REACHING CLIMATE GOALS WITH NATURAL GAS AND LNG

Through bold steps and technological innovation, natural gas and LNG are working to enable a clean energy future for all. **THIS IS WHAT THE PATH FORWARD LOOKS LIKE, DECADE BY DECADE.**

THE 2020s



PLEDGING TO LIMIT EMISSIONS.

ConocoPhillips targets 35-45% reduction in operated GHG emissions intensity by 2030.1

Equinor's global operation aims to be **carbon neutral by 2030**² and **near zero methane** intensity by 2030.³

ExxonMobil plans to **reduce operated upstream emissions by 30**% as well as flaring and methane emissions by **40-50**% **by 2025.**⁴

bp targets 30-35% reduction in operated GHG emissions on an absolute basis by 2030.⁵

Chevron targets a **26% reduction** in emissions intensity of upstream production **by 2028.**

Shell targets 20% reduction in carbon intensity by 2030.



¢

Ó

PLEDGING TO ELIMINATE ROUTINE FLARING.

NGSA members have pledged to eliminate routine flaring, as defined by the World Bank,⁶ by 2030.^{7,8,9,10,11}

bp aims for zero routine flaring in US onshore operations by 2025.12

ConocoPhillips has an ambition to reach zero routine flaring by 2025.



IMPROVING OUR ABILITY TO RESPOND TO AND REDUCE EMISSIONS WITH DRONES, INFRARED CAMERAS AND REAL-TIME MONITORING.^{13,14,15}

Shell expands drone use to enhance their existing methane leak detection and repair program.¹⁶

ExxonMobil expands the use of aerial LiDAR[™] imaging¹⁷ and SOOFIE¹⁸ fixed continuous **methane detection technologies.**

bp aims to **install methane measurement** at all existing major oil and gas processing sites globally **by 2023.**¹⁹



INVESTING BILLIONS IN RENEWABLE TECHNOLOGIES AND LOW-CARBON SOLUTIONS.

bp invested \$750 million in 2020²⁰ and aims to increase its annual low-carbon investment to around \$5 billion per year by 2030.²¹

Equinor commits to increasing its share of gross capital **expenditures for renewables and low-carbon solutions** to more than **50% by 2030.**²²



INCREASING RESEARCH INTO AND BEGINNING TO UTILIZE CARBON CAPTURE USE AND SEQUESTRATION TECHNOLOGIES.

Equinor's ambition is **5 to 10 million tons of CO₂ storage** per year **by 2030**.

Carbon injection and storage began in 2019 at Chevron's Gorgon Project.23



CARBON NEUTRAL LNG CARGOES HIT THE MARKET.²⁴



ESG-BASED CERTIFICATION PROGRAMS FOR NATURAL GAS BEGIN.

ExxonMobil pursues **certification of natural gas in the Permian Basin** and evaluates potential expansion to other areas.²⁵

THE 2030s



ONGOING INVESTMENTS IN RENEWABLES AND LOW-CARBON SOLUTIONS REAP REWARDS.

Shell expects to provide enough **renewable electricity for 50 million homes and reduce its carbon intensity by 45%**.²⁶

Through Chevron's partnership with the Getting to Zero Coalition, commercially viable **deep-sea zero-emissions vessels** are expected to be in operation.²⁷

bp aims to grow its net renewable generating capacity from **2.5GW in 2019** to **20GW by 2025** and to around **50GW by 2030.**²⁸



ExxonMobil's CCUS Hub in Houston expects to capture and store **100MMT of CO₂ a year** by **2040.**²⁹

Shell is seeking access to an additional **25 million tonnes/year of CCS capacity by 2035**— equal to 25 CCS facilities.³⁰

THE 2040s



EFFICIENCY AND EMISSIONS INTENSITY REDUCTIONS IN OIL AND NATURAL GAS ARE EXPECTED TO SUPPORT A NEARLY 45% DECLINE IN CARBON INTENSITY OF THE GLOBAL ECONOMY.³¹

CREATING HYDROGEN FROM NATURAL GAS HELPS DECARBONIZE ENERGY-INTENSIVE INDUSTRIES.³²

bp expects hydrogen to have more than a 15% share in total global energy consumption by 2050.33

Equinor's ambition is to have 3-5 major industrial H₂ clusters developed worldwide by 2035.



REDUCTIONS IN GHG EMISSIONS AND CARBON INTENSITY HELP THE WORLD ACHIEVE A CLEANER FUTURE.

bp pledges to **cut the carbon intensity** of its products by **50% by 2050**—and its scope 1, 2 and 3 emissions to be at **net-zero by 2050 or sooner.**³⁴

ConocoPhillips sets an ambition to become a **net-zero company for operational** emissions by 2050.³⁵

Equinor continues commitment to become a **net-zero energy company by 2050**–a net carbon intensity **reduction of 100%.**³⁶

Shell aims to reduce its carbon intensity by 100% by 2050.

DESTINATION: 2050 AMBITION OF NET ZERO EMISSIONS.^{37,38,39,40,41,42}

