

## Warning: Uncertainties Ahead

Shell's scenarios are not intended to be projections or forecasts of the future. Shell's scenarios, including the scenariosaired in this presentation, are not Shell's strategy or business plan. When developing Shell's strategy, our scenarios are on many variables that we consider. Ultimately, whether society meets its goals to decarbonise is not within Shell's controlled like intend to travel this journey in step with society, only governments can create the framework for successive 1.5 scenario starts with data from Shell'sky scenario, but there are important updates. First, the outlook uses the most recent modelling for the impact and recovery (footd) 1.5 scenario narrative. Second, it blends this projection into existing Sky (2018) energy system data by around 2030. Third, the extensive scalp of naturebased solutions is brought into the core scanio, which benefits from extensive new modelling of that scalp. (In 2018, naturebased solutions required to achieve 1.5C above pre-industrial levels by the end of this century were analysed as a sensitivity to seem and included in the IPCC Special Report on Global Warning of 15 (SR15).) Fourth, our new oil and natural gas supply modelling, with an outlook consistent with to the system of the first time. Fifth, Sky 1.5 scenario draws on the latest historical data and estimates to 2020 from various sources, particularly the extensive International Energy Agency energy statistics. As Wilky, this scenario assumes that society achieves the 10c stretch goal of the Paris Agreement. It is rooted in stretching but realistic development dynamics today, but explores a goal-oriented way to achieve that ambition. We worked back in designing how this could occur, considering the realistiof the situation today and taking into account realistic timescales for change. Of course, there is a range of possible paths in detail that society could take to achieve the window for success is quickly closing.

The companies in which Royal Dutch Shell plc directly and indirectly owns are separate legal entities. In this presentation of Royal Dutch Shell and its subsidiaries in general. Likewise, the words "we", "us" and "our" are also used to refer to Royal Dutchl Stream its subsidiaries in general or to those who work for them. These terms are also used where no useful purpose isciserve by identifying the particular entity or entities. "Subsidiaries", "Shell subsidiaries" and "Shell companies" as used inputsiventation to refer to entities over which Royal Dutch Shell plc either directly or indirectly has control. Entities and unincorporated arrangements over which Shell has joint control are generally referred to as "joint ventures" and "joint operations" respects Entities over which Shell has significant influence, but neither control nor joint control, are referred to as "associates The term "Shell interest" is used for convenience to indicate the direct and/or indirect ownership interest held by Shelhientity or unincorporated joint arrangement, after exclusion of all thipatry interest.

This presentationsontains forwardooking statements (within the meaning of the U.S. Private Securities Litigation Reform Act of 1995) concatentifigancial condition, results of operations and businesses of Royal Dutch Shell. All statements than statements of historical fact are, or may be deemed to be, forwardoking statements. Forwardoking statements are identified by their use of terms and unknown risks and uncertainties that could cause actual results, performance or events to differ materially from those expressing managements include, among other things, statements concerning the potential exposure of Royal Dutch Shell to market risks and statements expressing management's expectations, beliefs, esjforatcasts, projections and assumptions. These forwardoking statements are identified by their use of terms and phrases such as "aim", "ambition", "anticipate", "believe", "could", "target", "will" and similar terms and phrases such as "aim", "ambition", "anticipate", "believe", "could", "target", "will" and similar terms and phraseshelle are a number of factors that could affect the future operations of Royal Dutch Shell and could cause those results to differ inabstrates and included in this presentation, included in this presentation, including (without limitation): (abgrafilations in crude oil and natural gas; (b) changes in demand for Shell's products; (c) currency fluctuations; (d)glaikid production results; (e) reserves estimates; (f) loss of market share and industry competition; (g) environmental andabyhysi risks; (h) risks associated with the identification of suitable potential acquisition properties and targets, and successfuliation and completion of such transactions; (j) legislative, fiscal and regulatory developments including regulatory measures addressing climatege; (k) economic and financial market conditions in various countries and regulatory developments including regulatory measures addressing climatege; (k) economic and financial market conditions in various countries and regulatory developme

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## Why scenarios?

Stretch mindsets for better-informed decisions

Help to improve judgment in the face of radical uncertainties

The Present



The Path



The Future



















## The Energy Transformation Scenarios



## Waves Late, but fastdecarbonisation



- W ealth first repair the economy
- Surge in energy use and emissions
- G rowing inequality and more frequent and extreme weather events
- Social pressures; issues intensify
- Backlash forces rapid policy-driven reductions in fossil fuels
- 2.3° C above pre-industrial levels by the end of this century



## Islands Late and slowdecarbonisation



- Security first growing nationalism
- Frictions in collaboration and trade
- Economies stagnate; growth in energy demand stalls
- G lobal climate action slows
- Cleaner technology makes slow progress
- 2.5° C above pre-industrial levels by 2100, and still rising





## Sky 1.5 Accelerated decarbonisation now



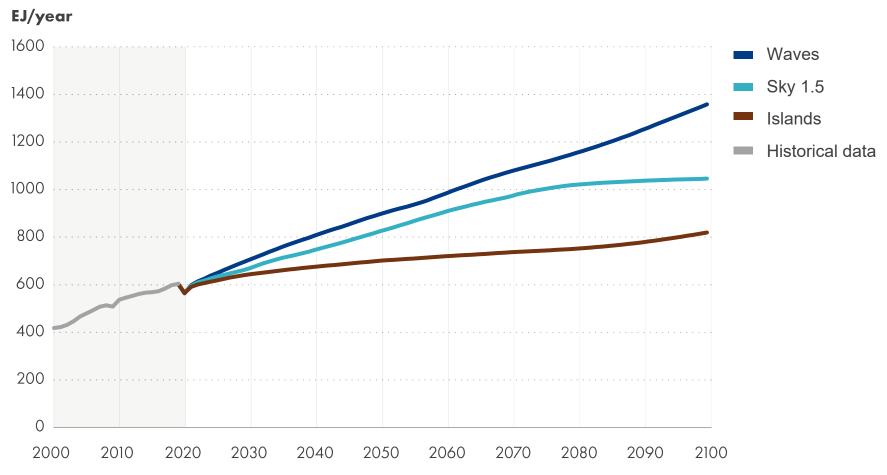


- Health first well-being is the priority
- People proceed cautiously, economies reopen slowly but steadily
- Recognition of value in alignments
- G reen investment reshapes energy system
- Deep structural changes lower emissions
- 1.5° C above pre-industrial levels this century, in line with Paris goal



## Energy demand rises in all scenarios





Source: Shell analysis based on data from the IEA (2020) World Energy Balances ( Link), all rights reserved

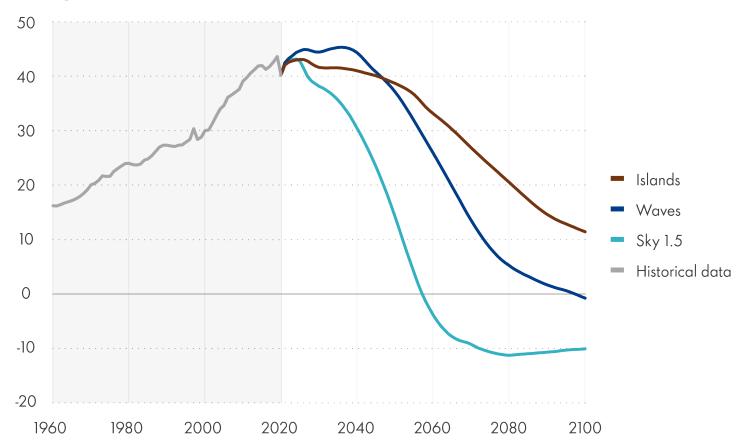
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## Achieving net -zero CO <sub>2</sub> emissions is in the 2050's at the earliest

#### CO<sub>2</sub> emissions

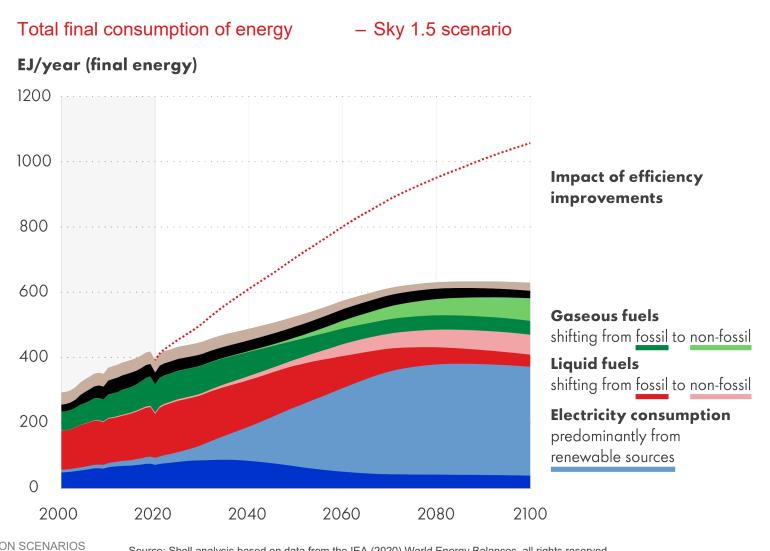
#### Gt CO<sub>2</sub>/year



Source: Shell analysis based on data from Global Carbon Project (2020) and the IEA (2020) World Energy Balances ( Link), all rights reserved



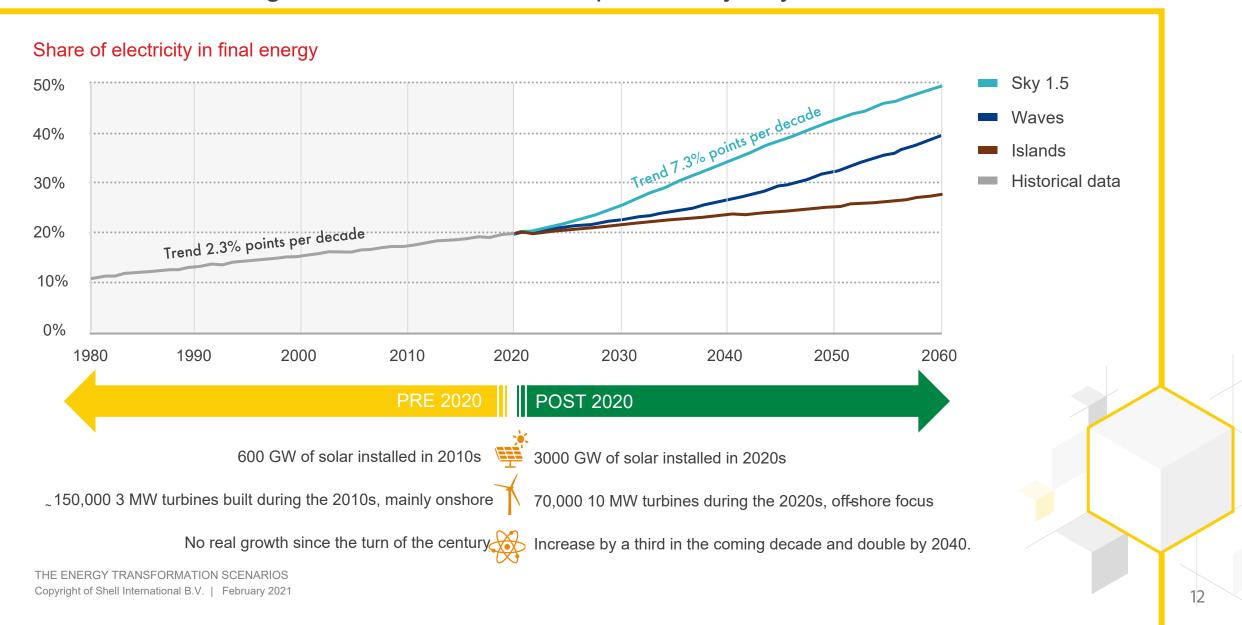
## Efficiency gains and system decarbonization are vital





Source: Shell analysis based on data from the IEA (2020) World Energy Balances, all rights reserved

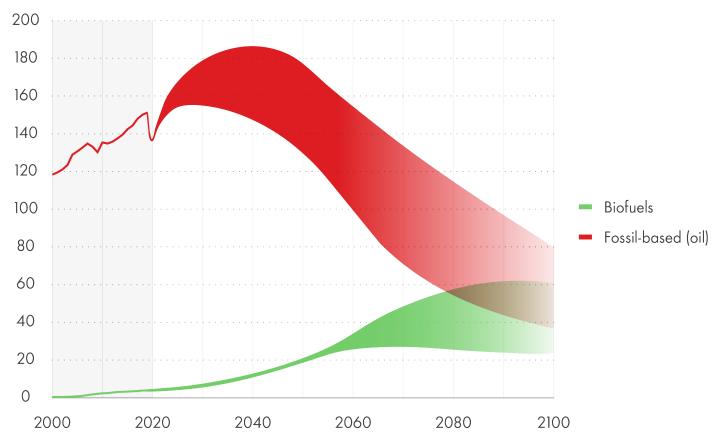
## Electrification will grow in all scenarios, but particularly Sky 1.5



## Oil demand will peak in the next two decades, but demand persists

## Liquid fuels demand

#### EJ/year



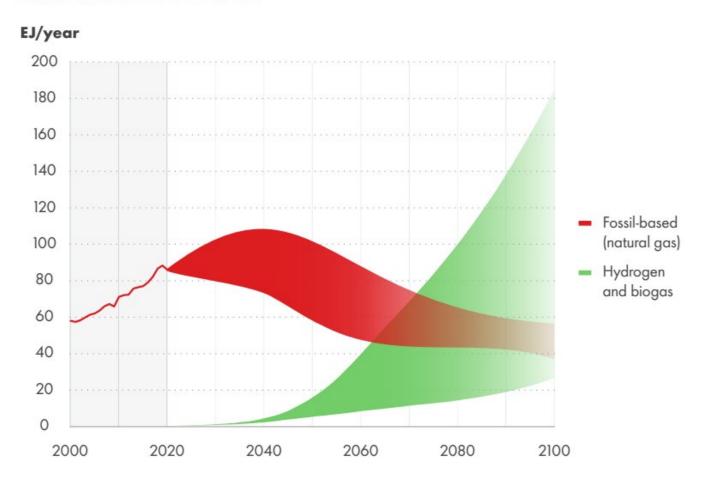
<sup>\*</sup>Oil includes condensate and natural gas liquids

Source: Scenario ranges from Shell analysis based on data from the IEA (2020) World Energy Balances ( Link), all rights reserved

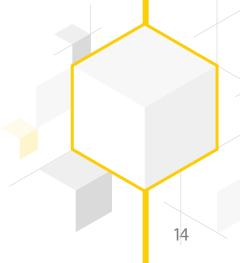


## Gas demand persists longer, but H2 and biogas could grow beyond 2050

#### Gaseous fuels demand

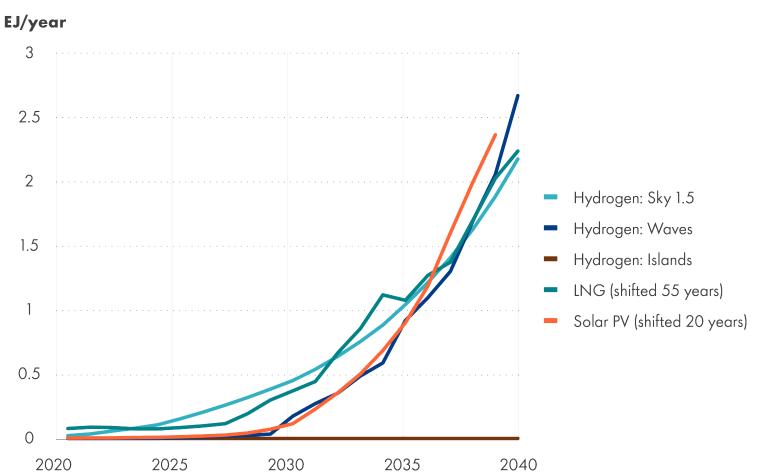


Source: Scenario ranges from Shell analysis based on data from the IEA (2020) World Energy Balances ( Link), all rights reserved

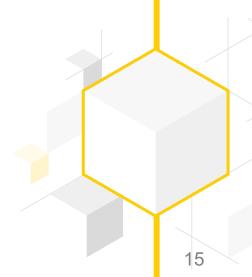


## Comparing outlooks for hydrogen demand with the experience from two successful emerging energy technologies: LNG and solar PV

## Hydrogen growth vs historical trends

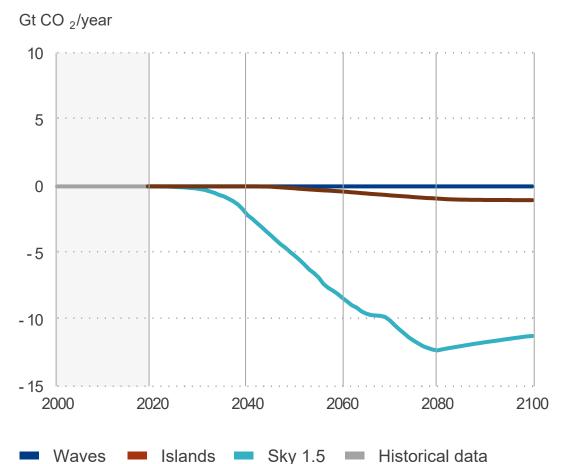


Source: Shell analysis based on data from Rystad Energy and the IEA (2020) World Energy Balances ( Link), all rights reserved

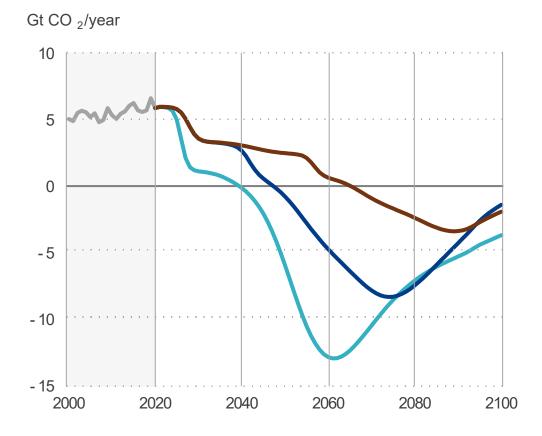


Historical data





#### CO<sub>2</sub> removal using nature



Source: Shell analysis, Global Carbon Project (2020)

Waves



#### THE SHELL INVESTMENT CASE

#### RESPECTING NATURE

Protecting the environment, reducing waste and making a positive contribution to biodiversity



#### GENERATING SHAREHOLDER VALUE

Growing value through a dynamic portfolio and disciplined capital allocation

## POWERING PROGRESS

Our strategy to accelerate the transition to netzero emissions, purposefully and profitably



#### POWERING LIVES

Powering lives through our products and activities, and supporting an inclusive society

# UNDERPINNED BY OUR CORE VALUES AND OUR FOCUS ON SAFETY



## ACHIEVING NET -ZERO EMISSIONS

Working with our customers and sectors to accelerate the energy transition to netzero emissions

