

CHEMISTRY THAT MATTERS™



ROLE OF CIRCULAR ECONOMY AND ESG IN ENABLING SUSTAINABILITY

FICCI - SUMMIT ON "GLOBAL CHEMICALS & PETROCHEMICALS MANUFACTURING HUBS IN INDIA"
25TH NOVEMBER – 26TH NOVEMBER 2021 ; NEW DELHI

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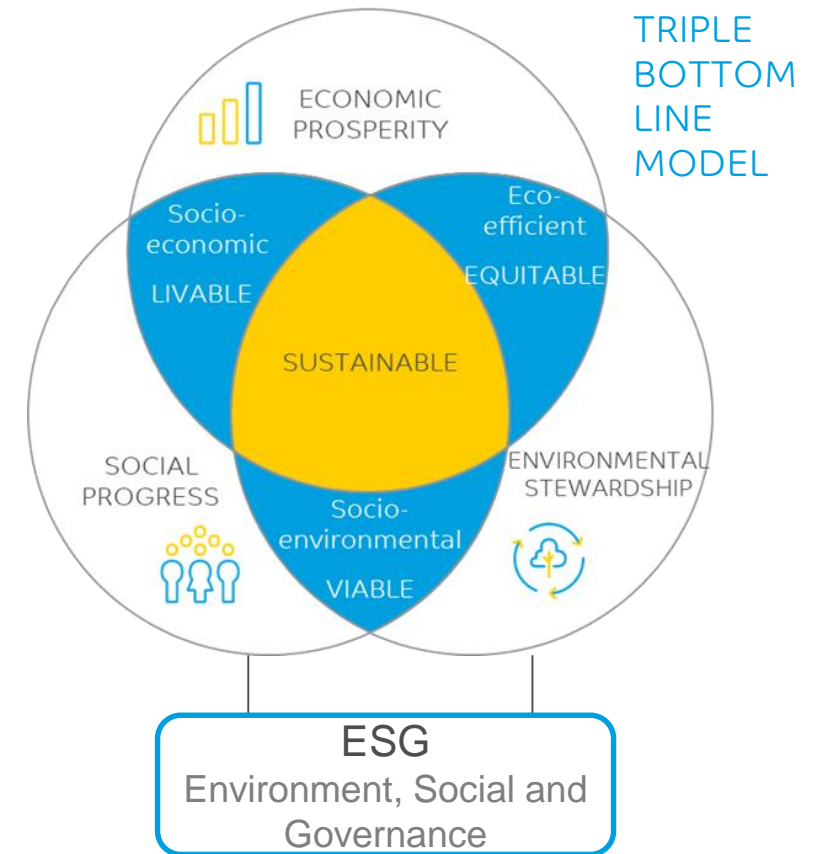
ESG

ESG

Broad set of **Environmental, Social and Corporate Governance** considerations that may impact a company's ability to execute its business strategy and create value over the long term.

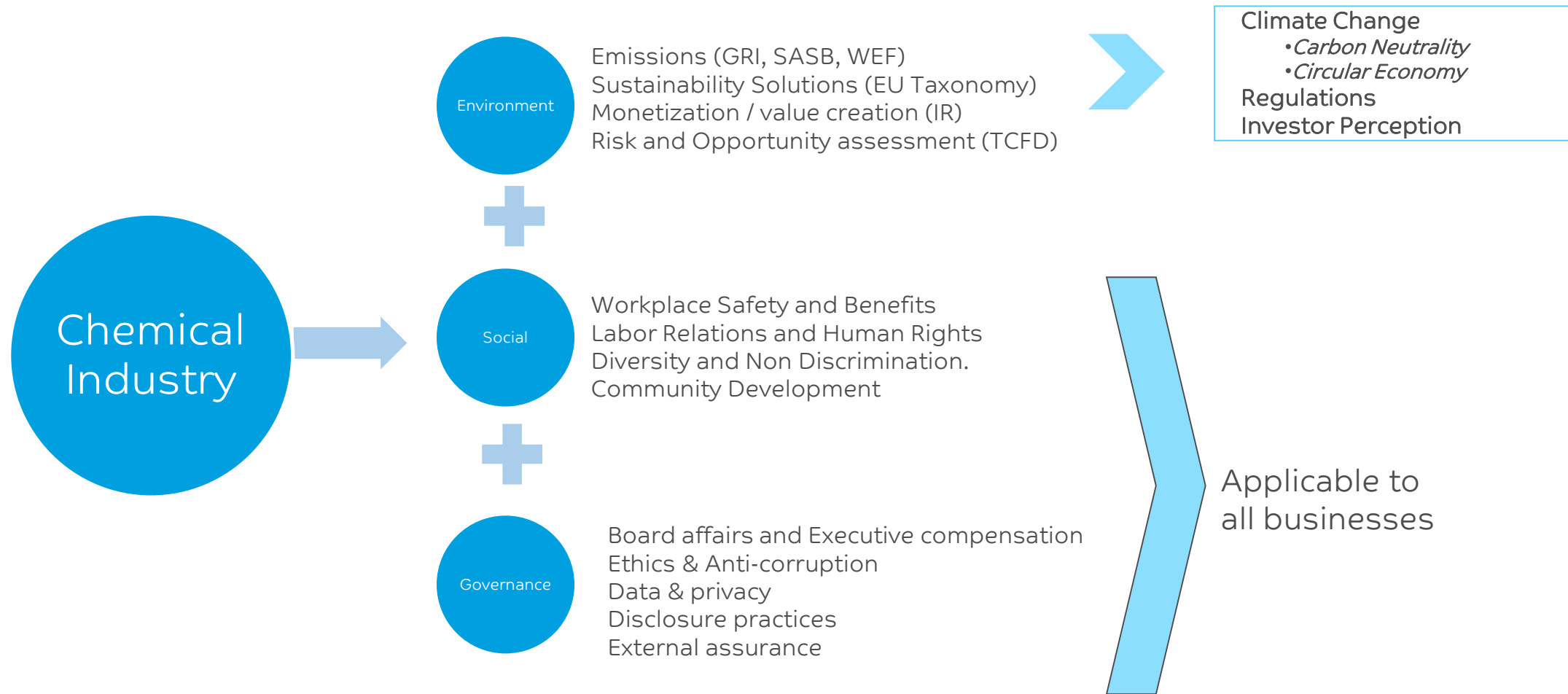
WHY IS IT IMPORTANT NOW?

- Rise of stakeholder capitalism
- Transformation of corporate strategy and global finance.
- Health and wellbeing of the planet.
- Climate-related market, financial, and economic damage



Investors consider the **Environmental, Social and Corporate Governance performance** to measure the **sustainability and ethical impact of an investment** in a company

ESG ENABLING CHEMICAL INDUSTRY









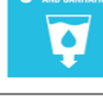



Chemical Industry has a major contribution towards enabling SDG 2030 and Carbon Neutrality

ESG >> SDG >> CHEMICAL INDUSTRY

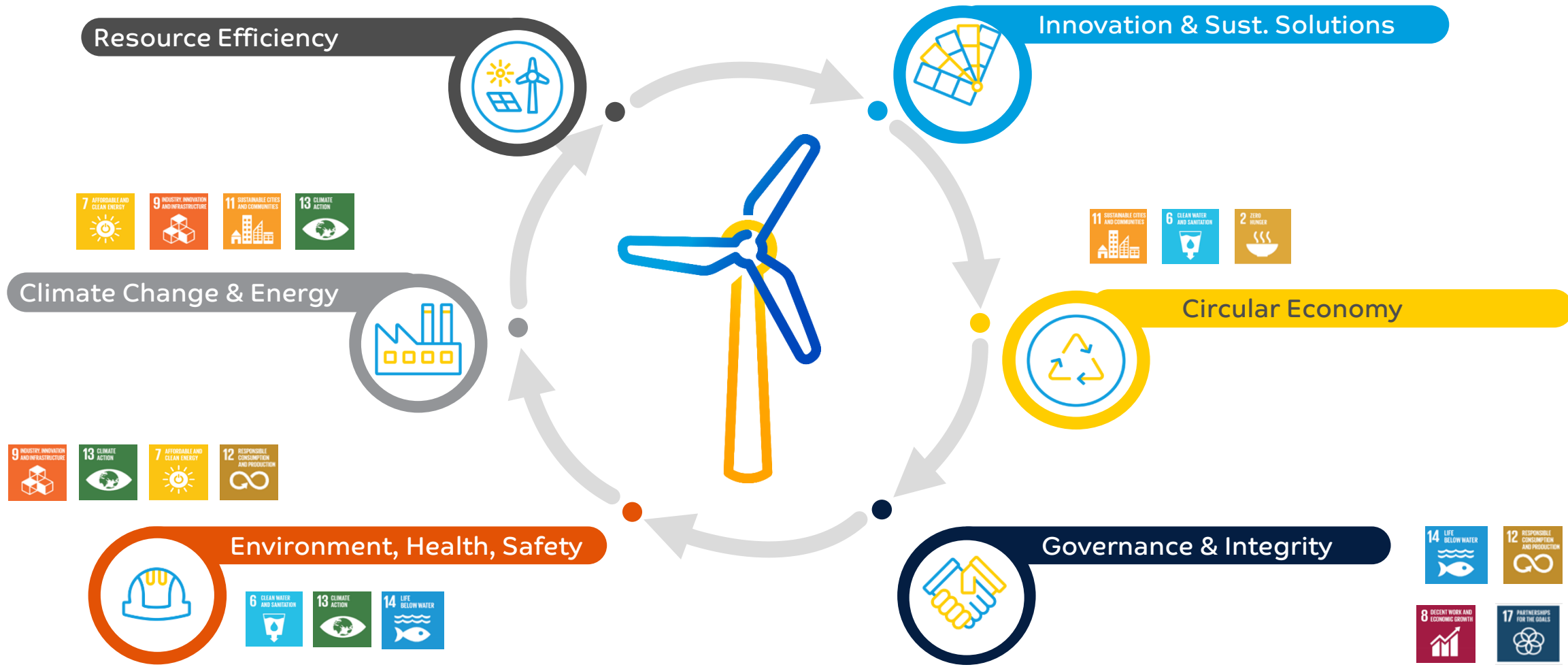
ESG to SDG

ENVIRONMENTAL	SOCIAL	GOVERNANCE
 	 	 
 	 	 
 	 	 
 	 	 
	 	
		

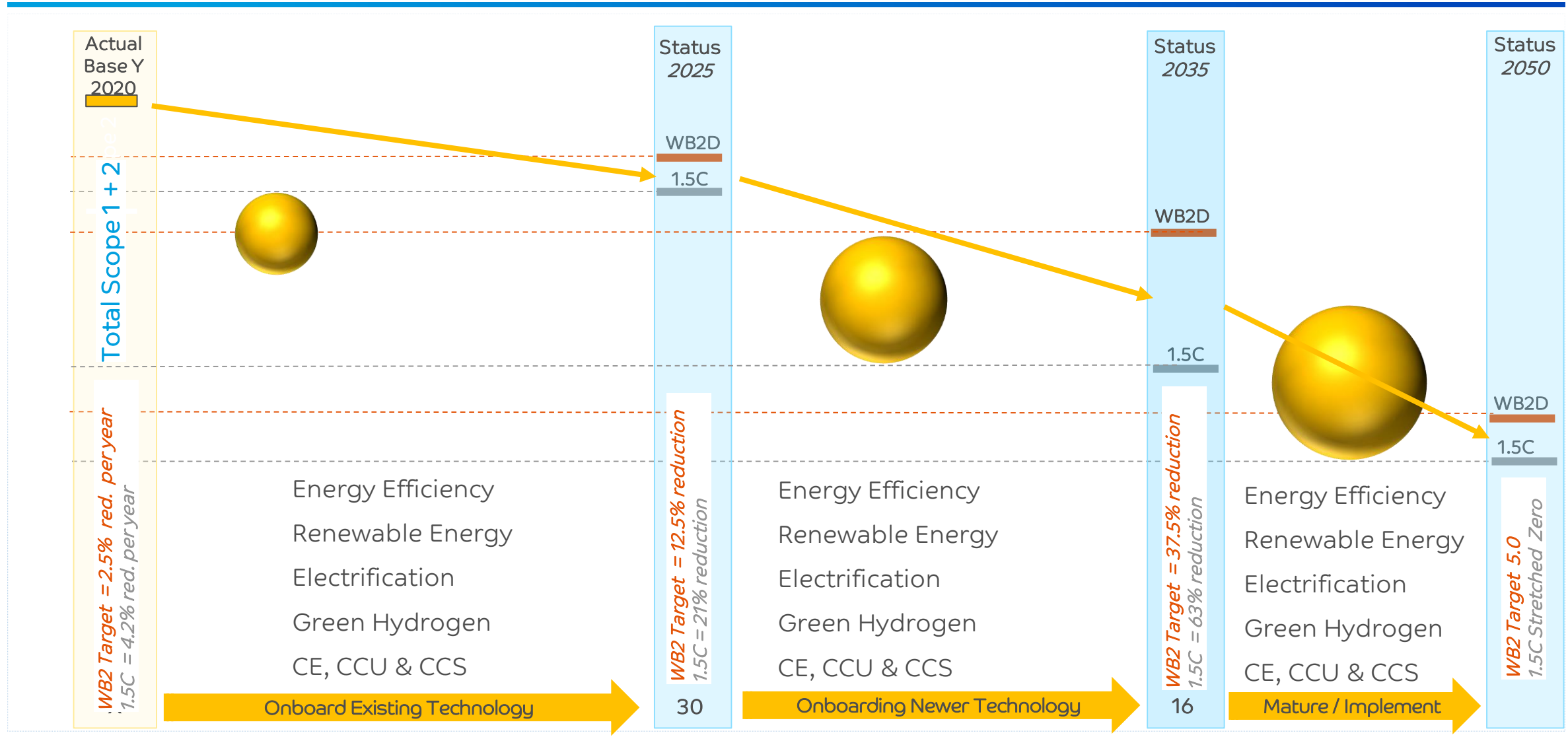
SDG to Chemical Industry

	Zero Hunger: Agrochemicals (pesticides, fungicides, insecticides) fertilizers, soil nutrients		Sector in leading innovation; US\$45 billion pa towards Annual global research
	Good Health: Nutrients, Pharma Intermediates etc.		Circular economy, sustainable material, recyclable, lower energy/CO2 footprints
	Water treatment chemicals, recycling.		Lowest footprint among all alternate material
	Catalysts (pollution control), fuel additives, fuel treatment, silica, power transmission/ Grid		Continued lowering of CO2 emissions through recycling
	Growing above global GDP; Above 1.5x of India GDP		Zero discharge enabler; treatment of effluent

ESG >> SDG >> CHEMICAL INDUSTRY >> SABIC



CARBON NEUTRALITY: FUTURE POTENTIAL LEVEL OF EMISSION REDUCTION:



CIRCULAR ECONOMY

SABIC'S TRUCIRCLE™ PROGRAM – COMPLEMENTARY SOLUTIONS

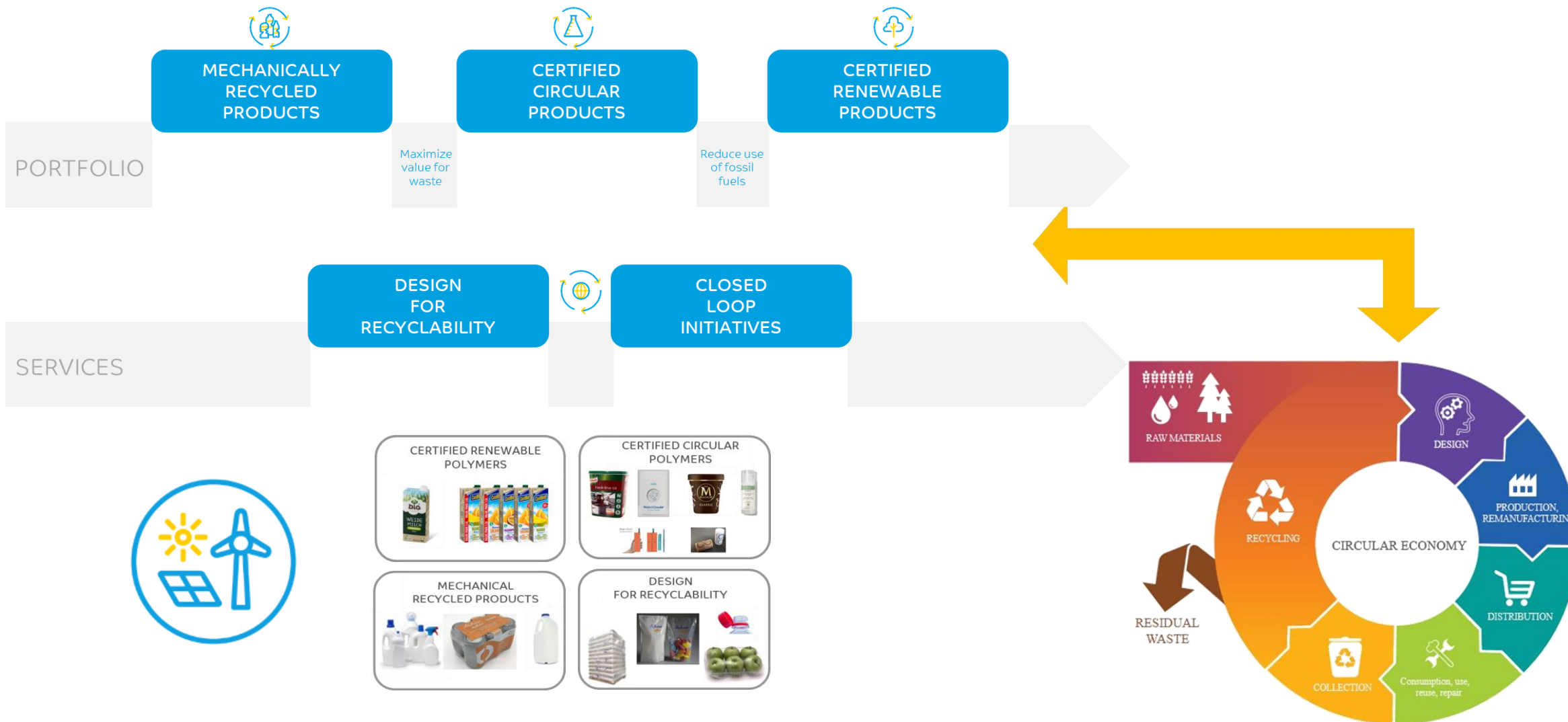


Image: European Parliament

EX1: ADVANCED CHEMICAL RECYCLING UNIT

WORLD'S FIRST COMMERCIAL UNIT FOR THE ADVANCED RECYCLING OF USED PLASTIC

- SABIC and Plastic Energy have **started construction** of world's first commercial unit to significantly upscale production of **SABIC's certified circular polymers** derived from used plastic
- Considerable milestone on the journey towards **closing the loop** and creating a **circular economy for plastics**
- This pioneering project in Geleen, The Netherlands is expected to become **operational in the second half of 2022**.



EX2 : SABIC COLLABORATION OF CLOSED LOOP

Trial involving an entire supply chain demonstrates that **CIRCULARITY FOR PLASTICS** is achievable through **VALUE CHAIN COLLABORATION**.



8 September 2020 10:47

First produce in food-grade recycled flexible packaging hits Tesco shelves

by Leanne Taylor

RSS Print



A pioneering recycling project for soft and flexible plastics has resulted in the first food items on sale in a new packaging using these materials in Tesco this week.



EX3: WORLD'S LARGEST CO₂ PURIFICATION AND LIQUEFACTION PLANT

Built at SABIC affiliate, United

Supplying CO₂ for converting into valuable products

- Urea
- Methanol
- Food industries

500,000 MT

annually of CO₂ can be purified



EX4: WORLD'S FIRST CHEMICAL SITE - 100% RENEWABLE POWER

SABIC's polycarbonate facility in Cartagena will become the world's first large-scale chemical site to operate on 100% renewable power, with a €70m investment to build a 100MW solar plant.

263,000 PV panels will be installed on land owned by SABIC and it will become the largest industrial renewable power plant in Europe once fully operational in 2024.

This project is part of a broader RE strategy by 2025 and 2030.



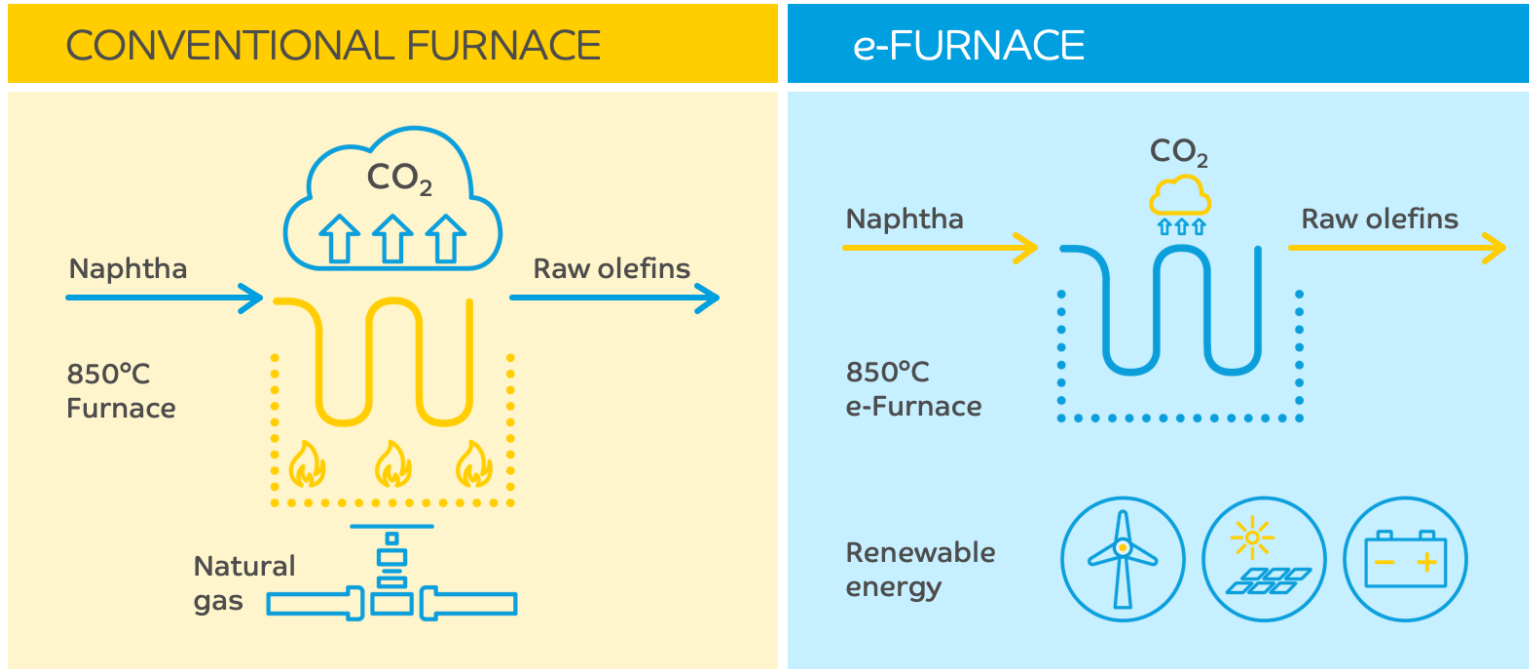
100% RENEWABLE POWER

100MW SOLAR PLANT

263,000 PV PANELS TO BE INSTALLED

EXAMPLE 5 : PROCESS ELECTRIFICATION

SABIC has signed a joint agreement with BASF and Linde to develop and demonstrate solutions for electrically heated steam cracker furnaces.



Co2 emissions Reduction

↓ 90%



THANK YOU

