

They export goods and services worth around

**£320 billion**

## Why do they matter to our future clean economy?



Industry accounts for around **a quarter of all UK greenhouse gas emissions** - with more than two thirds of these industrial emissions coming from a small number of energy intensive industries.



For the world to meet the ambitions of the Paris Climate Change Agreement, industry needs to reduce its emissions. This is a challenge that needs new cutting-edge tech, like **Carbon Capture Usage and Storage** and **low-carbon fuels** such as **hydrogen, bioenergy** and **clean electricity**.



The move to **low carbon industry is a huge opportunity** - with the chance for the UK to take the lead and seize a large share of a growing global market.



**We want to show what is possible in the UK** - to transform our industry at home and encourage other countries to use these technologies in the future.

## Get in touch

If you're an innovative business working to support Clean Growth, we want to hear from you. Write to us at [GrandChallenges@BEIS.gov.uk](mailto:GrandChallenges@BEIS.gov.uk)