



# PATHWAYS TO SUSTAINABLE INDUSTRIES

## Energy efficiency and CO<sub>2</sub> utilisation

R&I Projects for Policy

**20%** of global CO<sub>2</sub> emissions and natural resource use.

Process industries are resource intensive. They use energy to transform raw materials to supply products to all value-chains.



Energy efficiency and CO<sub>2</sub> utilisation are two valuable pathways to decouple production from fossil resources, which are essential to fighting climate change and achieving a sustainable society.



7 million jobs

Process industries provide **jobs** and produce **wealth**.



€2000 billion annual turnover

The aim is to achieve **highly competitive industries** that are also **clean and sustainable**.



### Research for new and better solutions

The EU has invested in research and innovation to find solutions.

**560** projects have produced results to :



develop and deploy novel green technologies

help industry become more efficient and environmentally friendly

achieve the EU's greenhouse gas reduction targets of **80% to 95%** by 2050.



Emissions savings of **22%** compared to current practices and significant improvements in **energy savings** and **operating costs**.

### Actions for policymakers

Fund demonstration projects + improve access to finance ► build investor confidence

Introduce standardised metrics ► enhance R&I funding and decision-making.

Extend energy audits scope and auditors capacity building ► deployment of cutting-edge energy efficiency technologies.

Harmonised life-cycle sustainability assessment + regulatory and market measures ► realise the full potential of CO<sub>2</sub> utilisation.

Remove regulatory and knowledge barriers to industrial symbiosis ► unlock unexploited potential of industrial waste streams and enhance circular utilisation of resources.

See also:  
[http://ec.europa.eu/research/industrial\\_technologies/index\\_en.cfm](http://ec.europa.eu/research/industrial_technologies/index_en.cfm)  
<https://www.spire2030.eu/>  
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