



# **Carbon Neutrality Project**

## **Decarbonizing Energy Intensive Industries**

**Workshop on Pathways to Effectively Decarbonizing Industry – GEEE 8 and 11<sup>th</sup> IFESD**

20 September 2021



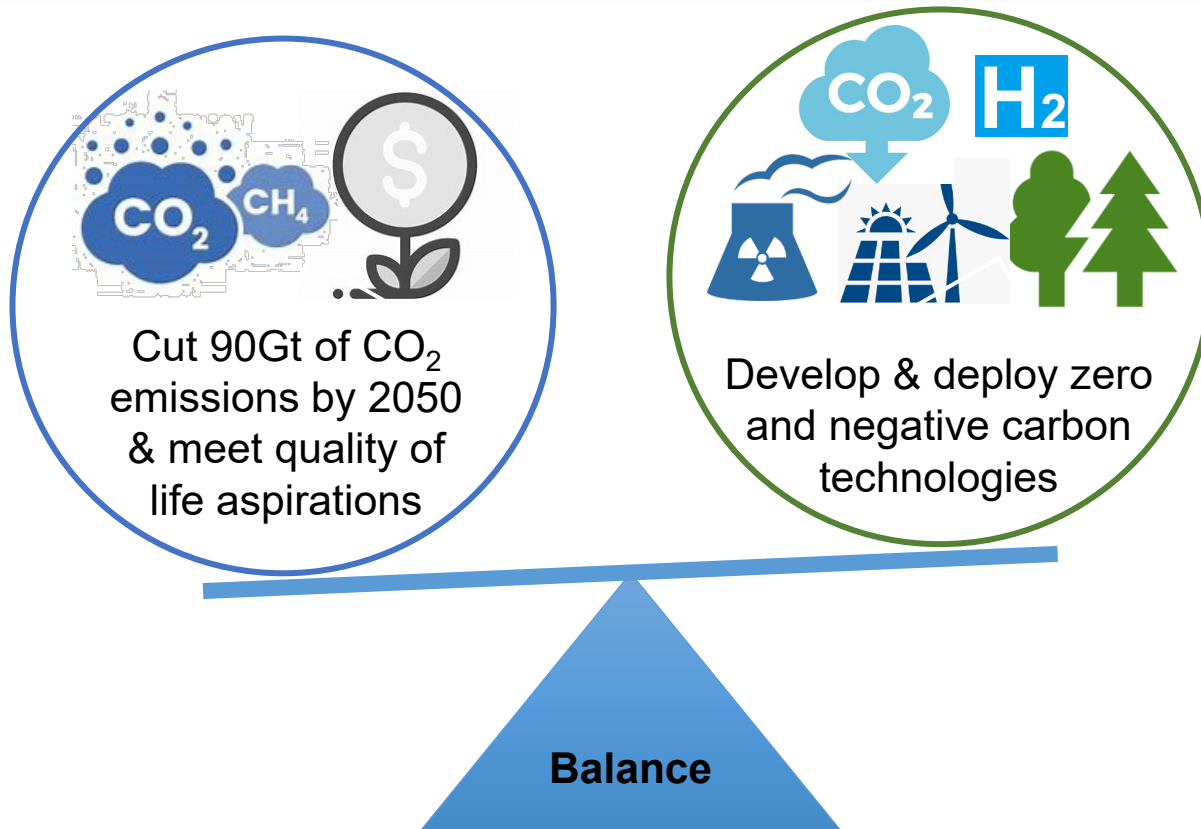
# Carbon Neutrality across Power and Energy Intensive Industries

ENERGY



**Project Objective:** Attaining carbon neutrality across power and energy intensive industries in the UNECE region.

**Key question:** What is the available carbon budget (% total GHG target by 2050) for power and energy intensive industry in the UNECE region?

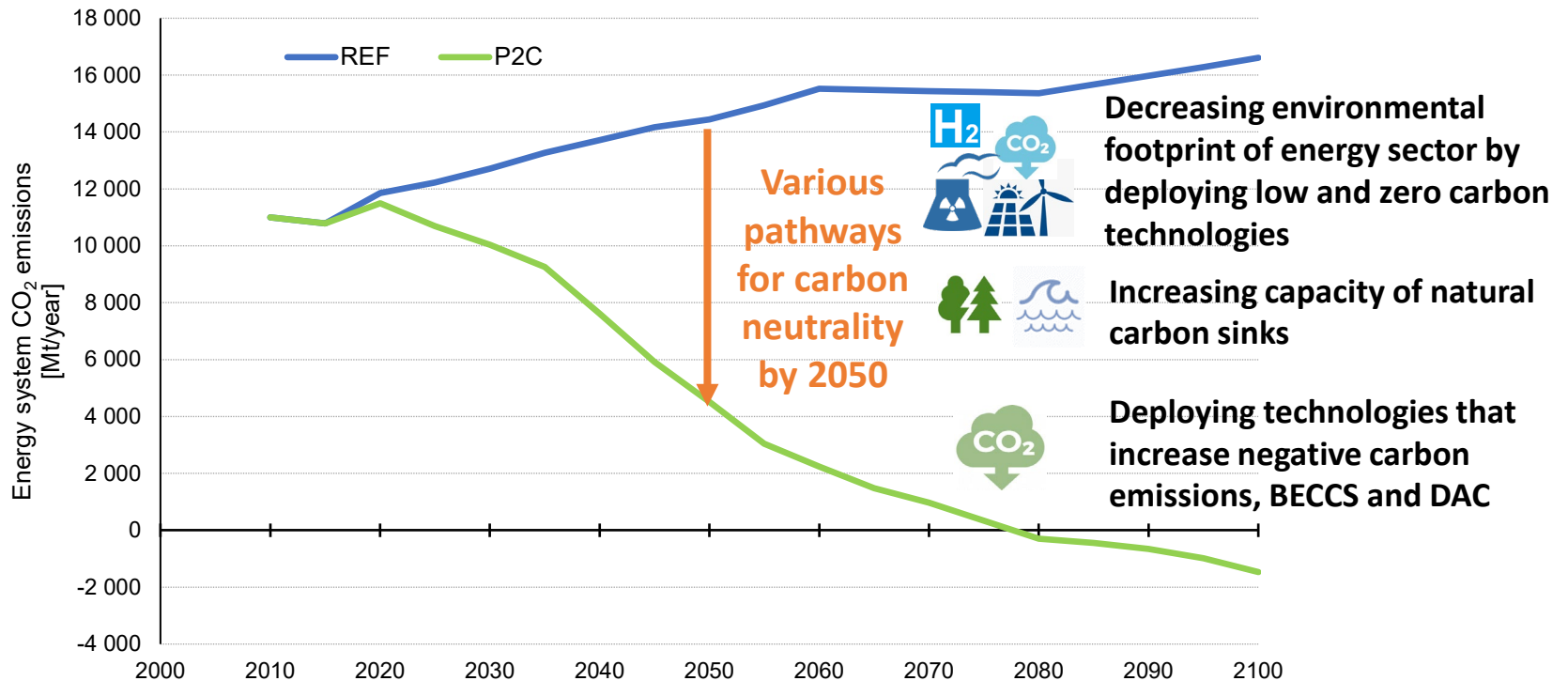


# Defining common objective and timeline

## ENERGY



UNECE countries must cut/capture at least 90Gt of CO<sub>2</sub> by 2050 to meet 2°C. There are variety of pathways to attain carbon neutrality in the UNECE region.



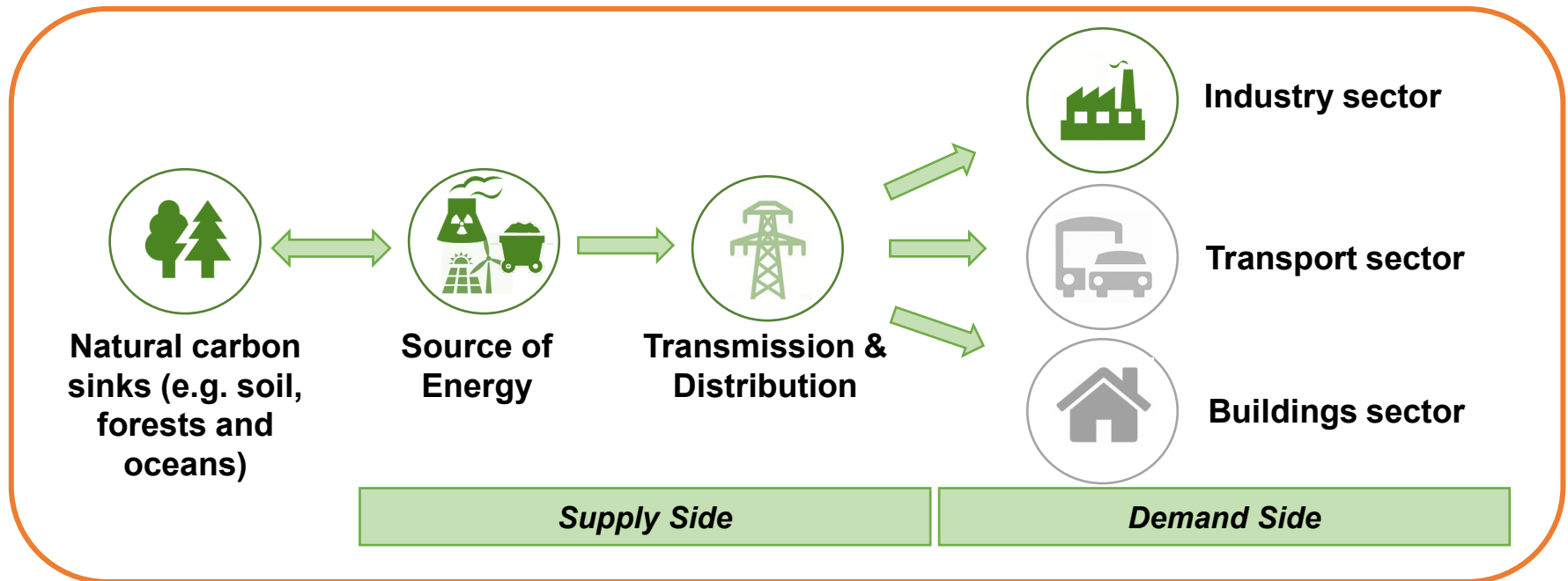
# Holistic Energy System Approach

## ENERGY



Taking whole system approach.

Attaining carbon neutrality through balancing emissions with carbon removal – through natural systems, sector coupling and integrated approach.



# UNECE Toolkit for policy makers to make informed decisions and attain carbon neutrality

## ENERGY



**TECHNOLOGY BRIEF**  
**CARBON CAPTURE, USE AND STORAGE (CCUS)**



**TECHNOLOGY BRIEF**  
**HYDROGEN**



**TECHNOLOGY BRIEF**  
**NUCLEAR POWER**

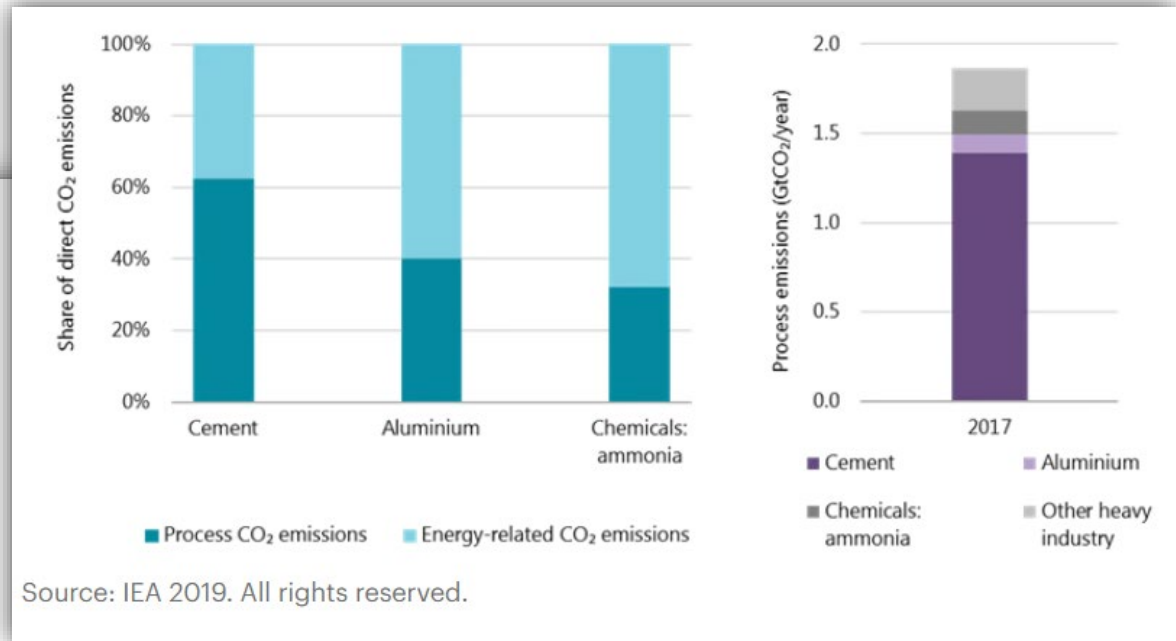
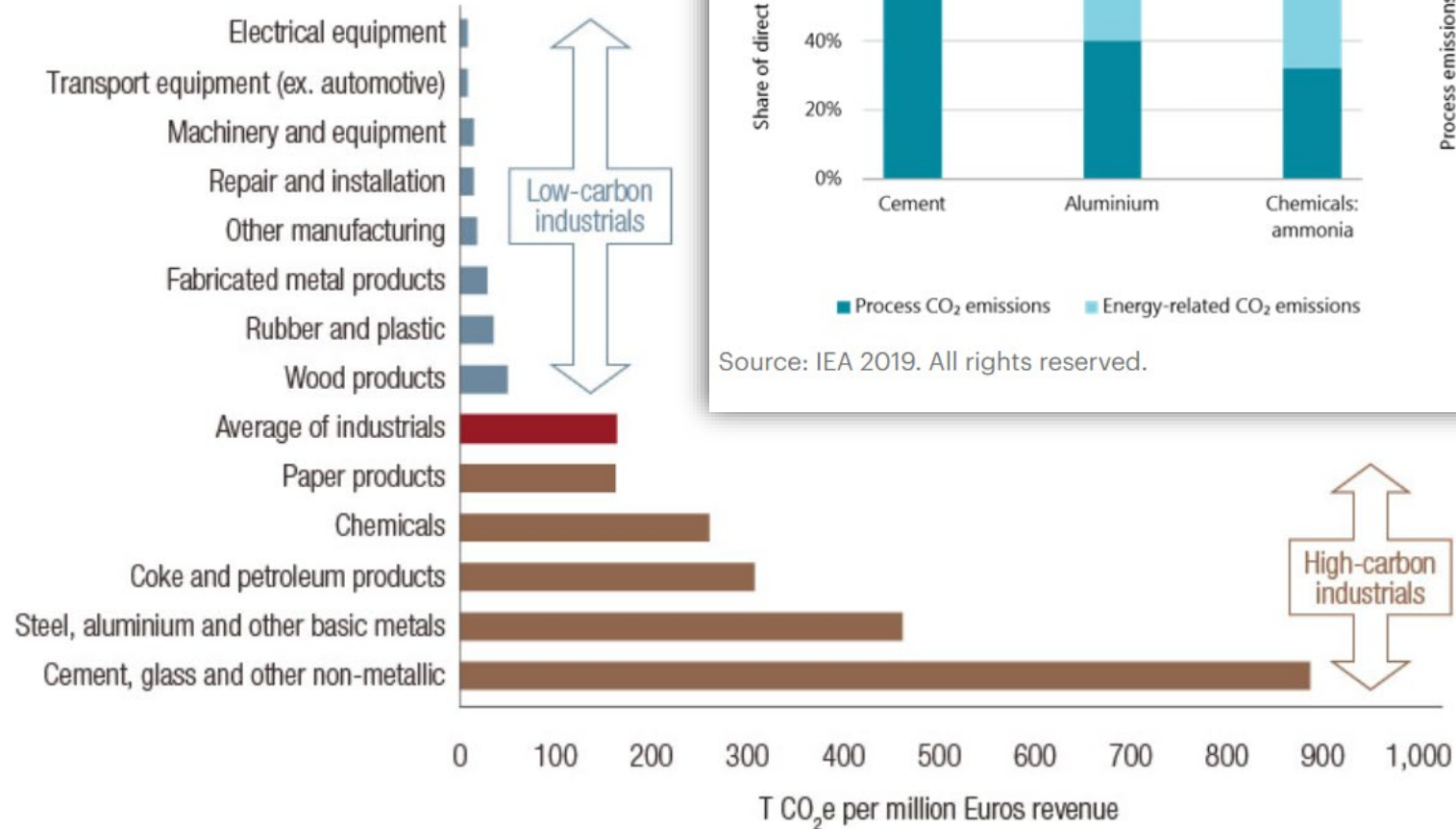


**TECHNOLOGY BRIEF** | DECARBONISING ENERGY INTENSIVE  
INDUSTRIES IN UNECE REGION



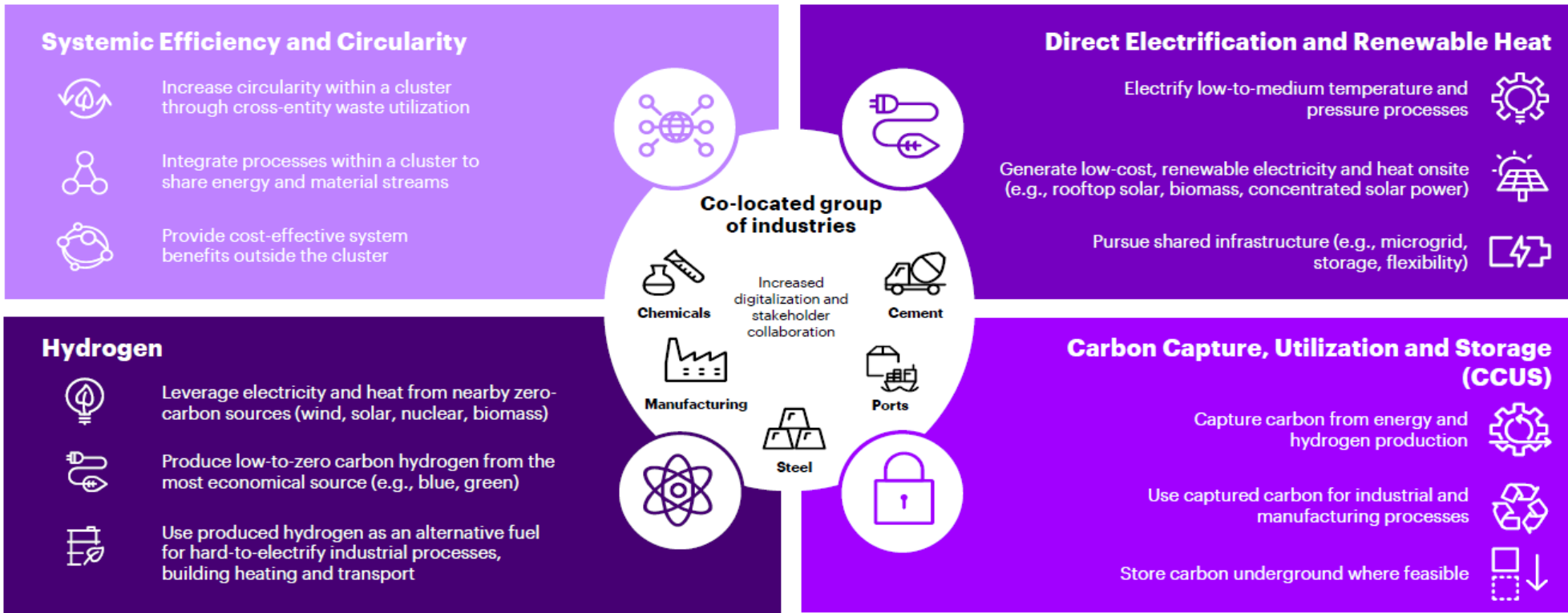
# Targeting energy intensive industries

## ENERGY



# Net zero solutions for carbon neutral energy intensive industries

## ENERGY



Source: Accenture and WEF 2021



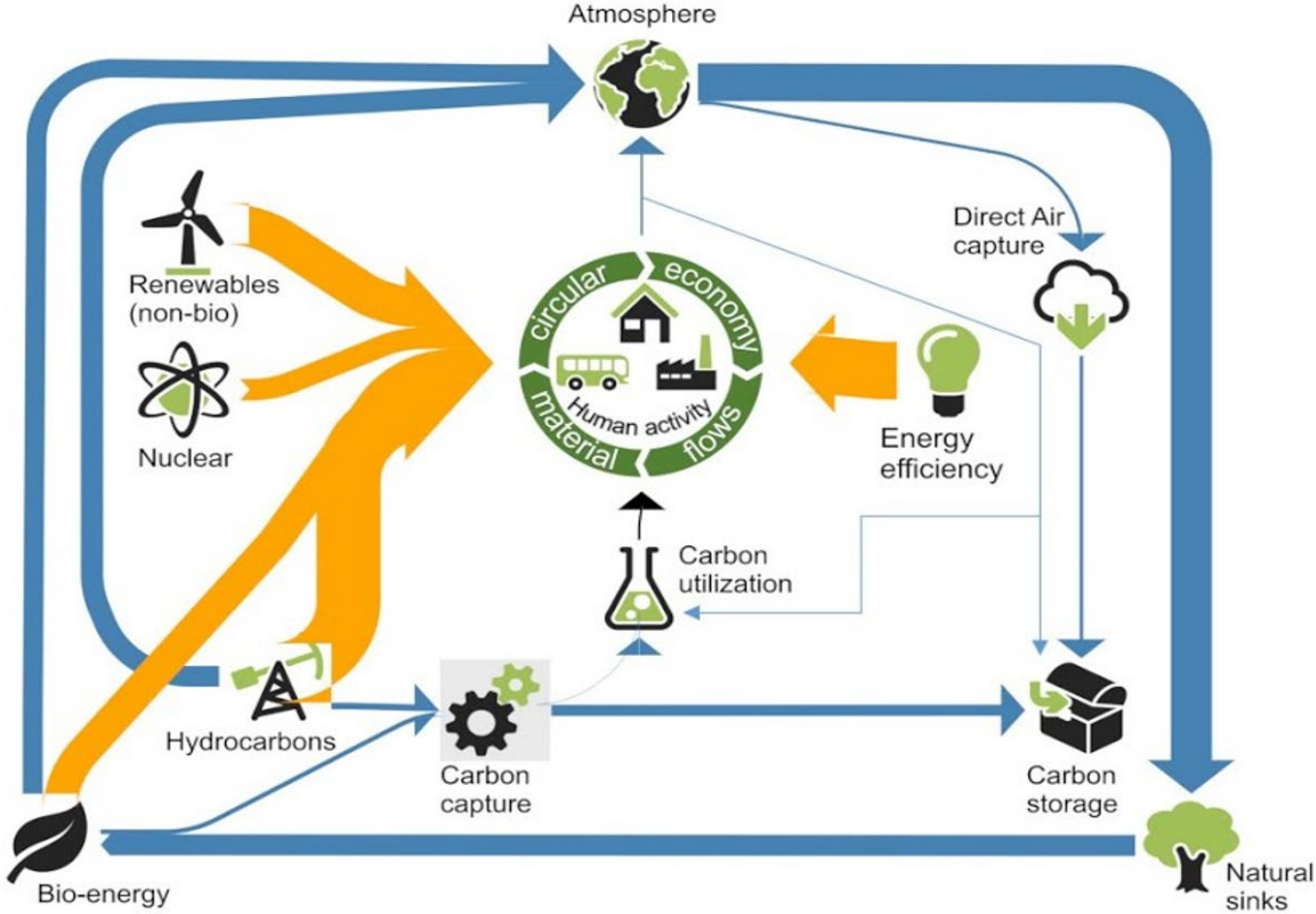
# Circular carbon economy concept

## ENERGY



- Reduce
- Reuse
- Recycle
- Remove

- Energy
- CO2
- Products



Source: IAAE and KAPSARC 2021





**UNECE**



## Sustainable Energy Division

**UNECE**

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