### "A new lens"

Timera webinar

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How shifting pricing dynamics are driving LNG portfolio value



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# 'A new lens' webinar scope

### Agenda

- 1. Framework for mapping markets onto value
- 2. Market state of play
- 3. Evolution of pricing dynamics
- 4. Impact on LNG portfolio value
- 5. Q&A (via GoTo messaging)

### **Speakers**

David Stokes (Managing Director)



Olly Spinks (Managing Director)



David Duncan (Director LNG & Gas)



#### Disclaimer

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## Timera introduction

#### **Timera Energy**

- Specialist energy consultancy focused on gas, LNG & power markets and asset value
- Leading team of gas & LNG experts with extensive practical commercial experience
- Unique (i) global gas market model & (ii) asset valuation models, widely used to support investment decisions
- We advise many leading global gas & LNG companies

#### Timera's clients include



















J.P.Morgan



nationalgrid







**TEMASEK** 

#### Timera LNG & gas services

#### 1. Quarterly Global Gas service

- Dataset & chart book (S&D, price projections, asset value analysis)
- Global Gas Report (data driven analysis & commercial conclusions)
- Talk to the experts ('one on one' workshops)

#### 2. Bespoke LNG & gas consulting services

- Portfolio & asset valuation
- Contract structuring & negotiation support
- Transaction support & commercial due diligence

#### 3. LNG Bridge portfolio model

- Licensed stochastic portfolio valuation & optimisation model
- Model implementation & support services
- In-house capability development & interface support

## 5 key takeaways

Takeaway	Driver	Value impact		
1. Crisis not over	Tight market 2023-25; inelastic S&D at the margin	Watch asymmetric upside but prepare for regime shift		
2. Regime shift coming	Regime shift post 2025 HH influence to strengthen	Understand HH exposure in portfolio & interaction with regas strategy		
3. Higher volatility	• Higher volatility 2023-25, not to revert to pre- crisis levels after Asian demand response key	Portfolio flex = key value driver & risk mitigant		
4. Crude vs gas shift	Strong oil fundamentals as gas regime shifts	Large LNG portfolio value at stake from relative oil vs gas move		
5. Map market onto value	<ul> <li>Framework required to map market balance</li> <li>→ pricing dynamics → portfolio value</li> </ul>	Robust fundamental & portfolio modelling drives value capture & risk management		

### Framework for mapping markets onto portfolio value

#### Market drivers

#### 1A. Market state of play

Our analysis of current state of global gas market vs history

#### 1B. Market projection

Our modelling of the evolution of global market supply & demand balance

#### **Pricing drivers**

#### 2A. Market flexibility

Our modelling of evolution of global supply & demand flexibility & market regimes

#### 2B. Pricing dynamics

Our analysis of marginal pricing dynamics (e.g. spreads, volatility & correlation)

#### Portfolio value drivers

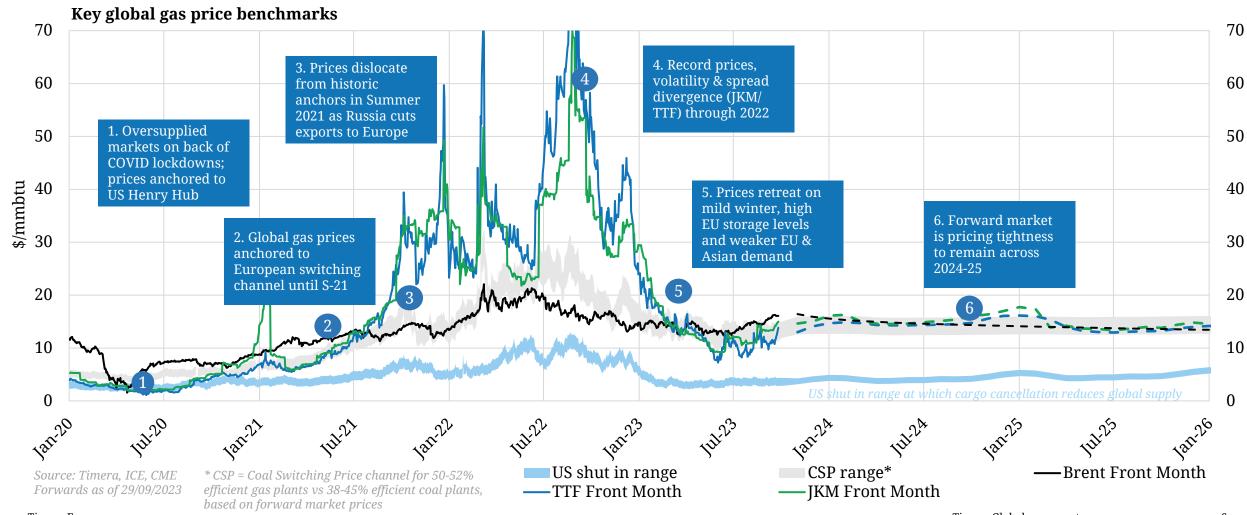
#### 3. Value drivers

Our analysis of how market drivers act on portfolio exposures to drive value & risk across portfolio components:

- Production
- Liquefaction
- Supply contracts
- Shipping & logistics
- Regas & storage
- Customer sales contracts

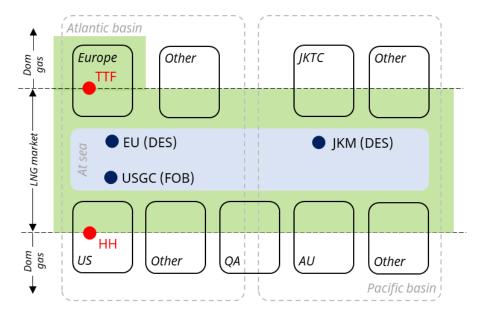
### The gas crisis is not over

2021-22 represents the most extreme shock in gas market history. The crisis has eased in 2023 but the market remains tight across 2024-25.



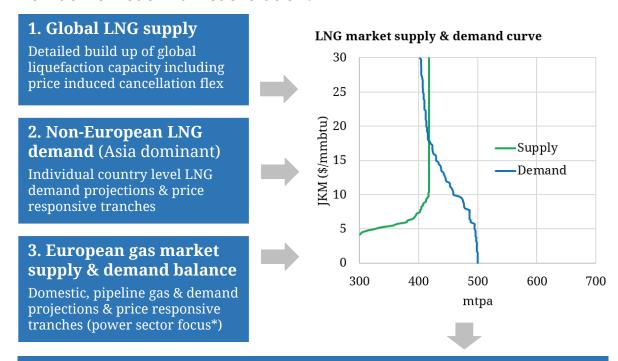
### Our model is built to analyse uncertainty

#### What is our model focus?



- Focus (i) LNG market & (ii) European gas market
- European gas market key as:
  - i. a provider of flex to the LNG market
  - ii. a driver of pricing dynamics

#### How do we model market evolution?

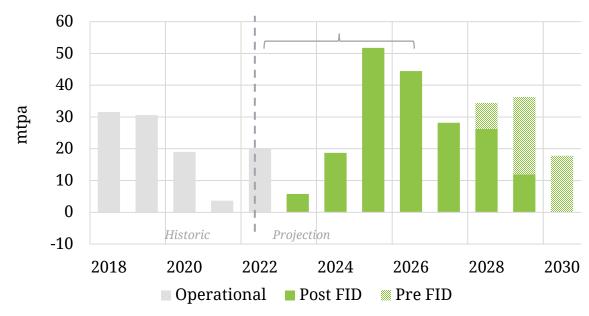


#### **Key output metrics**

- 1. Regional prices projections (hub & illiquid physical points)
- 2. Regional LNG & European gas balances (including flex optimisation)
- 3. Marginal cargo flows (between key supply & demand nodes)

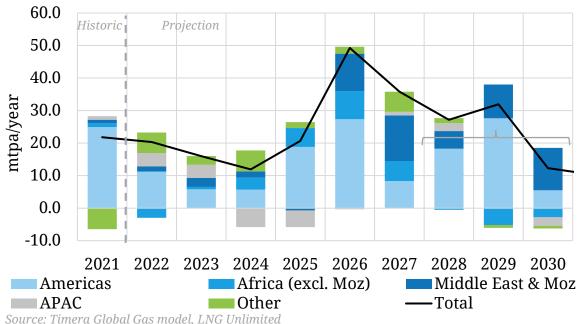
### Next wave supply surge to define regime shifts post 2025

#### Projected global liquefaction capacity growth



Source: Timera Global Gas model

#### Projected global LNG supply change year on year



#### 2024-2026: 'Supply constrained'

- Inelastic supply & demand at margin
- Elevated global LNG prices
- High volatility & risk of price spikes

#### 2026-2031: 'Next wave'

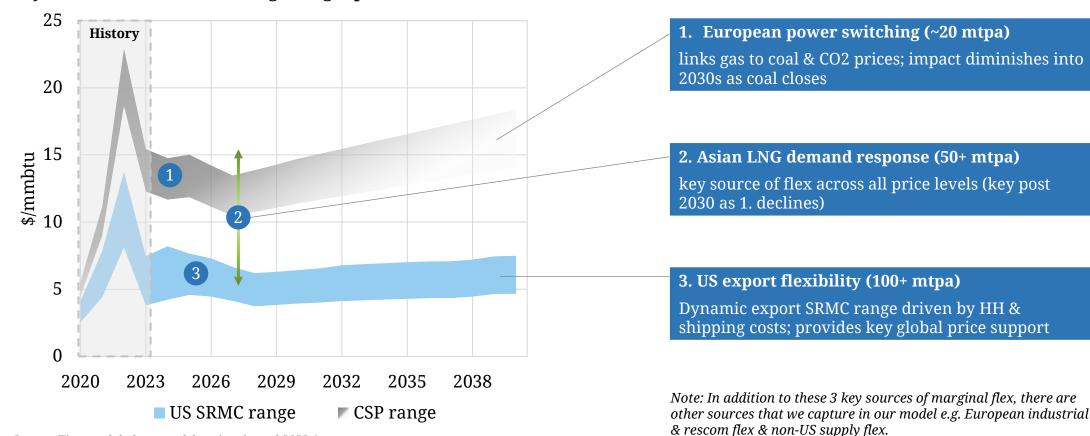
- US SRMC anchors prices & provides floor (JKM / TTF coupled with HH)
- · Elasticity at margin dampens volatility

#### 2031+: 'Rebalancing'

- Demand response setting prices
- Proximity to inelastic supply creates asymmetric upside & volatility risk

### 3 key sources of flex drive pricing dynamics

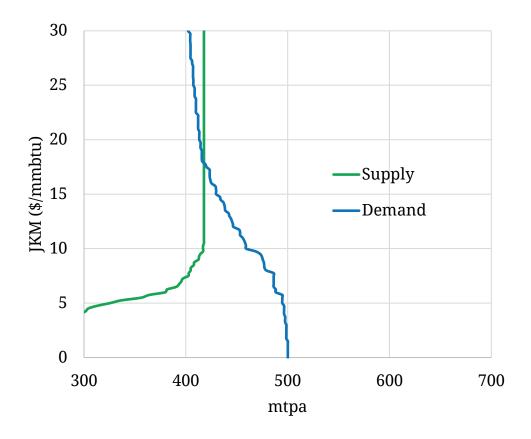
#### Key sources of flex that anchor global gas prices



Source: Timera global gas model - prices in real 2023 \$

### Global S&D curve elasticity drives pricing dynamics

#### 2024 S&D curve



#### 2024-26 'Supply constrained' pricing dynamics

Volatility			Correlation			
JKM	TTF	нн	TTF/ JKM vs HH	JKM vs TTF	TTF/ JKM vs oil	TTF vs Coal / EUA

#### Inelastic S&D at the margin drives e.g.

- High JKM/TTF volatility
- Low JKM/TTF vs oil correlation as gas price moves dominate crude
- Limited influence of HH

### 7 key commercial challenges

The next 5 years represent an unprecedented opportunity to build LNG portfolio value as market regimes & pricing dynamics shift.

#### **Business model driven challenges**

- **1. Cost of capital** capital costs increasing with rising interest rates & regime shift driven increase in market risk
- **2. Business model shift** growing hub penetration driving increased focus on trading focused business models to capture value & manage risk

#### Market driven challenges

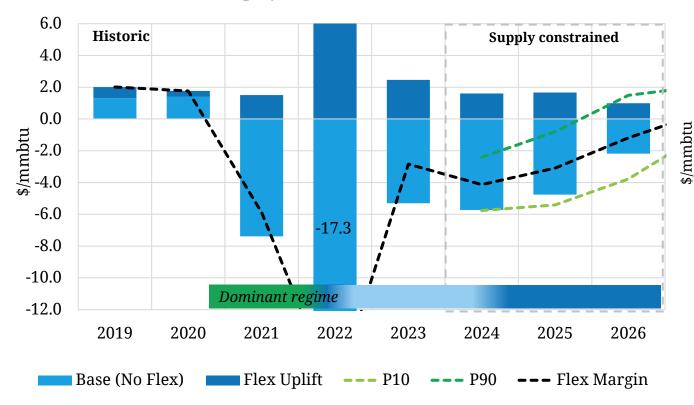
- **3. New supply** major wave of new supply & innovation in contract structures
- **4. Asian demand growth** key end user growth driving change in sourcing requirements
- **5. Regas capacity expansion** new wave of capacity to shape physical entry into Europe

- **6. Henry Hub exposure** regime shift & US export growth driving strong HH penetration
- 7. **Gas vs crude exposure** shift in crude vs gas fundamentals impacting portfolio value & risk

## Brent indexed SPA: value evolution



#### Brent SPA value backtest and projection (real)\*

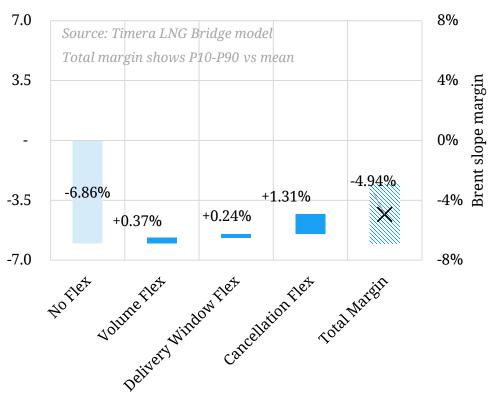


Source: Timera LNG Bridge model

#### Case study summary

- 12% Brent indexed sale into NE Asia, valued against spot market (JKM indexed). 12 cargoes per year, with 0.4 tbtu volume flex, 1 cargo/yr Sum/Win flex, 2 cargo/yr DQT flex
- Backtest uses outturn Brent & Asian spot prices, projection uses Timera central market scenario
- · Analysis uses LNG Bridge portfolio analysis model

#### 2024 mean value breakdown



### A&Q

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#### Contact us to find out more

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