

26th World Gas Conference

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WOC1-4: Technologies For The Monetisation Of Gas Reserves

FROM GAS TO LIQUIDS: HISTORY AND OPPORTUNITIES

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DEFINITIONS AND CAUTIONARY NOTE

Reserves: Our use of the term “reserves” in this presentation means SEC proved oil and gas reserves.

Resources: Our use of the term “resources” in this presentation includes quantities of oil and gas not yet classified as SEC proved oil and gas reserves. Resources are consistent with the Society of Petroleum Engineers 2P and 2C definitions.

Organic: Our use of the term Organic includes SEC proved oil and gas reserves excluding changes resulting from acquisitions, divestments and year-average pricing impact.

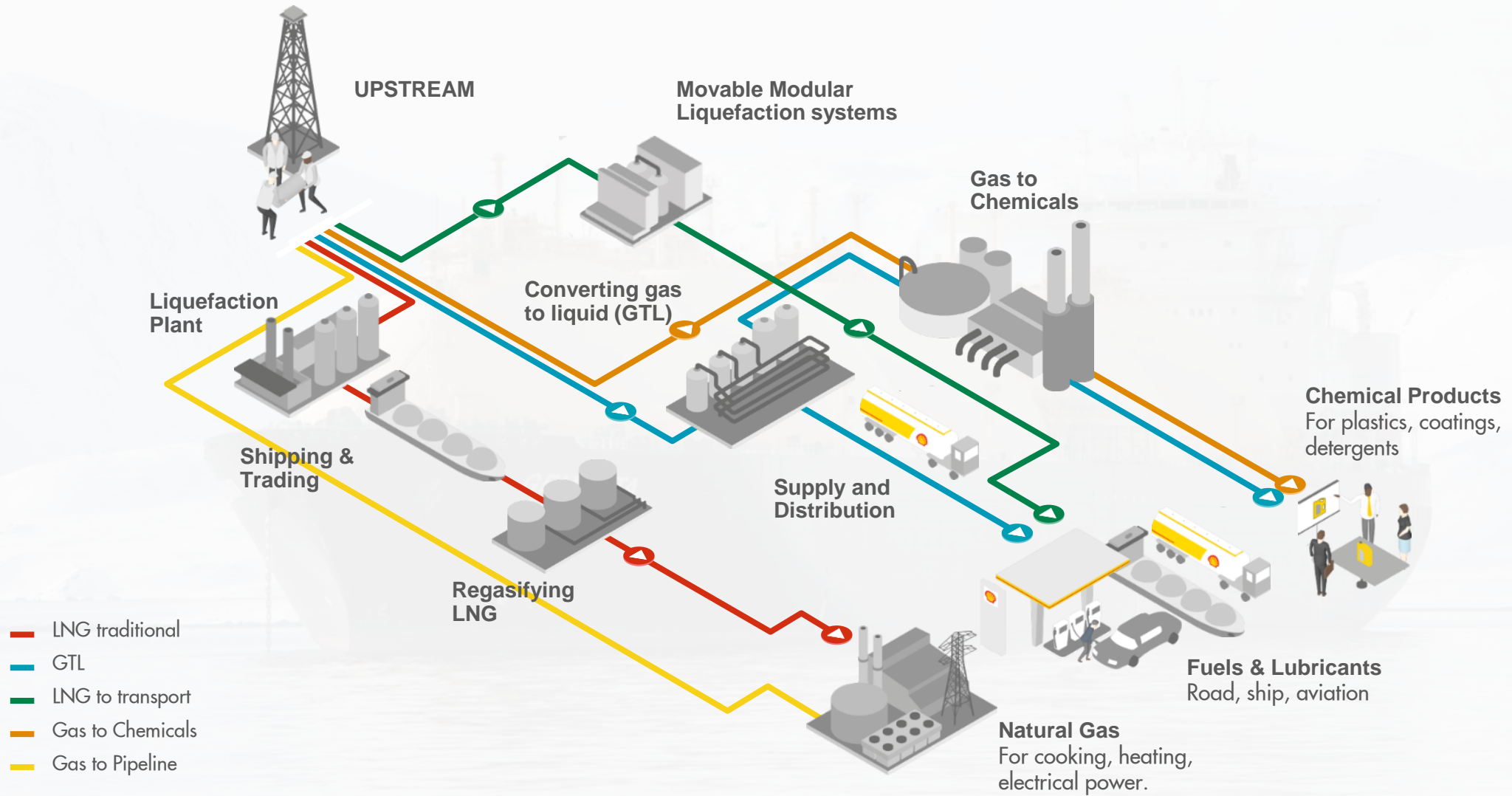
Resources plays: Our use of the term ‘resources plays’ refers to tight, shale and coal bed methane oil and gas acreage.

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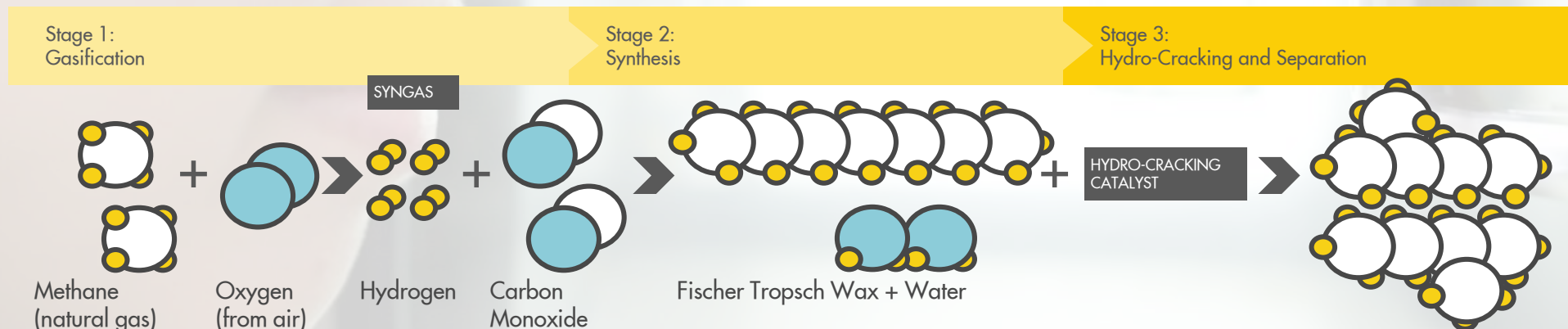
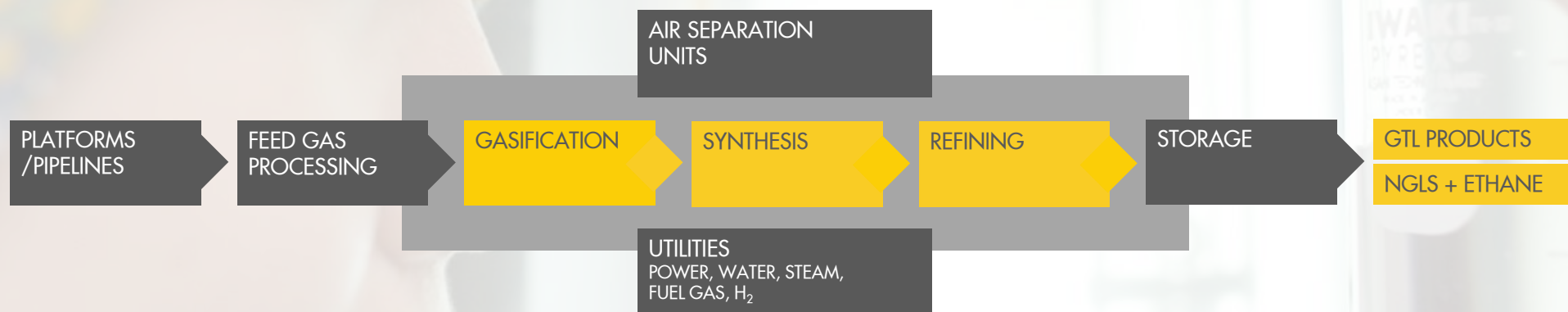
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GAS VALUE CHAIN



GAS-TO-LIQUIDS TECHNOLOGY

CATALYTIC PROCESS TO CONVERT GAS TO OIL PRODUCTS

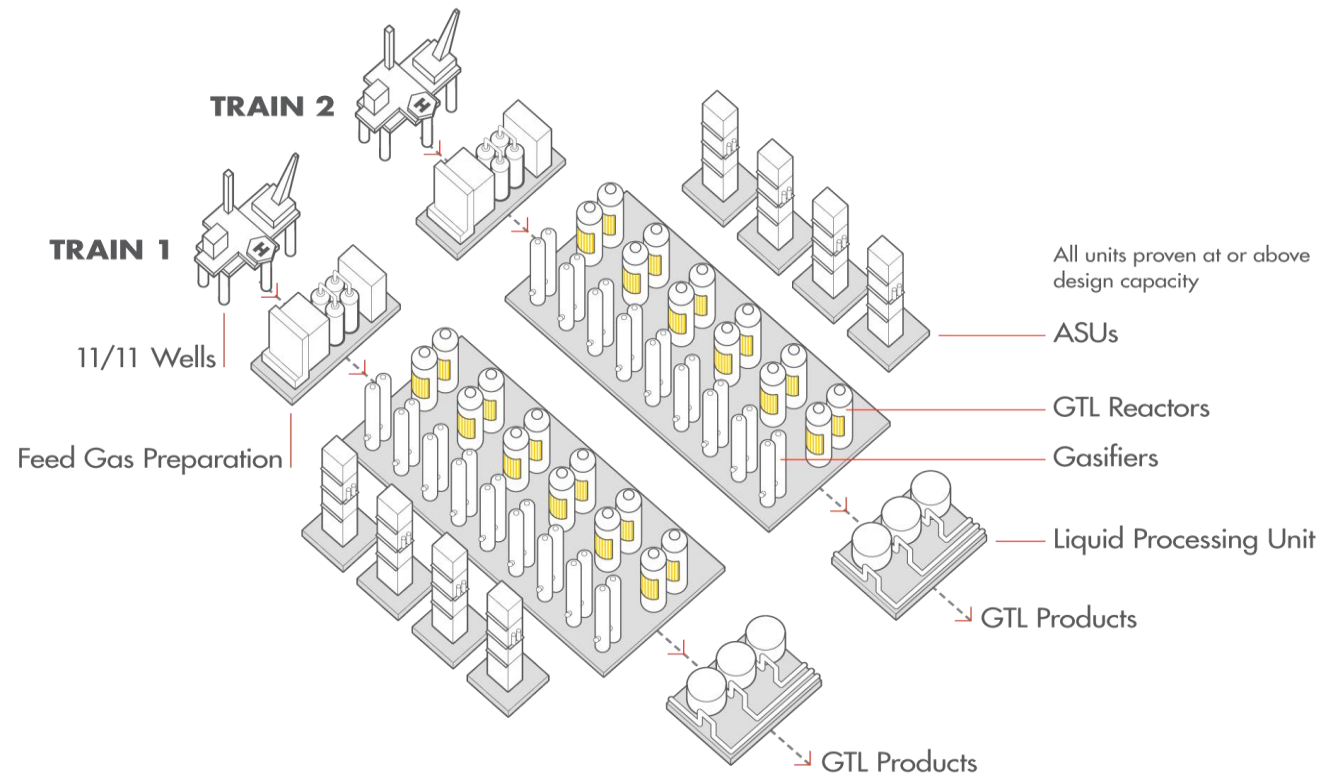


FIRST COMMERCIAL FACILITY IN THE WORLD

- Location: Bintulu, Malaysia
- Plant capacity 14,700 b/d of liquid products & waxes
- More than 400 staff
- Customers in more than 50 countries
- More than 2200 shipments
- More than 90% Malaysian staff

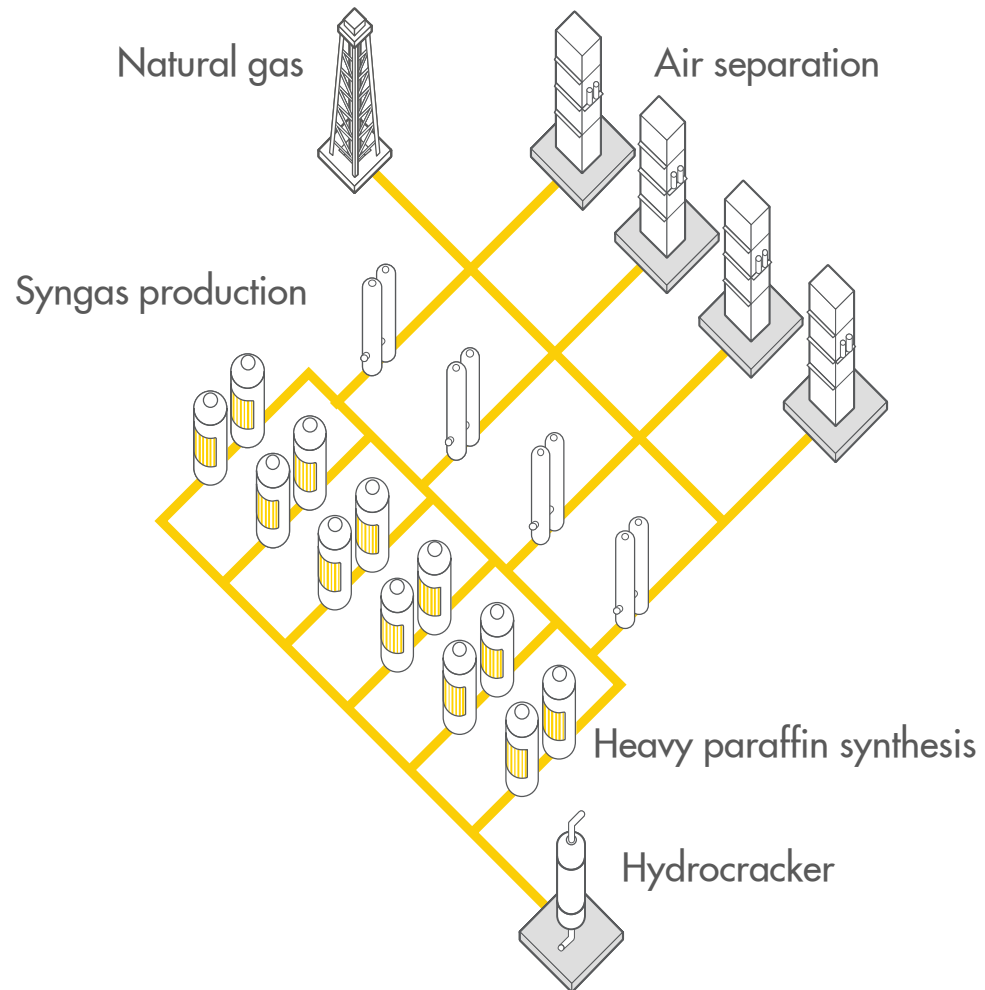
PEARL GTL

INTEGRATED GAS-TO-LIQUIDS FACILITY



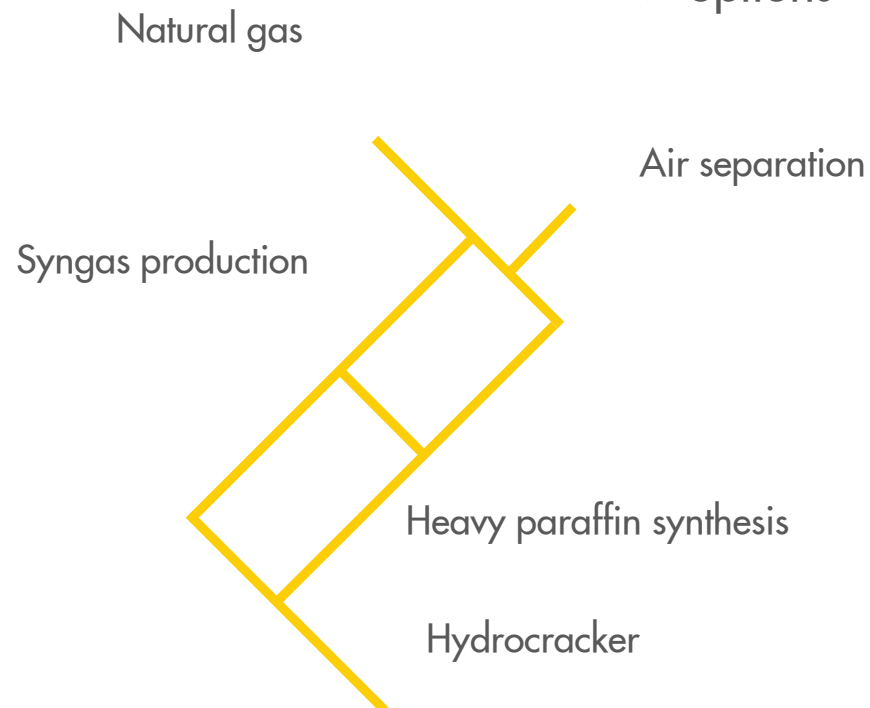
- 1.6 Bcf/d of Wet Gas
- 140 kbbbl/d GTL products
- 120 kbbbl/d NGLs/Ethane
- Full integration from offshore to refined products
- In production since 2011

A SMALLER TRAIN FROM THE LARGEST BLOCKS



Now developed a mid scale option

- Competitive, scaled for local market
- Expandable
- => options



SHELL GTL PRODUCTS



- Reduced environmental impact
- High-purity, clear & water white
- Low odor
- Synthetic, stable & consistent composition

SECTORS WHERE SHELL GTL FUEL IS SUCCESSFULLY APPLIED

Shell
GTL Fuel



CANAL BOATS



WASTE COLLECTION



BUSES



RAIL

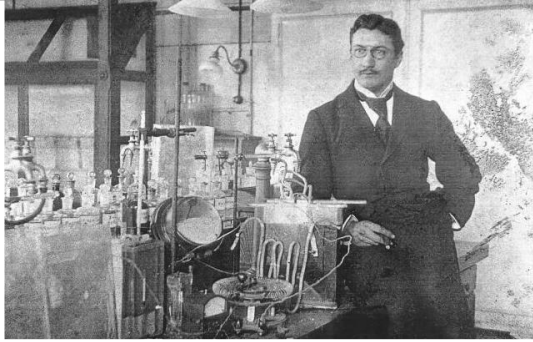


LAST MILE DELIVERY

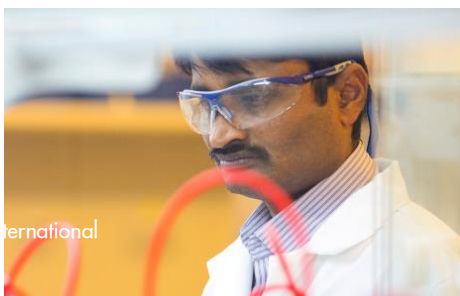
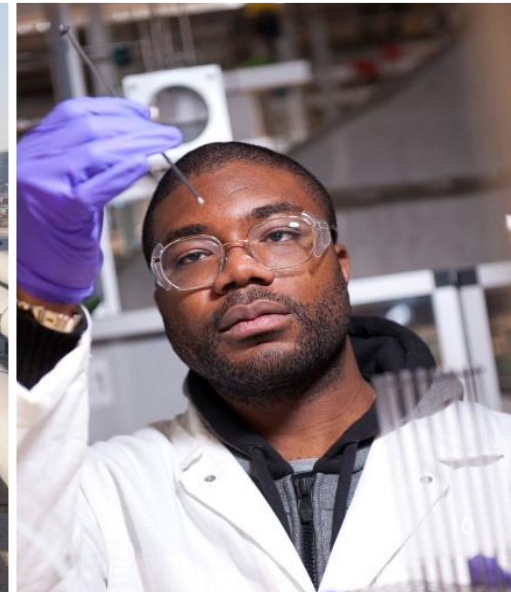


STATIONARY POWER

IN SUMMARY



- GTL provides a good opportunity for gas rich countries to use local resources to reduce dependence on imports
- GTL is a key component of Shell's suite of integrated gas solutions
- GTL plants can be designed at a variety of scales to suit the local gas resource and market





THE NEW ENERGY FUTURE BY 2050

RISING ENERGY DEMAND, SUPPLY PRESSURE, CLIMATE CHANGE



Population

9 billion people,
75% living in cities
(2 billion more than today)



Vehicles

2 billion vehicles
(currently 800 million)



Rising standards

Many millions of people will rise
out of energy poverty; with higher
living standards energy use rises



Demand

Energy demand could double from its level
in 2000...but CO₂ emissions must be half
today's to avoid serious climate change



Efficiency

Twice as efficient, using
half the energy to produce
each dollar of wealth



Renewables

3 times more energy
from renewable sources