The Paris Agreement makes it very clear that we need to take significant steps towards decarbonisation of our economy by 2050. The Wuppertal Institute for Climate, Environment and Energy has formulated three <u>possible</u> *decarbonisation pathways* as well as one *business as usual pathway* for the Port of Rotterdam.

The pathways cover different levels of ambition and different technologies. No single pathway is an accurate prediction of the future, the future will most likely be shaped by a combination of them.

## PATHWAYS TO A DECARBONISED PORT

#### **CLOSED CARBON CYCLE**

The energy system is fully decarbonised by a radical shift to renewables. Carbon from fossil feedstock is kept in a circular system of production and recycling. Both lead to a radical overhaul of the port-industrial cluster.

#### **BIOMASS AND CCS**

A drastic shift towards 100% renewable energy production and large scale CCS help virtually eliminate CO<sub>2</sub> emissions. Fuel production shifts from fossil to renewable feedstock (both electric and biobased).

#### **TECHNOLOGICAL PROGRESS**

Both rapid implementation of best available technologies and large scale CCS for power plants and parts of refineries help decrease CO<sub>2</sub> emissions.



### **RIGHT HERE RIGHT NOW** MAKE IT HAPPEN.

Current activities in the port such as fuel and power production, are major contributors to CO<sub>2</sub> emissions and require drastic rethinking. The transition towards a decarbonised economy offers many new business opportunities such as offshore wind, biobased chemistry, demandside-management and energy storage,

CO₂ transport and storage and synthetic fuel production. The Port of Rotterdam is in a unique position to be frontrunner in this transition, because of its scale, its location, its excellent infrastructure, the companies already present, the combined available know-how and ambitions. **Will you join us?** 





COLOR/S



### RIGHT HERE RIGHT NOW

Pathways to a decarbonised port









# RIGHT HERE RIGHT NOW

Pathways to a decarbonised port