

LNG Funding – The Next Chapter

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Strong LNG demand growth will entail significant capex for liquefaction capacity additions globally

LNG trade estimated to grow at a CAGR of about 4% during 2018-40 to 757 billion cubic meters (bcm)

LNG bunkering projected to increase at a CAGR of 11% during 2025-40 to reach 49 bcm

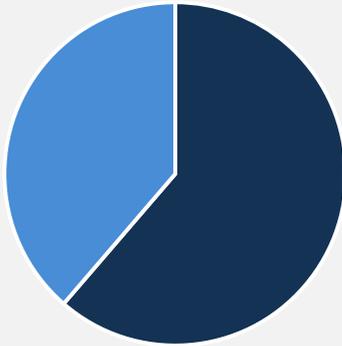
Share of LNG in global gas trade expected to increase to almost 60% by 2040 (42% in 2017)

An estimated US\$35 billion average per year required between 2018-40 to develop adequate LNG infrastructure

Debt has been the mainstay of capital investment in LNG liquefaction projects during 2008-18

Total capital investment =
~US\$196 billion (2008-18)*

Equity
39%



Debt
61%

The US alone accounts for
over a quarter of this capex.

Russia, Australia and
Canada account for a further
~55%.

Source: EY analysis of IJGlobal transaction data

*Refers to the total debt and equity financing received for pre-FID, post-FID and onstream LNG export projects; does not include LNG shipping and regasification infrastructure

Ratio of debt funding for LNG projects has seen an overall reduction over the last decade



Share of debt has declined overall over 2008-18 and has continuously declined annually since 2015.



The share of debt has fallen below the overall average of 61% in 2008-18.

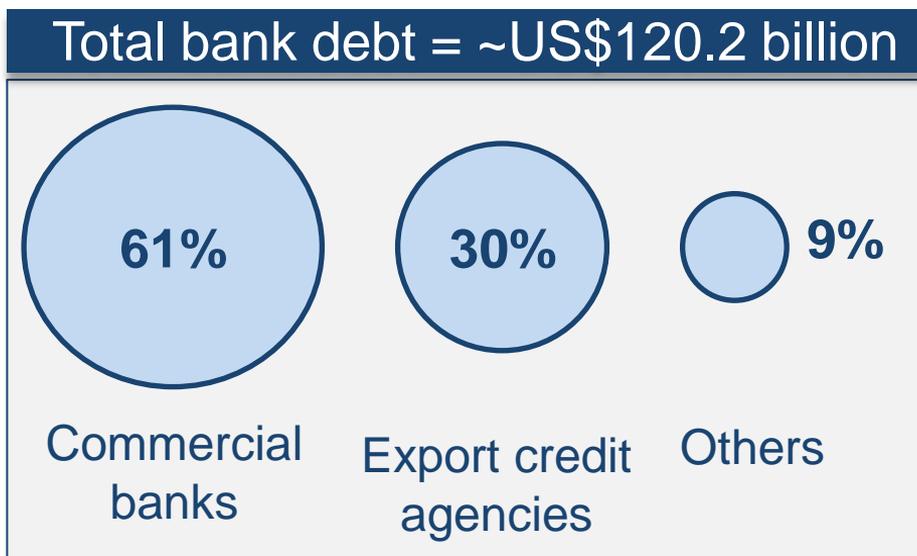


Recent LNG liquefaction Final Investment Decisions (FID) have relied on equity.

Source: EY analysis of IJGlobal transaction data

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Commercial banks lead in LNG project finance debt during 2008-18



Source: EY analysis of IJGlobal transaction data

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Global funding patterns for LNG liquefaction projects highlight preferences for debt over equity



LNG export projects with high equity funding – Canada, Yemen and Mozambique – are majority owned by Integrated Oil Companies (IOC).



Peru LNG with a 46% equity share of financing has 20% IOC ownership.



LNG projects in Asia-Pacific demonstrate a significantly high preference for debt.

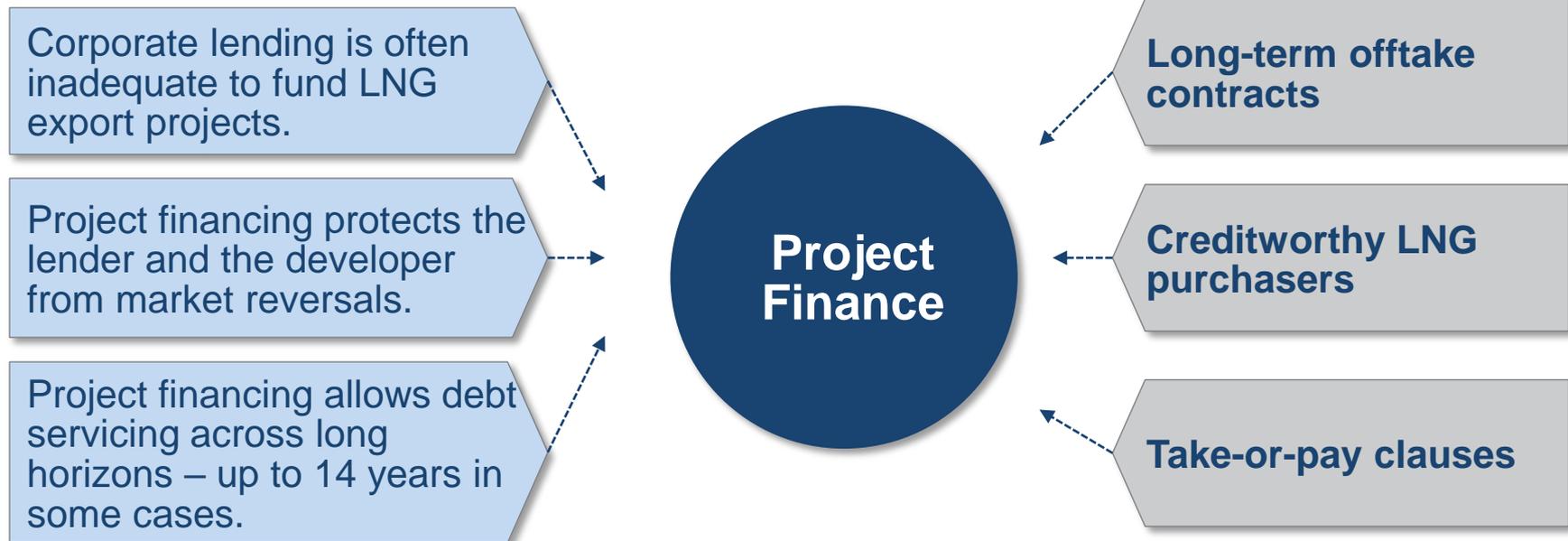


Large Australian LNG export projects, though IOC-owned, are debt-funded.

Source: EY analysis of IJGlobal transaction data

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Substantial equity investment from developers is required to secure pre-FID project financing



Asian and other markets are increasingly viewing LNG as a commodity market amid a transition



Buyers

Buyers seek to benefit from spot markets through smaller contracts, flexible contracts and hub-linked pricing



Sellers

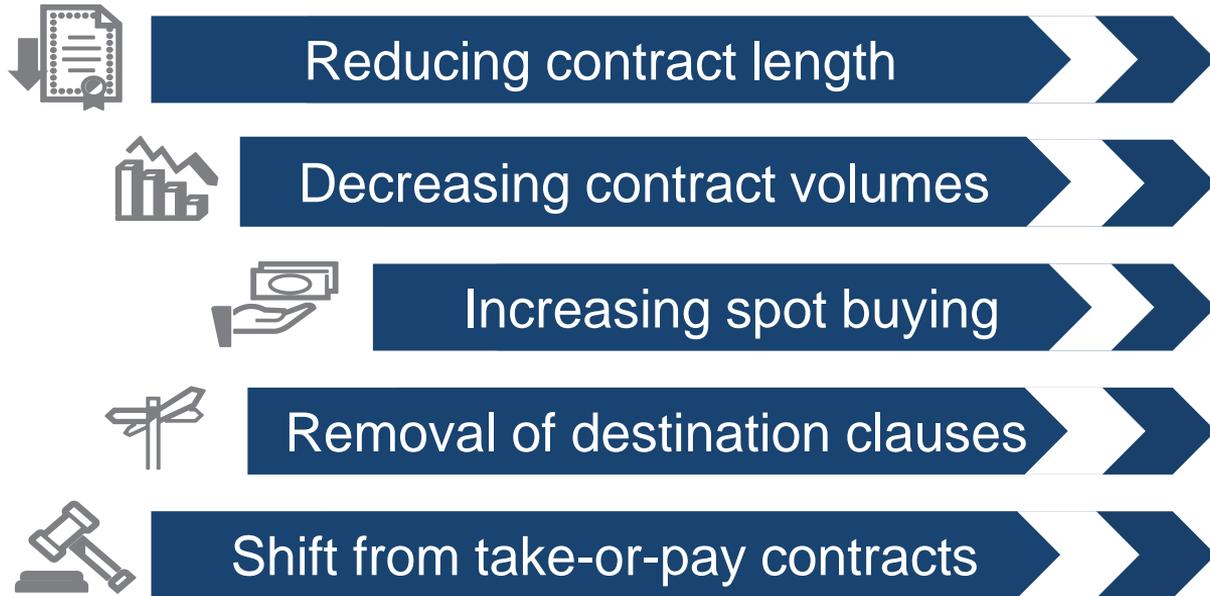
Producers want to secure cash flows and attract financing from long-term contracts, take-or-pay clauses



Financiers

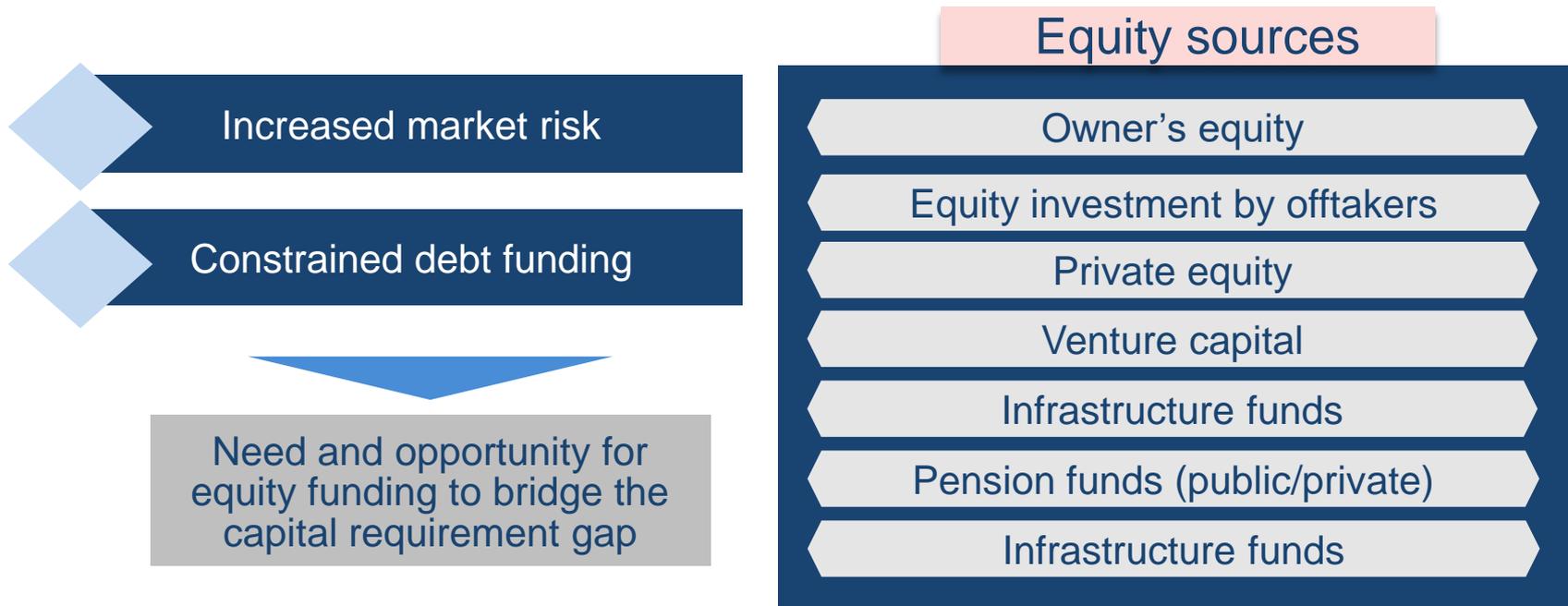
Financiers seek to manage risk exposure and prefer LNG projects with long-term offtake agreements, creditworthy buyers

Changing contract structures are leading to greater need for LNG export project developers to price and absorb increased market risk

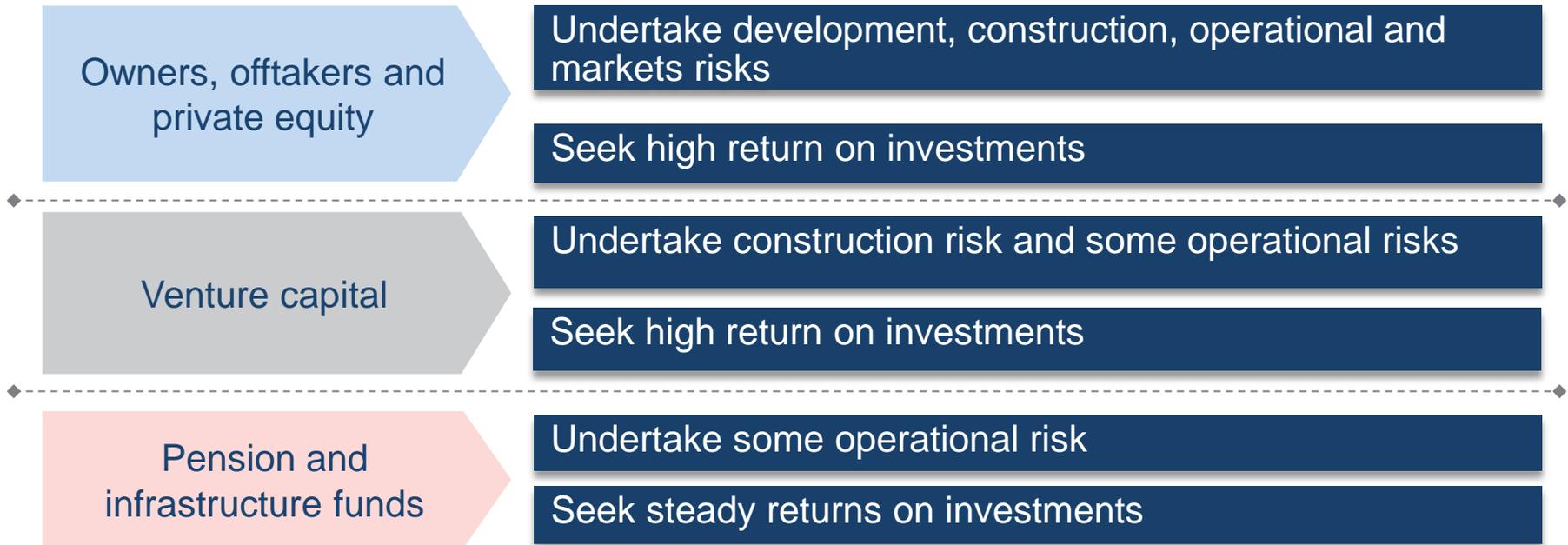


Buyers' demand for flexibility is not currently supported by a global trading mechanism, putting financiers in a tight spot.

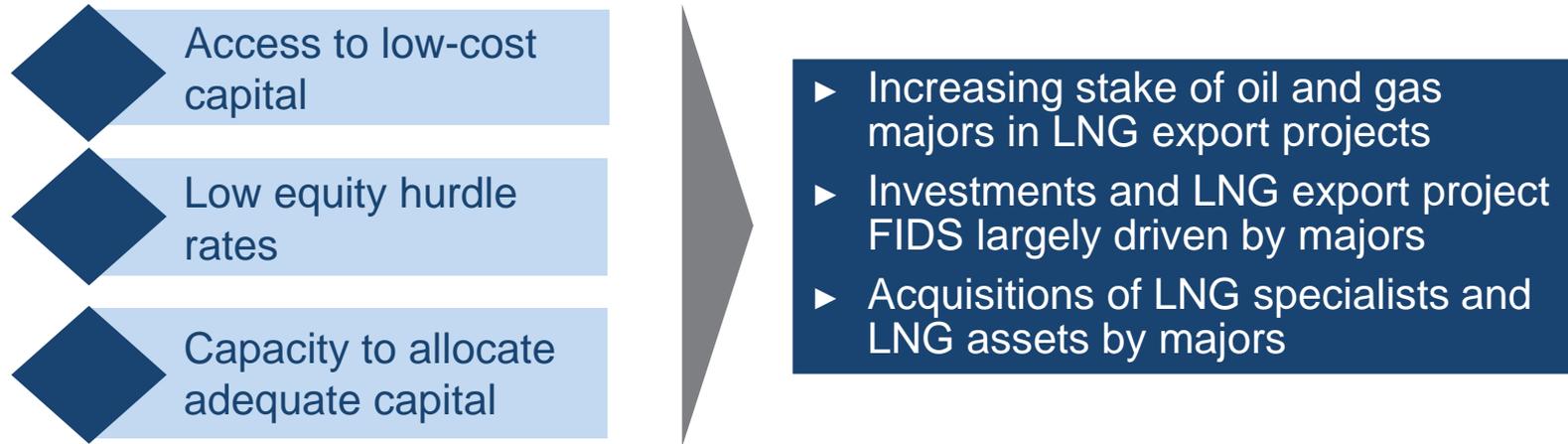
Financiers will seek to share more of the risk with developers (implying a greater share of equity funding)



Risk and reward considerations determine the scale and tenure of equity investors



LNG project developers with large balance sheets – oil and gas majors and national oil companies – are best placed to assume project lifecycle risks



Due to the complexity and capital intensity involved in production and supply, oil majors have a key role to play in LNG capacity generation.

Oil and gas majors have added the most liquefaction capacity

Majors'* share of natural gas production fell marginally during 2000-17

18% in 2000 to 16% in 2017

**Majors = Integrated oil companies and large independents*

Their share of liquefaction capacity has almost doubled during the period

19% in 2000 to 35% in 2017

**Majors = Integrated oil companies and large independents*

The share of Asian National Oil Companies (NOC), African NOCs, Asian utilities declined in that period; Middle East NOCs held their share at 17%

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ED None

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