

WARNING: uncertainties ahead

The New Lens Scenarios" and "A Better Life with a Healthy Planet" are part of an ongoing process – scenario-building – used in Shell for more than 40 years to challenge executives' perspectives on the future business environment. We base them on plausible assumptions and quantification, and they are designed to stretch management thinking and even to consider events that may only be remotely possible. Scenarios, therefore, are not intended to be predictions of likely future events or outcomes, and investors should not rely on them when making an investment decision with regard to Royal Dutch Shell plc securities.

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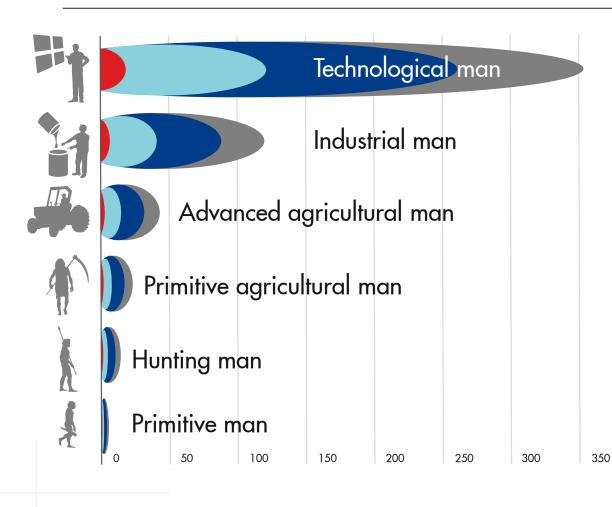
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A view on evolution of primary energy consumption by individuals

Primary Energy Use - GJ per Capita per annum



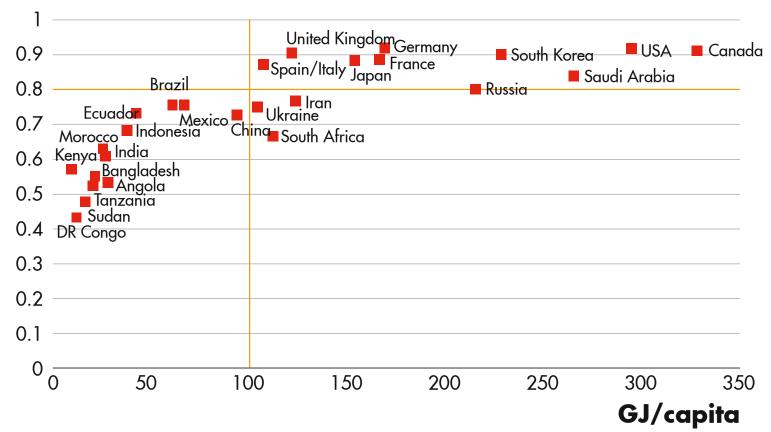
- Food
- Home and commerce
- Industry and agriculture
- Transportation





Energy is an enabler for a decent quality of life

Per capita primary energy demand in 2014 vs UN human development index





Source: Shell analysis – UN Human Development Index Copyright of Shell International BV

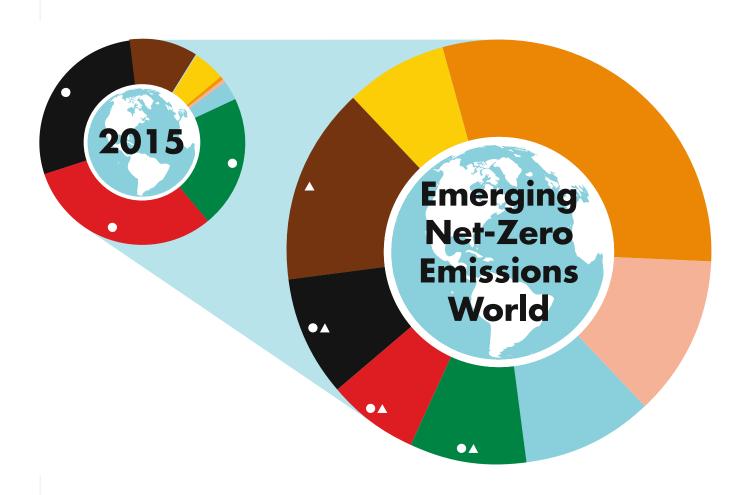
Development Index

Human

Look to the horizon – A Better Life with a Healthy Planet



Plausible energy mix in an emerging net-zero emissions world, towards the end of the century



Assumes 50% electrification of end use.

ENERGY SOURCE:

GAS

OIL

COAL

BIOENERGY

NUCLEAR

SOLAR

WIND

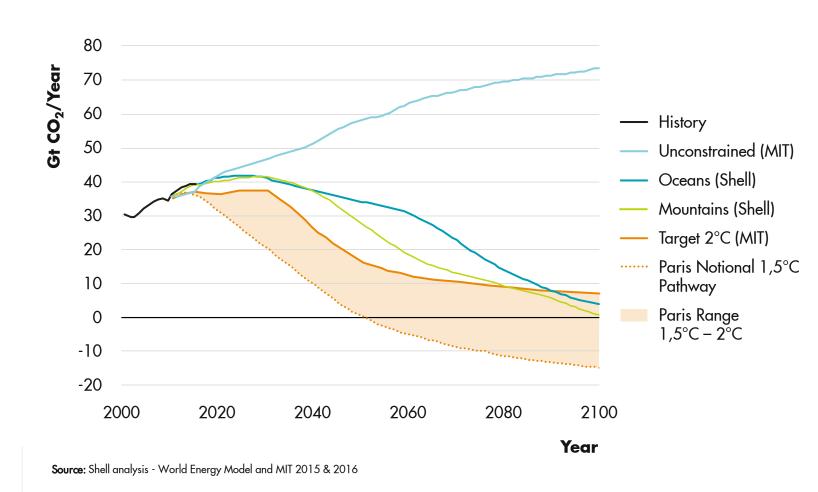
OTHER

▲ With Carbon Capture and Storage

Fossil

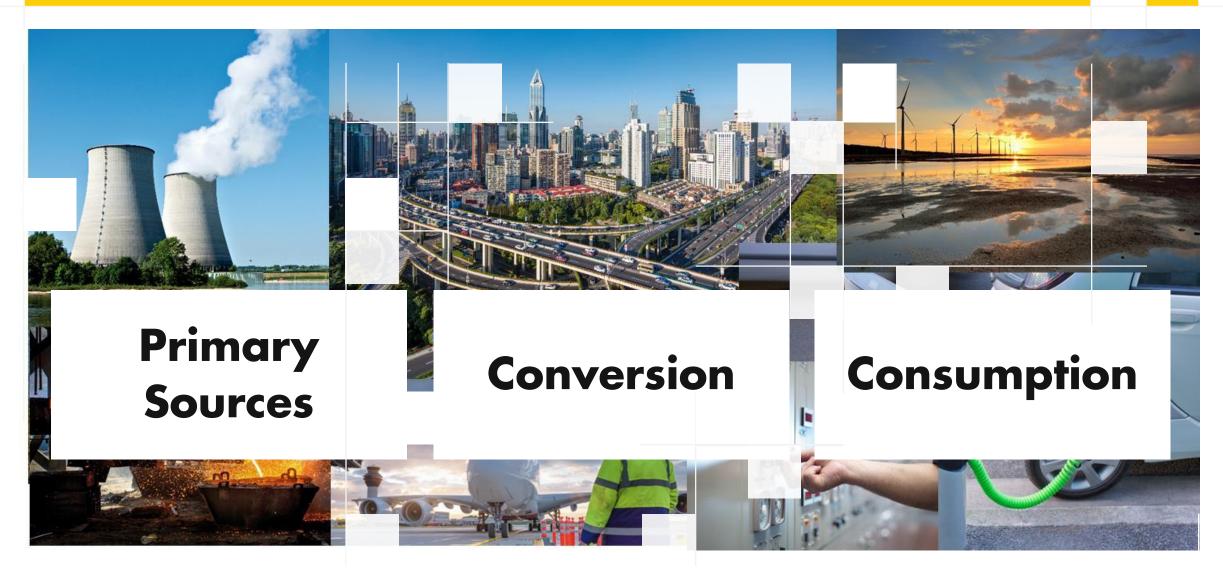
Source: Shell analysis

Pathways for total CO₂ emissions





Energy System



Pace of Change - Large systemic inertia built-in

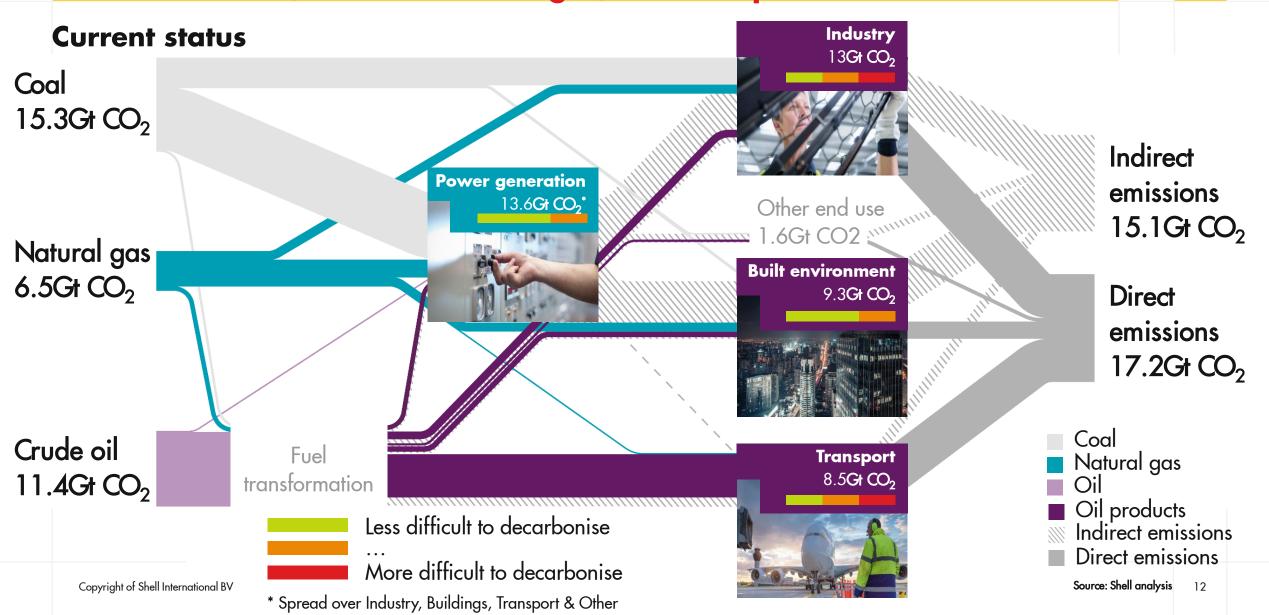
Average infrastructure turnover in years



Source: IHS Energy © 2015 (Illustrations sourced from Shutterstock by IHS)

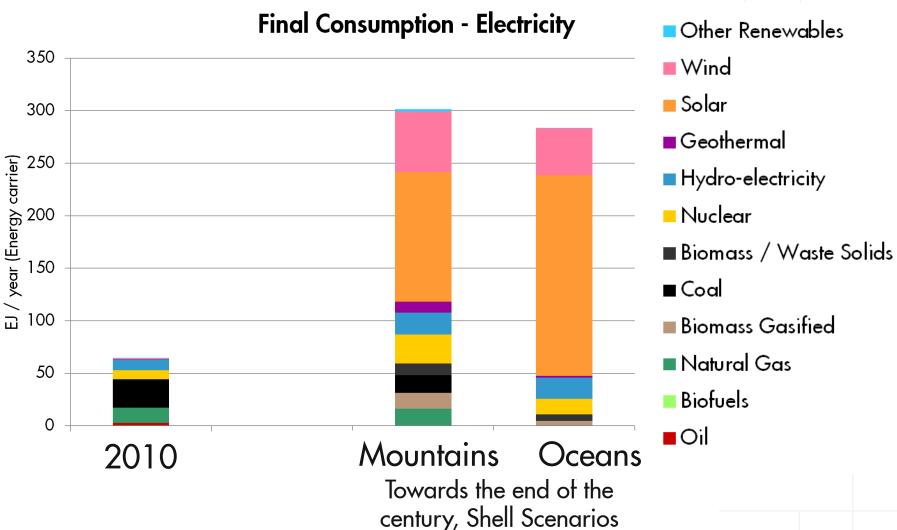
Sources of energy-related CO₂ emissions in key sectors

Different sectors, different challenges, different paces of decarbonisation



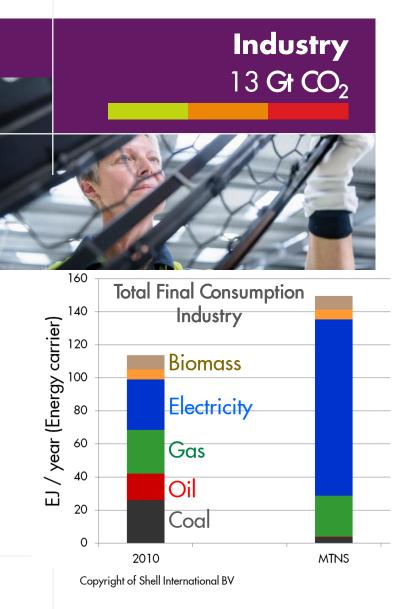
Decarbonisation and Efficiency go hand-in-hand with Electrification

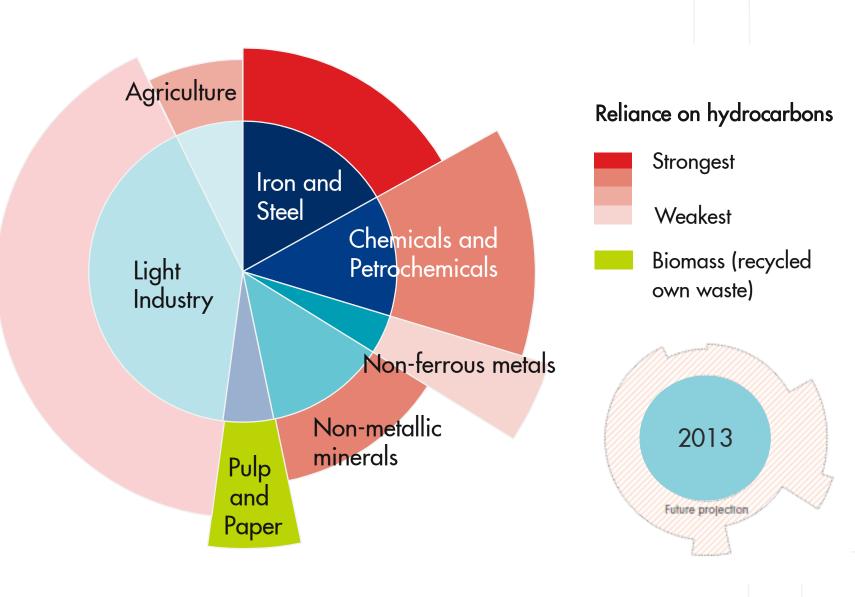




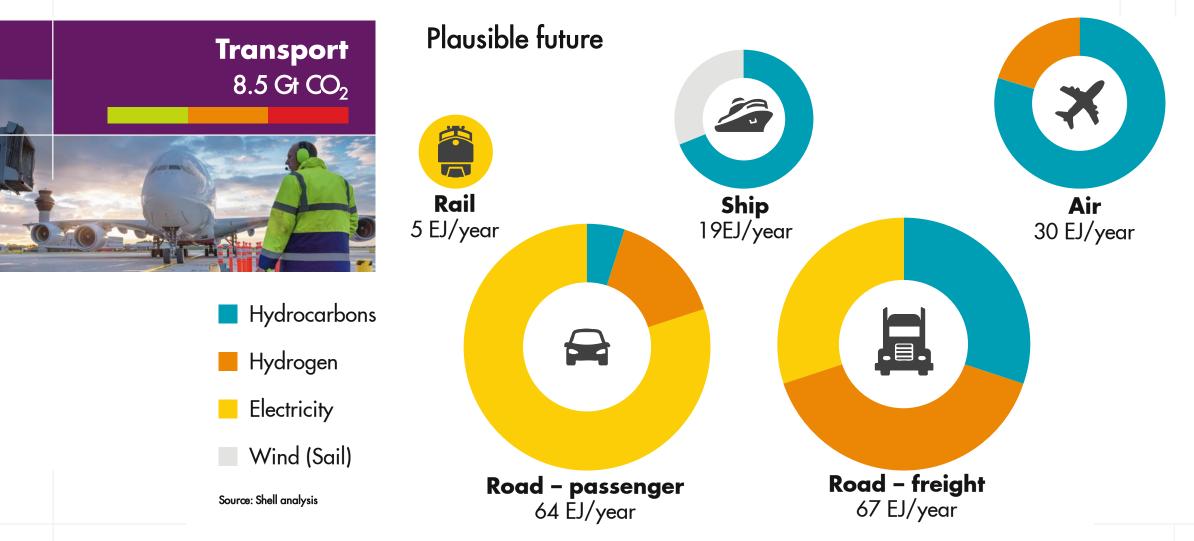
Source: Shell analysis, World Energy Model

Major overhaul required of demand, supply and distribution infrastructures



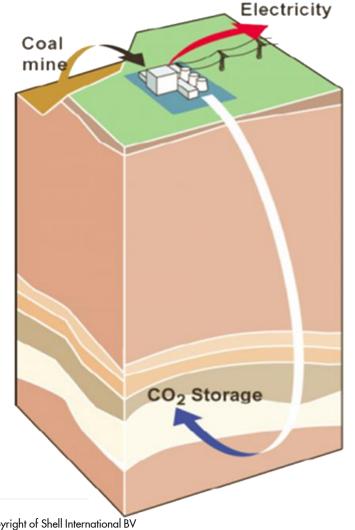


Energy consumption and emissions challenge – Transport



Carbon Capture and Storage (CCS) & other Technologies to address remaining emissions

Carbon Capture and Storage





Bioenergy with carbon capture and storage (BECCS)



Reforestation



Direct CO₂ capture from the air with storage (DACCS)



Enhanced ocean uptake



Soil carbon uptake

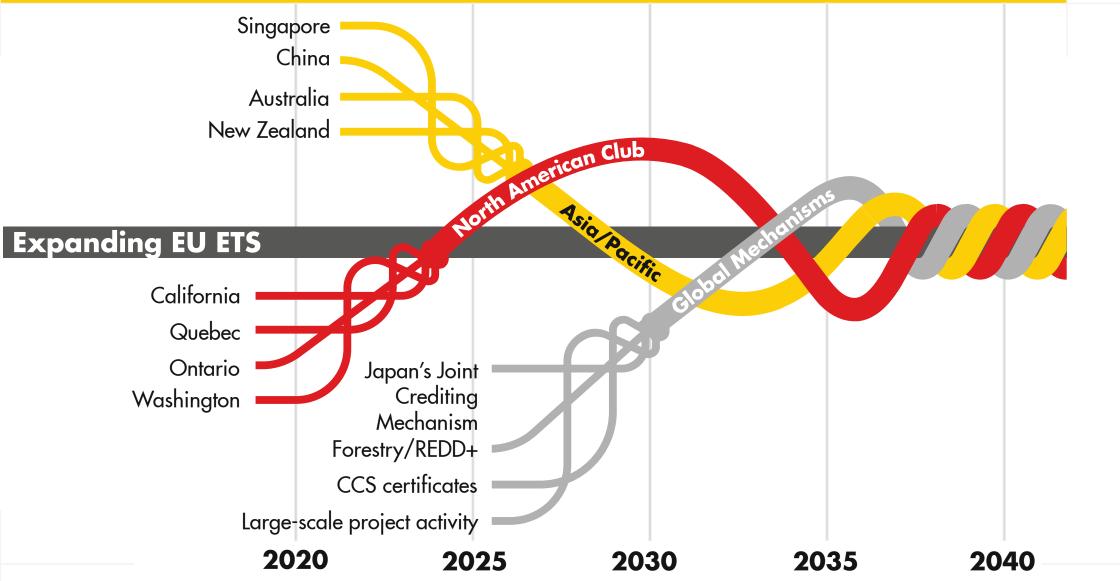


Mineralisation and enhanced weathering



Building with biomass

Development toward a global carbon market is key to the transition



Steps towards a prosperous net-zero emissions world ... all of this is required ... simultaneously

world all of this is required simultaneously										
	Efficient electrified buildings	Low emissions transport			Transformed industrial processes		Sustainable agriculture		;	New behaviors
	Zero emissions power sector		Deep & smc			Compact cities & integrated infrastructures			Carbon dioxide capture & storage	
	Carbon Pricing			Demonstration & Deployment				Targeted funding		
	International mechanisms		oss-border akage		Energy pricing & fiscal		Integrated planning &			Mitigation of negative

policies

measures

policy dvlpm.

impacts

& funding





