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LNG: Demand opportunities and supply challenges

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The energy challenge

1. RISING DEMAND



- Population growth
- Economic growth
- More affluent society

2. SECURITY OF SUPPLY



- End of 'easy oil'
- Resource nationalism
- More unconventionals

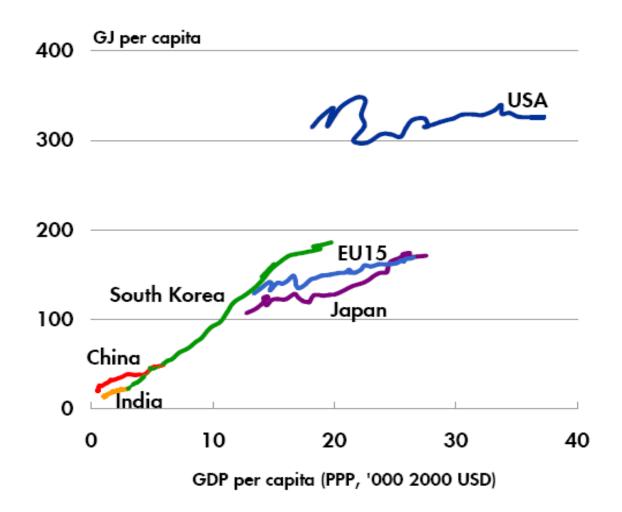
3. ENVIRONMENT & SOCIETY



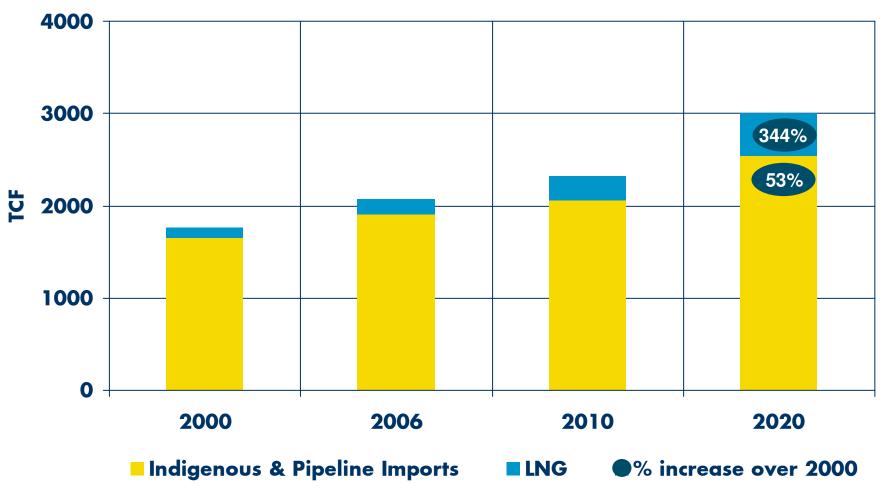
- Hydrocarbons remain dominant
- CO2 consequences



Major economies are climbing the energy ladder

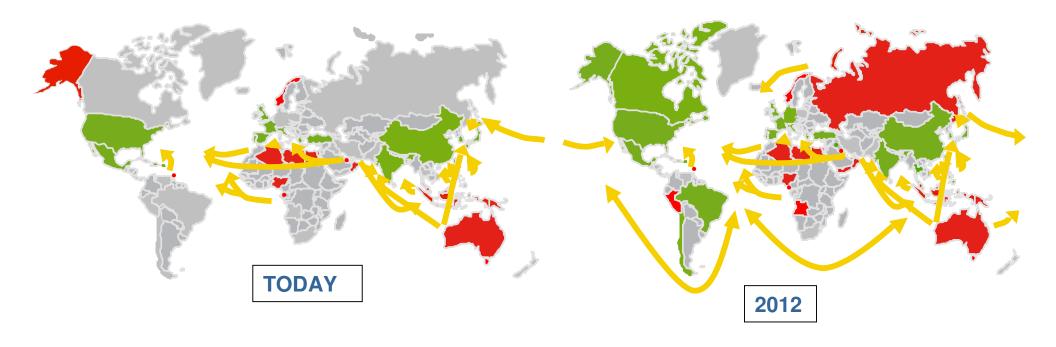


The growing role of LNG





Global market developments



LNG importers
LNG exporters

# Countries	TODAY	2012	% increase
LNG importers	17	29	70.6%



Supply challenges

1. DOMESTIC DEMAND



- Growing energy demand
- Natural gas exporting countries
- Competition with exports

2. HIGH EPC COSTS



- Skyrocketed costs
- Construction delays

3. PEOPLE AND SKILLS

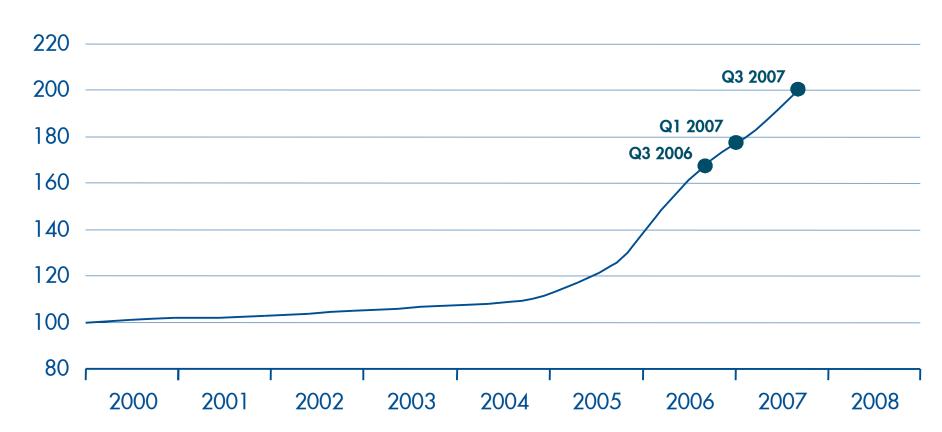


- More complex projects
- Large integrated projects
- Technical and project management challenges



Energy sector inflation

INDEX (2000 = 100)



CERA Upstream Capital Cost Index (UCCI)



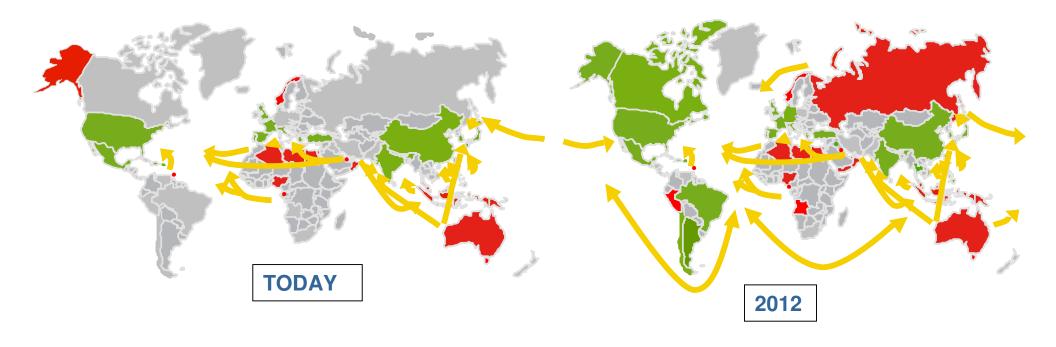
People and skills to deliver complex projects



Construction of Pearl GTL at Ras Laffan Industrial City in Qatar



Global market developments



LNG importers
LNG exporters

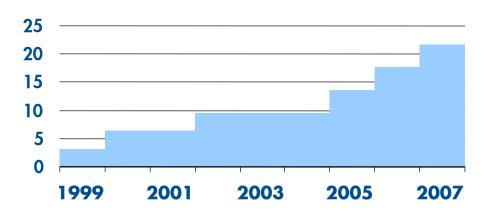
# Countries	TODAY	2012	% change
LNG importers	17	29	70.5%
LNG exporters	15	18	20%





Nigeria LNG: Rapidly growing capacity

PLANT CAPACITY (YEAR END 100%, MTPA)











Sakhalin II: World's largest integrated oil and gas project





Floating LNG (FLNG)

- Unlocking stranded offshore gas accumulations
- Small environmental footprint
 - No pipeline or dredging
 - Limited onshore support base
- Cyclone tolerant
- Redeployable





Shell's global LNG portfolio

Leading position ... and 5 new trains under construction

