

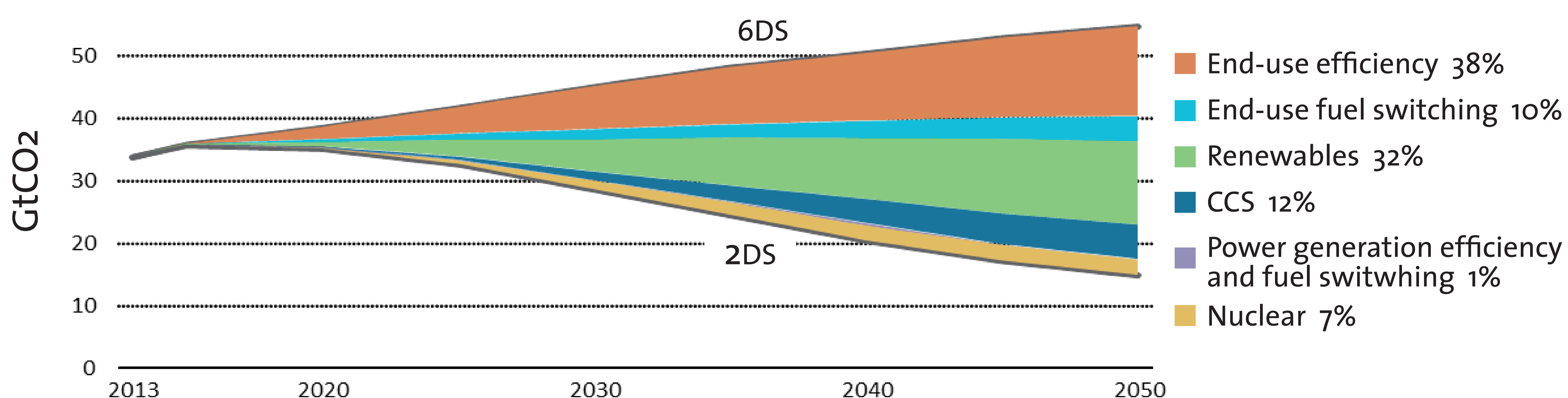
Why we need CCS (CO₂ Capture & Storage)

Without CCS, it will be extremely challenging and more costly to reach the emission reduction targets of the COP21 Paris Agreement

The challenge

Enable global development AND a reduction in CO₂ emissions. Consider that by 2050:

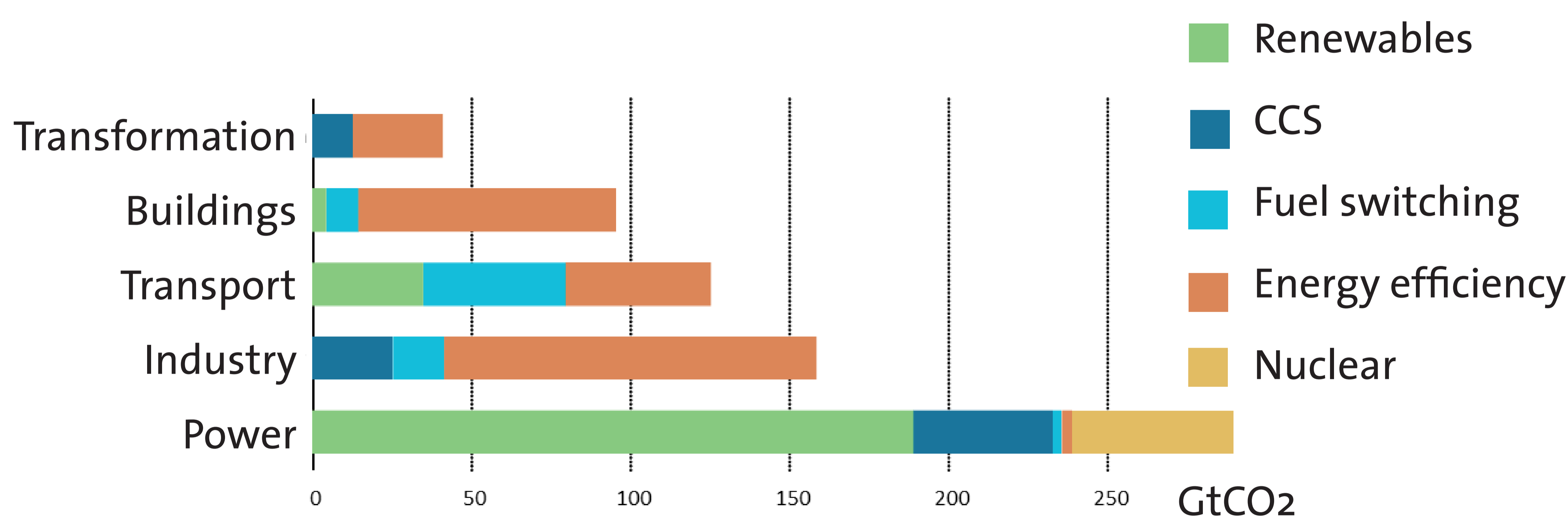
- global population will increase by 25%
- global GDP will increase by 150%
- global electricity demand will increase by 50-70%, as will that for
- steel, cement, chemicals from coal, plastic and other commodities



Contribution of technology area and sector to global cumulative CO₂ reductions

The reality

We need to apply all the decarbonisation tools we have to keep average global temperature rise below 2°C.



Efforts are needed in all sectors

The vital role of CCS

According to the IEA Energy Technology Perspectives 2016:

- CCS can contribute 12% of the needed CO₂ reductions
- CCS is the **only** method able to reduce emissions from many industrial processes (cement & steel manufacture, etc.)
- the cost of decarbonisation will be much greater without CCS
- when combined with bio-energy, CCS can reduce CO₂ levels in the atmosphere (essential for a neutral CO₂ net balance later this Century)