



Growth through Innovation and Integration



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GLOBAL ENERGY OUTLOOK

ENERGY DEMAND

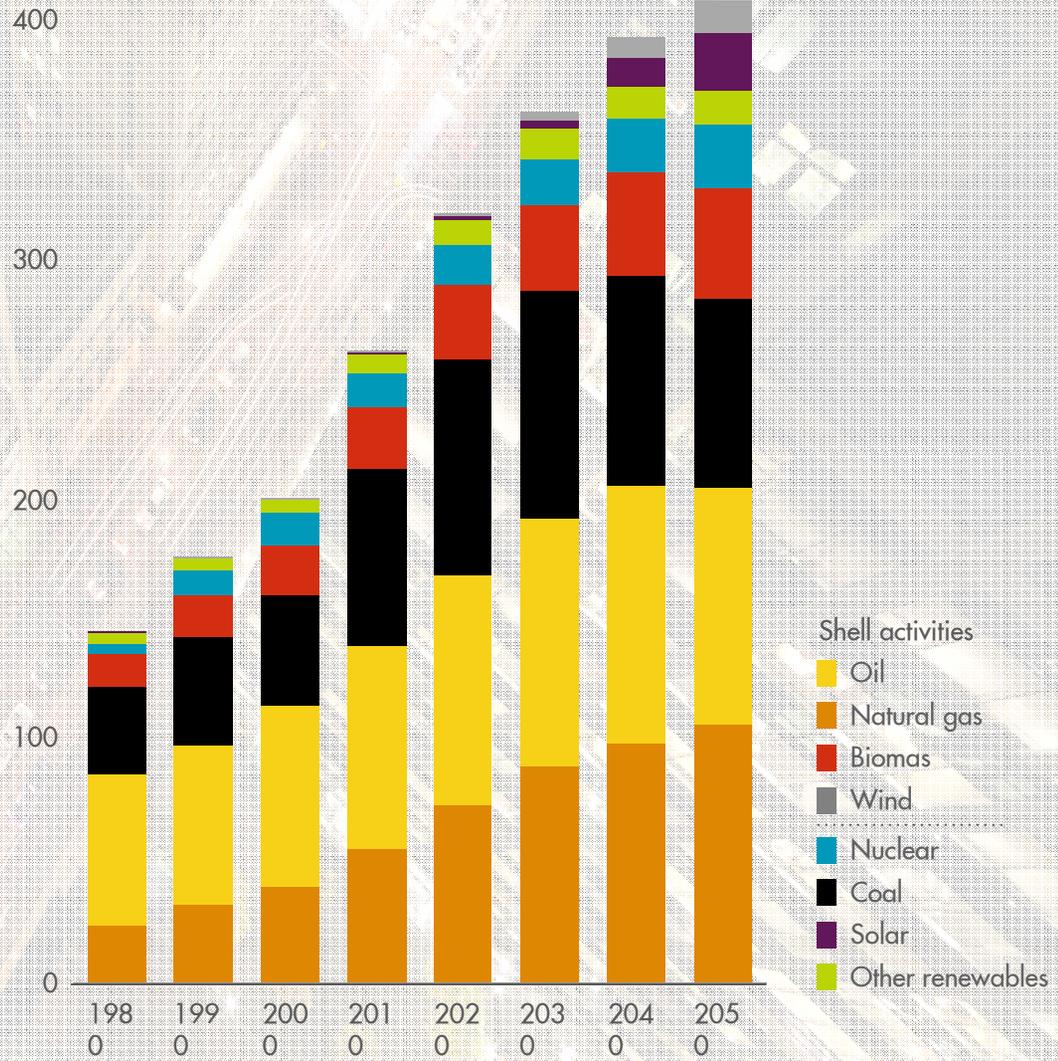
+60%

2010 – 2050

HYDROCARBONS
DOMINATE OUTLOOK

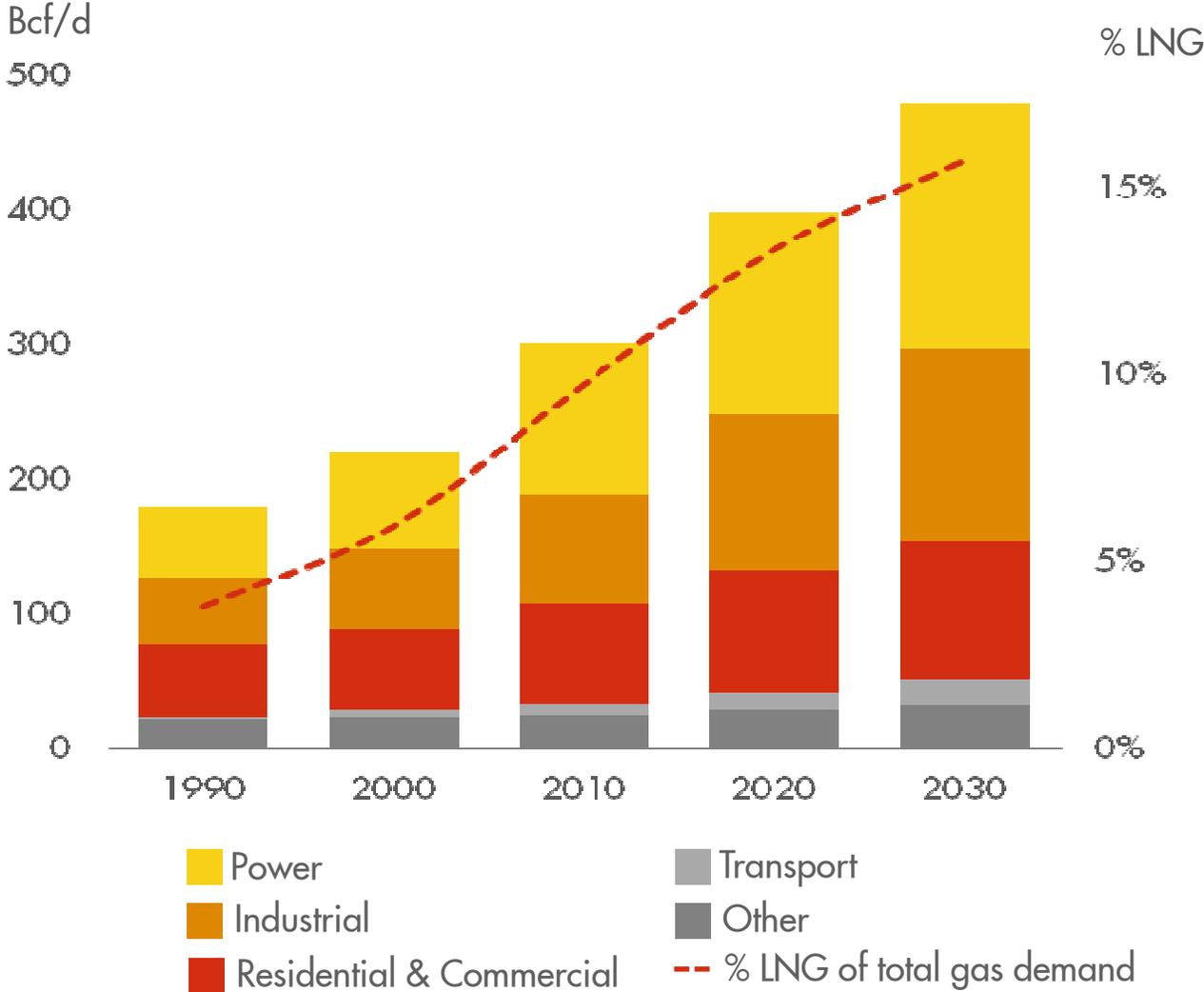
GAS DEMAND

DOUBLING 2010 –
2050



GAS AND LNG DEMAND

DEMAND BY SECTOR



SHELL'S GLOBAL LNG PORTFOLIO

ACCESS TO KEY STRATEGIC MARKETS



ALTAMIRA



BAJA



SPAIN



DUBAI



HAZIRA

SHIPPING



ARKAT

EXPORT



SAKHALIN-II



COVE POINT

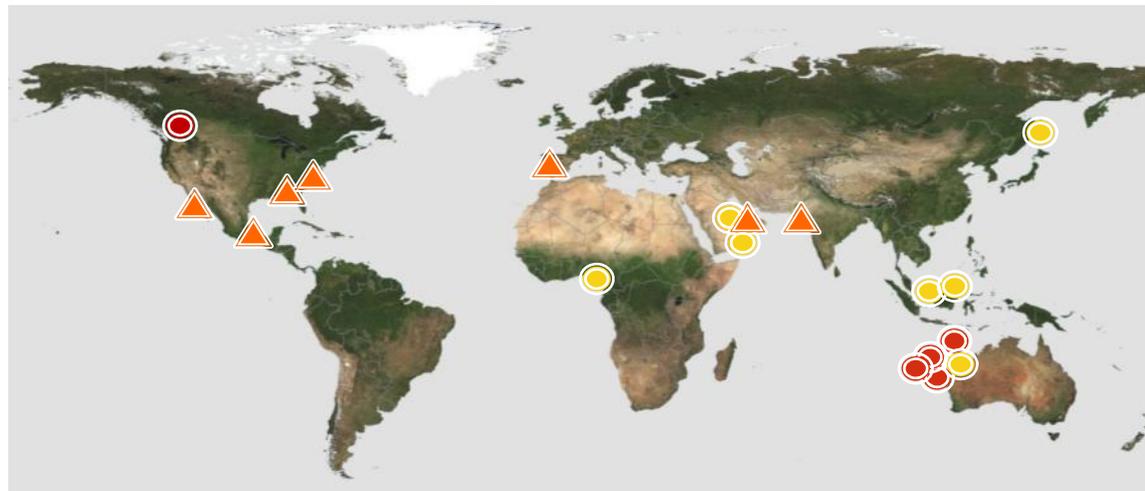


ELBA ISLAND

LNG FOR TRANSPORT



CANADA GREEN CORRIDOR



● LNG - OPERATION
 ● LNG - CONSTRUCTION
 ▲ REGAS POSITION - OPERATION



BRUNEI LNG



MALAYSIA LNG



NORTH WEST SHELF



PLUTO



QATARGAS 4



NIGERIA LNG



OMAN LNG



QALHAT*



WHEATSTONE LNG



PRELUDE

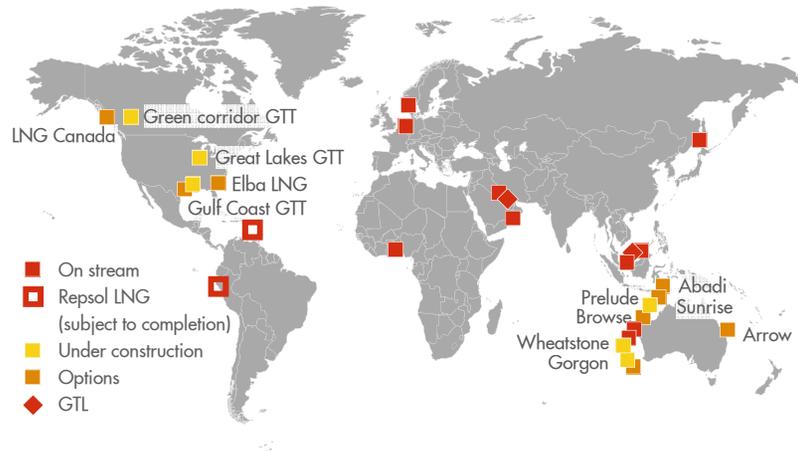


GORGON LNG

* Indirect interest

INDUSTRY LEADING INTEGRATED PORTFOLIO

GLOBAL INTEGRATED GAS PORTFOLIO



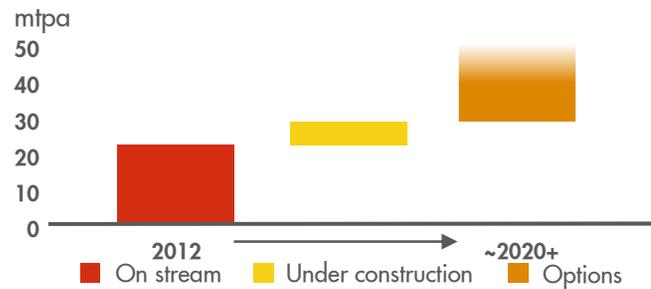
22 MTPA¹ ON STREAM

7 MTPA UNDER CONSTRUCTION + 33%

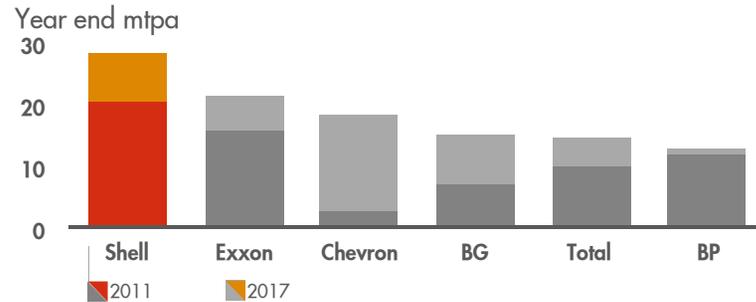
20+ MTPA OPTIONS

SHELL 7% GLOBAL MARKET SHARE

SHELL GLOBAL LNG CAPACITY GROWTH¹

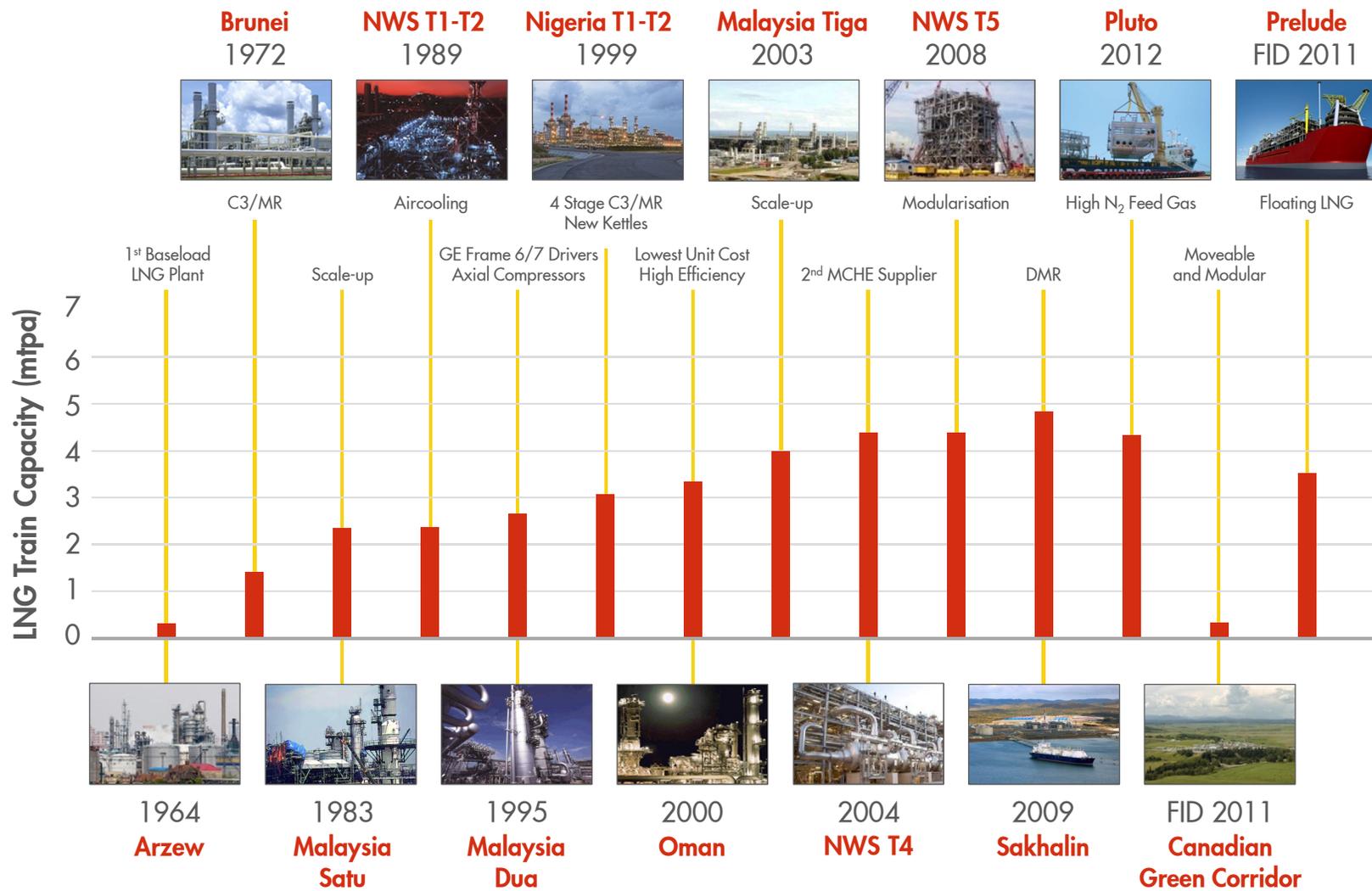


SHELL LNG LEADERSHIP¹

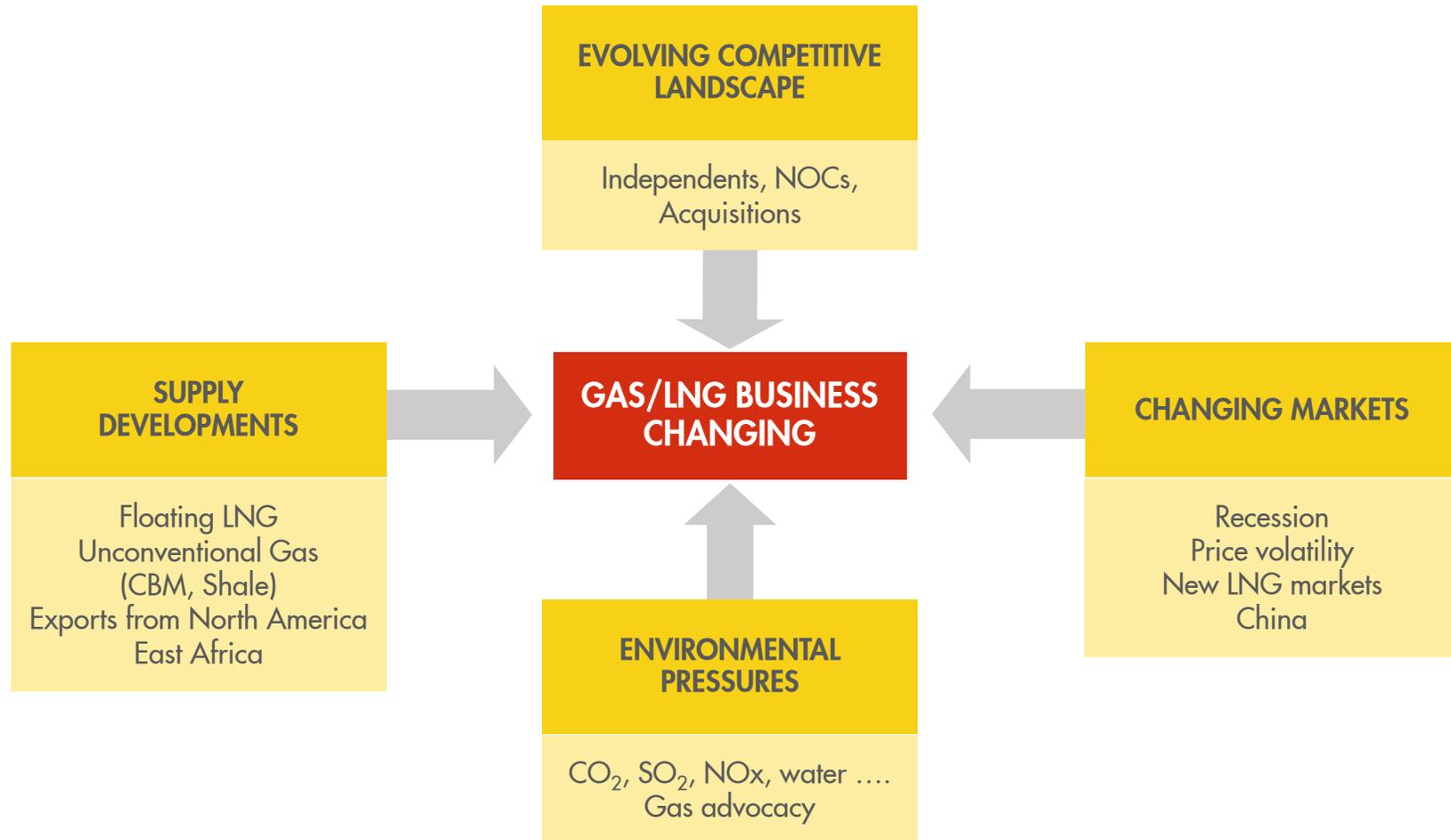


¹ excludes 4.2 mtpa equity capacity from Repsol LNG acquisition which is subject to completion

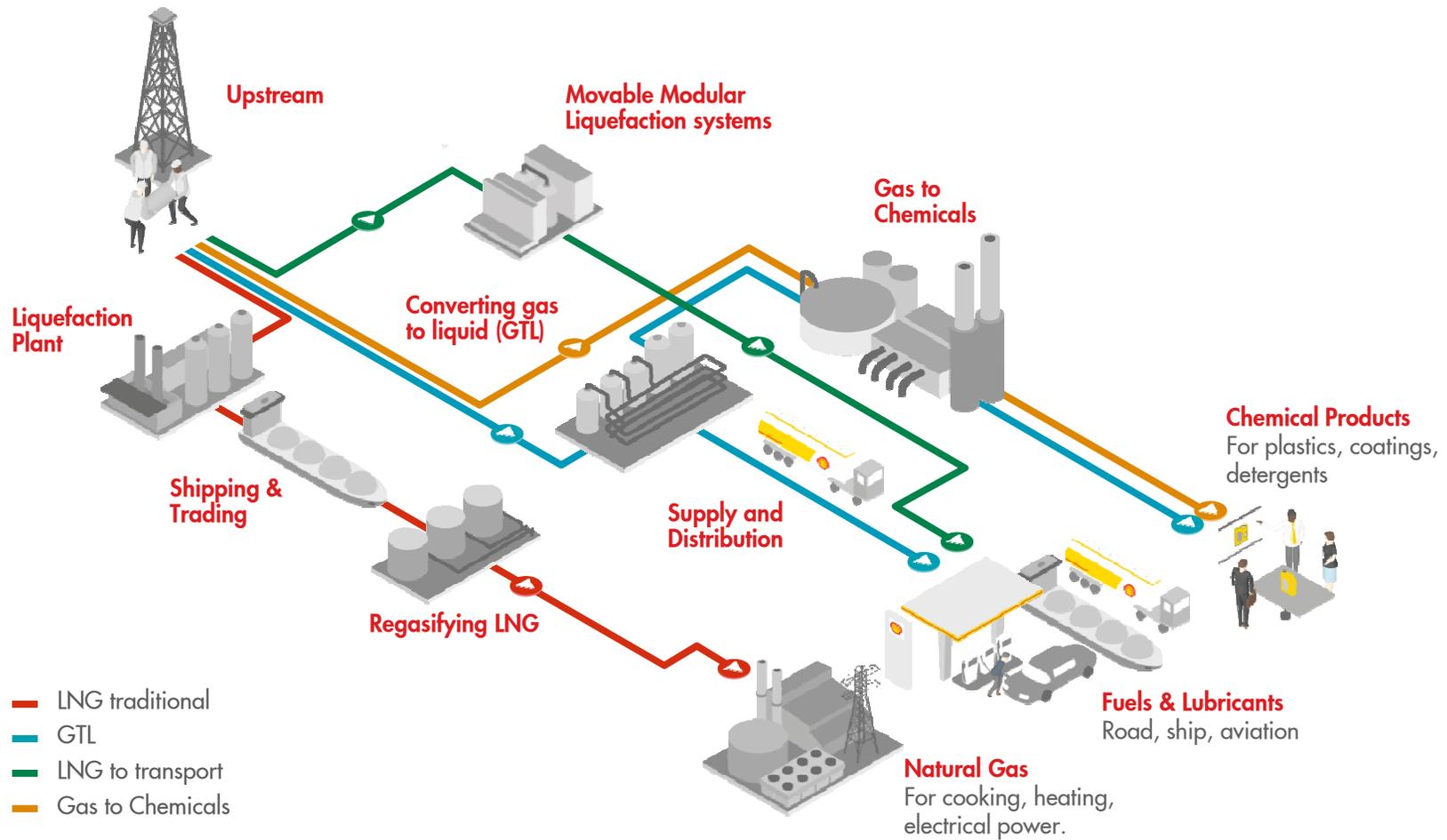
SHELL'S CONTRIBUTION TO THE LNG INNOVATION JOURNEY



GAS MARKET DYNAMICS



GAS VALUE CHAIN



LNG INTO DOWNSTREAM: INNOVATE & INTEGRATE



Stranded Gas



Coal Bed Methane



Pipeline Gas



Extended Well Test



Small scale liquefaction



Existing LNG Infrastructure



Global Marine, ECA



Road Transport



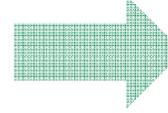
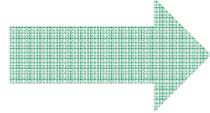
Mining



Rail



Stationary Power



GATE – ACCESSING THE GAS TO TRANSPORT MARKET

GATE



VALUE
PROPOSITION



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Coastal Marine



- Leveraging GASNOR infrastructure & capabilities (60K LNG transfers)
- Bunkering solution around PoR (PCN bunker vessel)
- Advocacy with European commission

Inland Waterways



- Greenstream launched in April 2013
- Greenrhine launched in August 2013

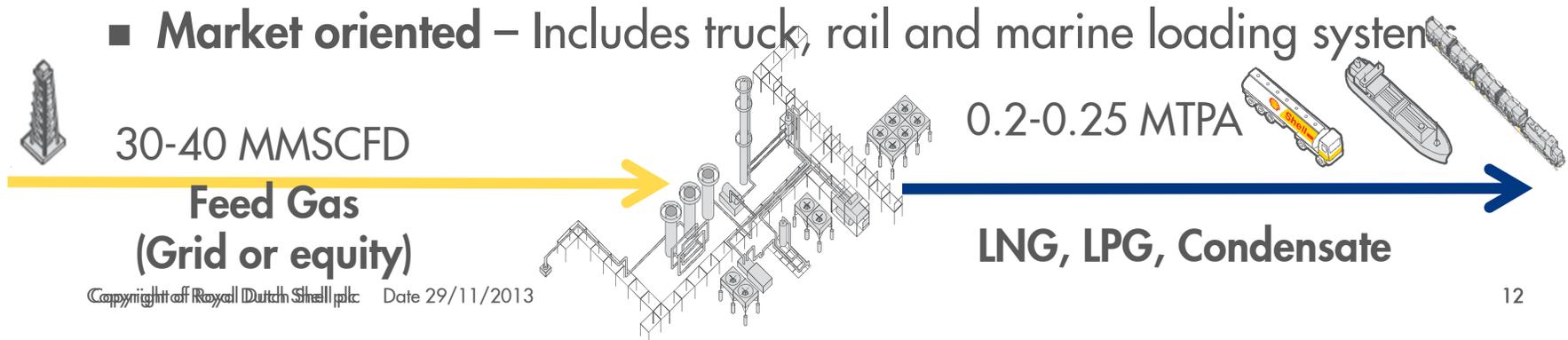
Road use

- Plan to launch 7 retail stations in NL
- Customer & OEM engagements
- Advocacy on harmonized standards

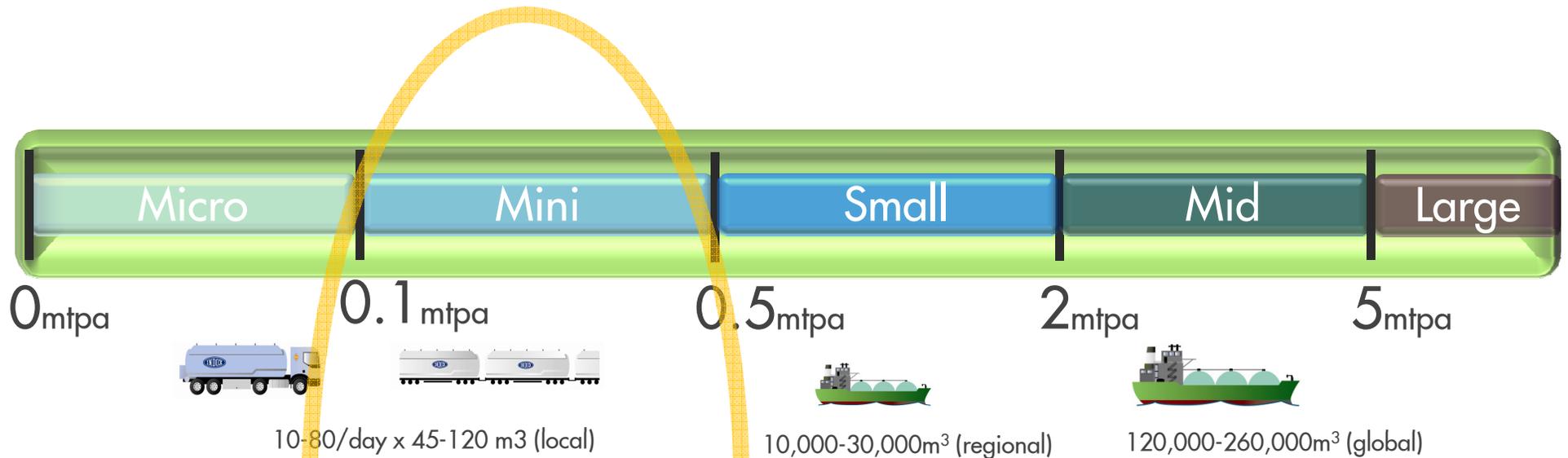
CONFIDENTIAL

MMLS: GLOBAL, FLEXIBLE, SMALL SCALE, MODULE BASED, GAS LIQUEFACTION SOLUTION

- **MMLS** – Site Independent small scale LNG design for global implementation in LNG for Transport space
- Design once, build many – leveraging **standardization** and **replication**, with design, supply chain and fabrication
- **Modularized system** – minimizing site construction requirements
- **Truck Transportable** – Flexibility in potential locations from port to site
- **Broad applicability** - wide range of environmental conditions and feed gas compositions
- **Market oriented** – Includes truck, rail and marine loading systems



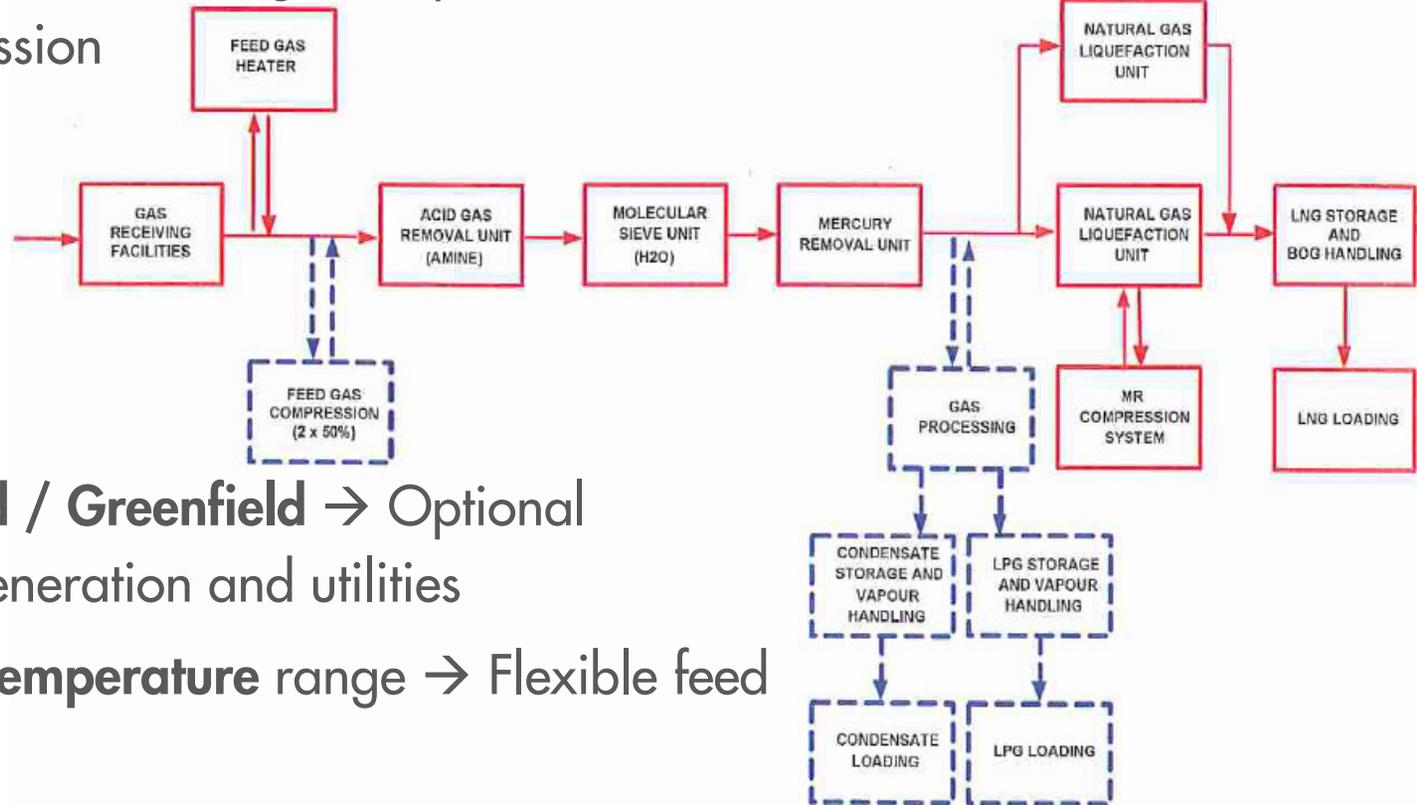
SMALL SCALE LNG - CATEGORIES



3 rd party design	Shell concept, industry design	Shell design	Shell design
Simple	Movable & Modular	Minimum equipment	Economy of scale, efficient
N ₂ expansion	SMR or N ₂	SMR	DMR or C3-MR
Enabler of oil production, flare gas Peak shaver LNG	Premium markets Replace marine gasoil, road diesel, naphtha, LPG	Phased deployment Supply gas grid /power plants	Traditional base-load Supply gas grid /power plants

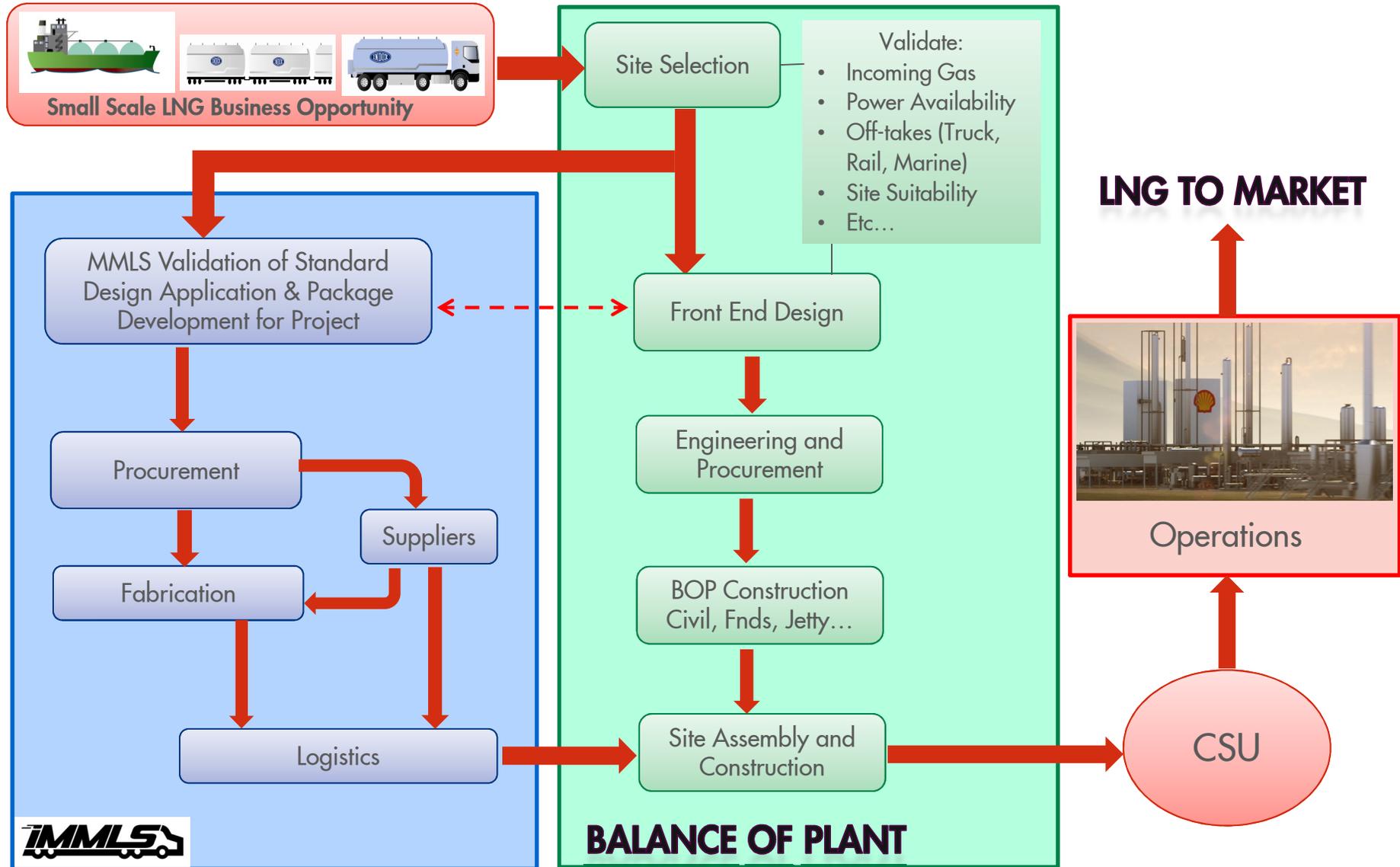
MMLS MODULAR APPROACH ENABLES A BROAD RANGE OF APPLICATIONS

- Feed **gas quality**: Lean – Average – Rich → Optional LPG and condensate extraction
- Feed **gas pressure** range → optional feed gas compression



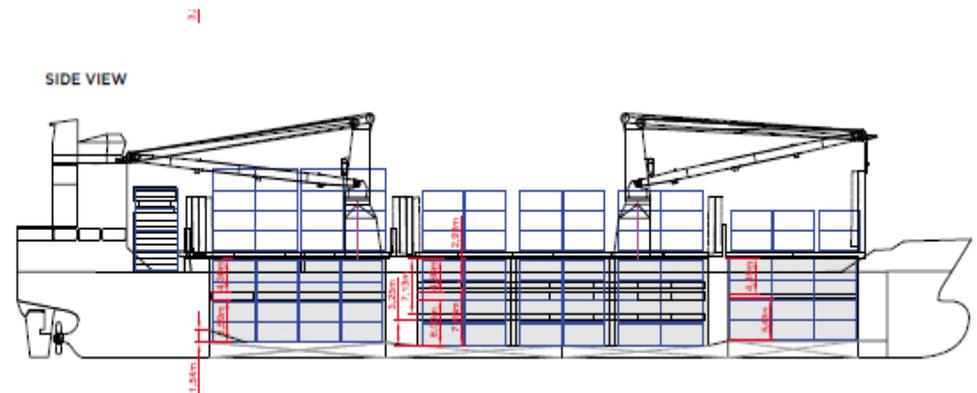
- **Brownfield / Greenfield** → Optional electricity generation and utilities
- Feed **gas temperature** range → Flexible feed gas heater

MMLS DELIVERY FRAMEWORK



TRUCKABLE MODULES ENABLE LOW COST, LOW TECH, LOW RISK, FLEXIBLE PROJECT LOGISTICS

- Modules transported by dedicated tween deck cargo ship
 - Pickup straight from fabrication yard dock
 - Dedicated vessel (2x per project)
 - Vessel includes 2 cranes for delivery flexibility
- Ship loose material in standard sea container
- Modules fit within oversized trucking envelope



CANADIAN GREEN CORRIDOR



Shell

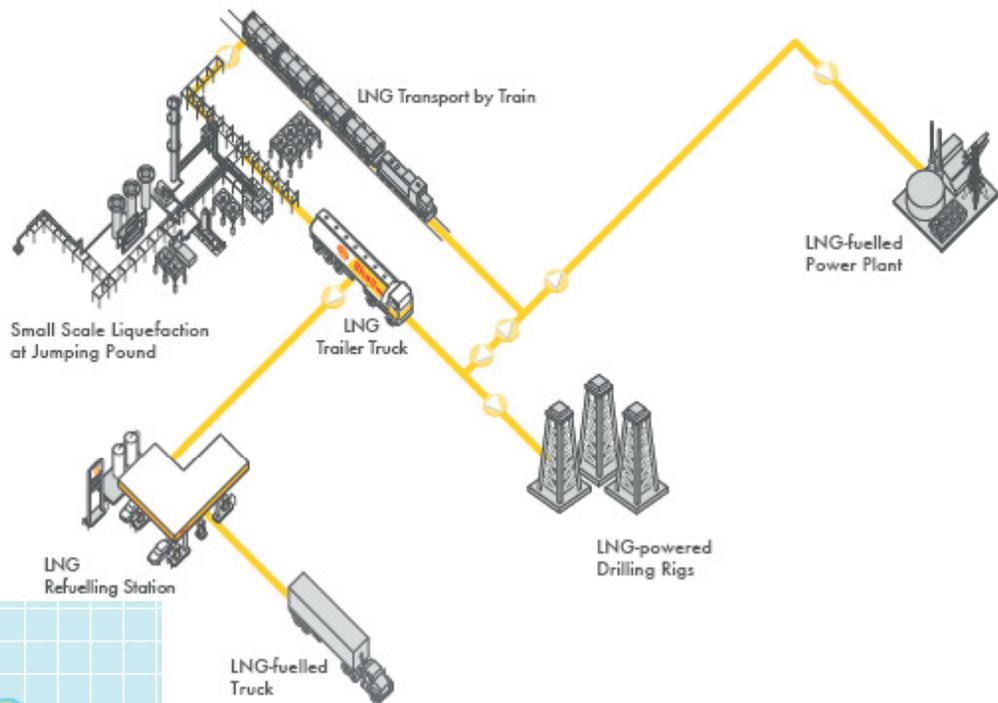
LNG

 TOMORROW'S FUEL TODAY



CANADIAN GREEN CORRIDOR

Canadian Green Corridor Value Chain



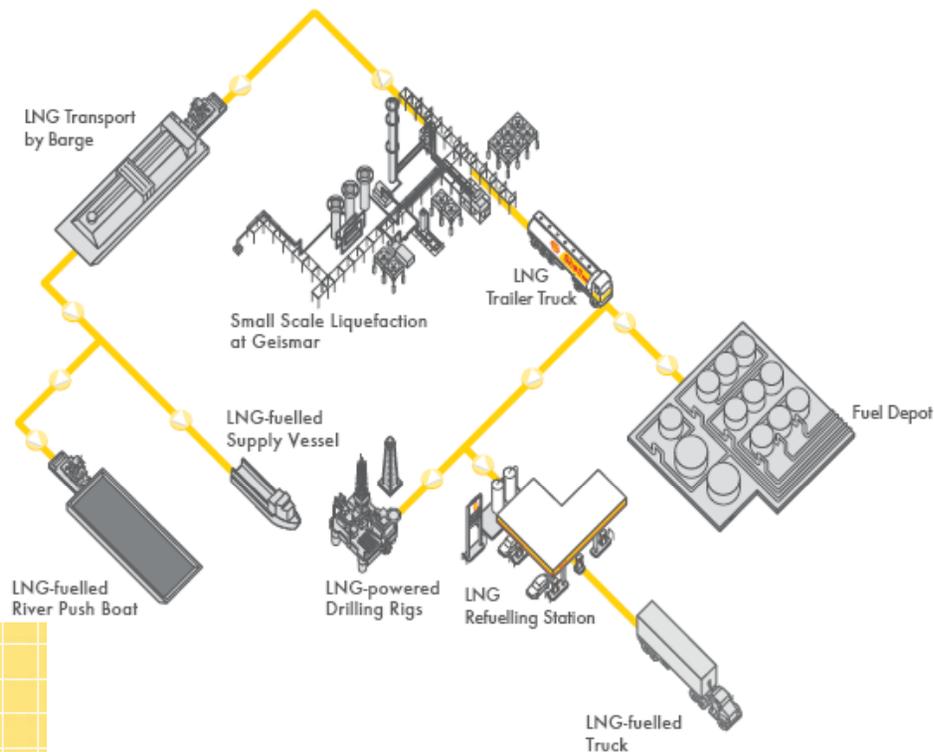
GULF COAST CORRIDOR

Shell
LNG
TOMORROW'S FUEL TODAY



GULF COAST CORRIDOR

Gulf Coast Corridor Design



- LNG Production
- LNG Distribution
- LNG Availability Zone

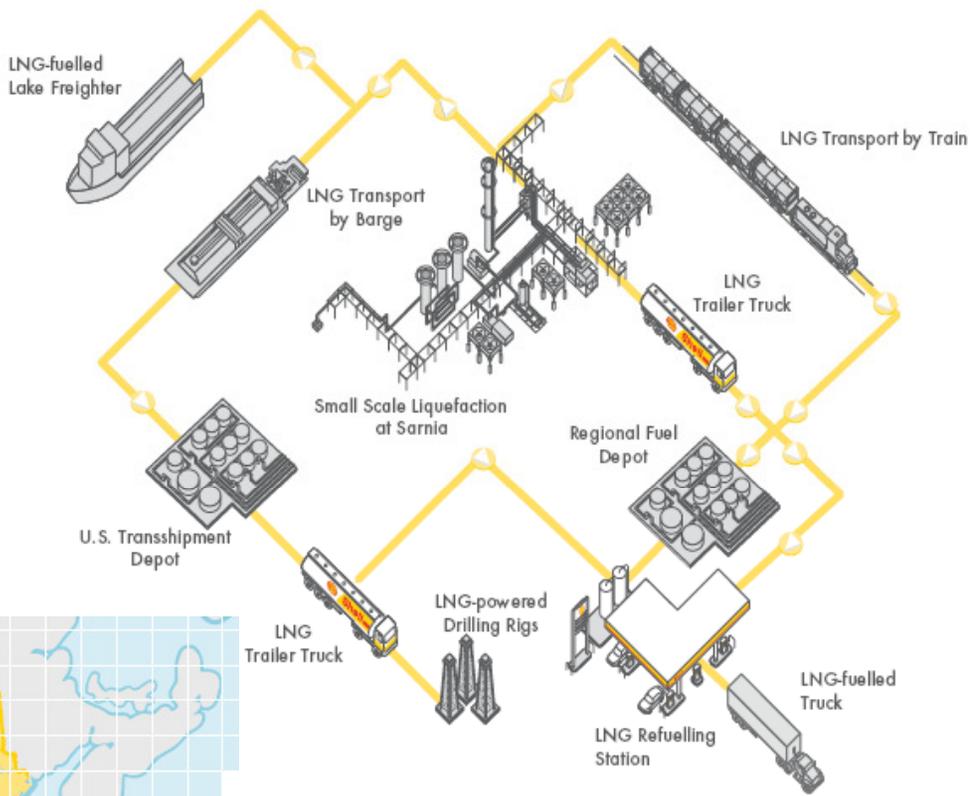
GREAT LAKES CORRIDOR

Shell LNG
TOMORROW'S FUEL TODAY



GREAT LAKES CORRIDOR

Great Lakes Corridor Design



Q & A

