

**RWE**

**BECCUS @ Amer & Eemshaven  
Power Station**



# RWE CO<sub>2</sub> neutral in 2040

## Growing Green: Ambitious sustainable strategy

**>4 GW**

Expansion of  
capacity per  
annum

**> 100 GW**

development  
pipeline

**> 65 GW**

sustainable capacity  
in 2030

**€55 bn**

Investments  
2024 - 2030

# Our goals for the energy system in 2050



## Secure & Affordable

Recent events show once more, that security of supply and affordability are **crucial for our prosperity**



## Sustainable

The system needs to be **sustainable, circular** and something we can give to our **future generations**



## System integration

With **wind and solar being the workhorse of the electricity system** we need clever system integration e.g. hydrogen, batteries and significant share of **CO<sub>2</sub> free dispatchable power**



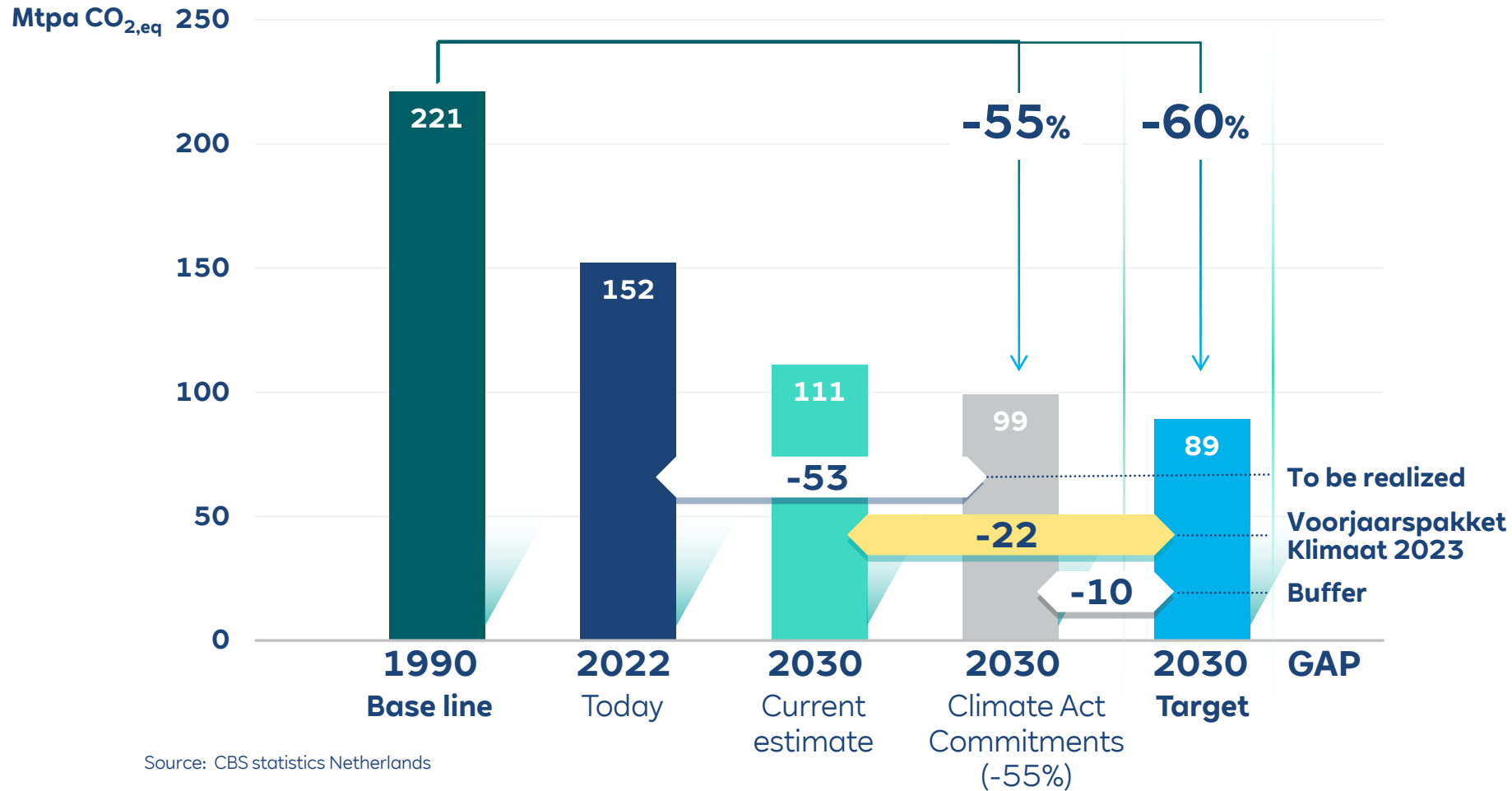
## Neutral to Negative

All sectors become CO<sub>2</sub> neutral, the electricity sector needs to reach **net zero by 2035** and become **CO<sub>2</sub> negative** afterwards

**Our bottom-line: the electricity system needs to **grow by 400%** whilst balancing these goals**

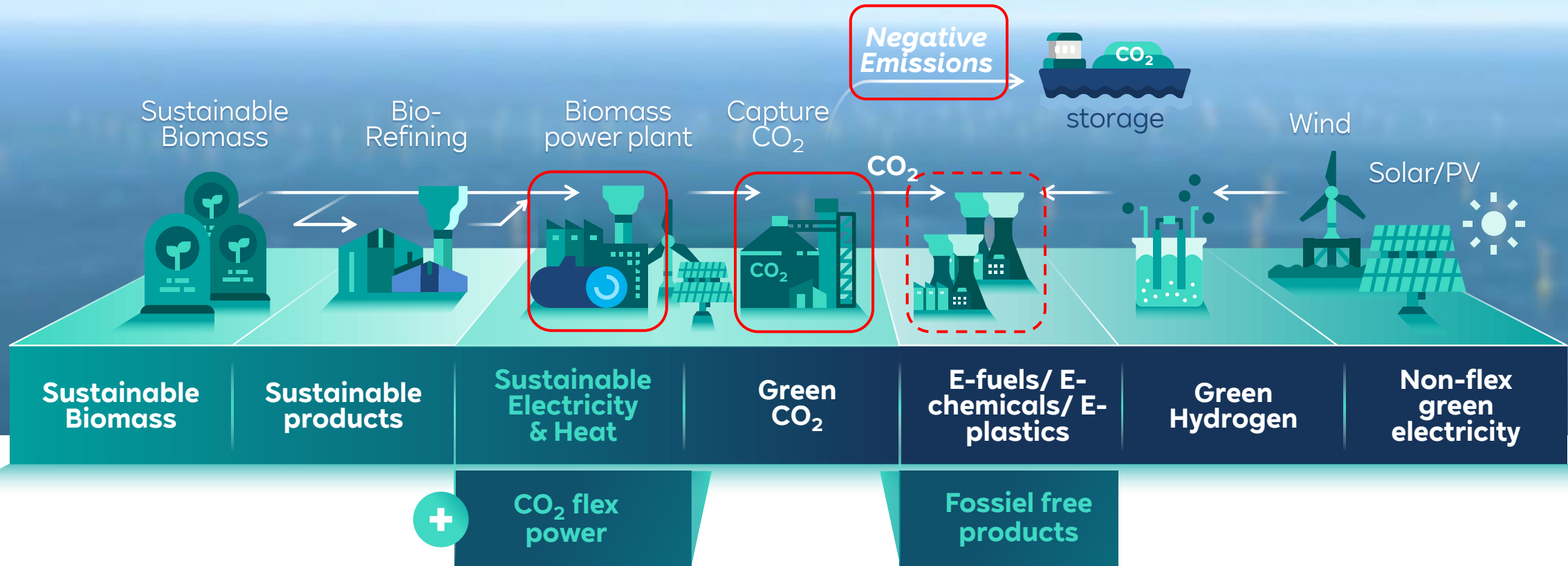
# CO<sub>2</sub> reduction efforts need to step up

## Further reductions are more difficult to achieve



# BECCUS Value Chain

## Realising negative emissions\*





# Our powerplants can deliver negative emissions\*

## Security of supply and 11 – 14 Mt negative emissions a year



- 1560 MW<sub>el</sub> (two units) sustainable, flexible power
- **8 – 10 Mt/year negative emissions\***
- **Supplier of green CO<sub>2</sub>\***



- 600 MW<sub>el</sub> sustainable, flexible power
- 350 MW<sub>th</sub> sustainable heat
- **3 – 4 Mt/year negative emissions\***
- **Supplier of green CO<sub>2</sub>\***



# Carbon Capture conversion @ Amer\*

## Visualization – current situation





# Carbon Capture conversion @ Amer\*

## Visualization – Situation in 2028+

