



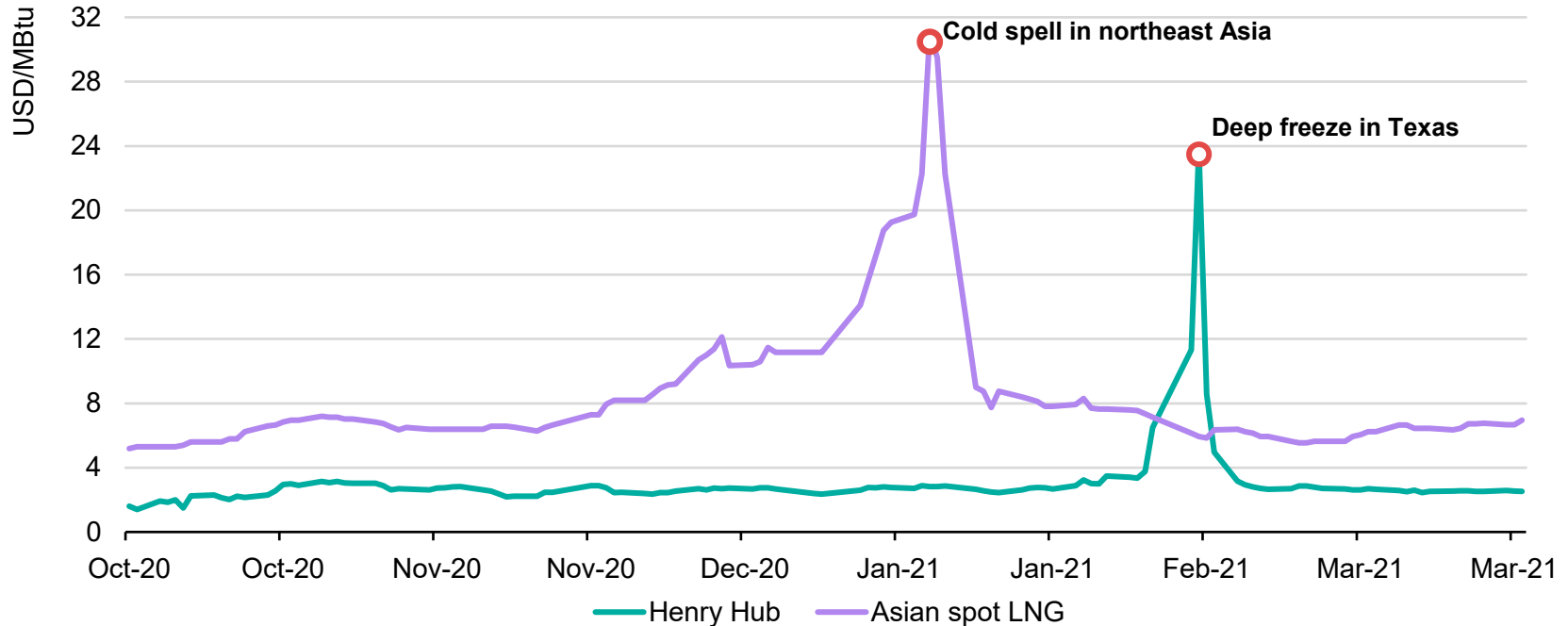
# LNG, security of supply and energy transition

Keisuke SADAMORI, Director, Energy Markets and Security

LNG Producer Consumer Conference, Tokyo, 5 October 2021

# Winter price spikes: a stark reminder of security of gas supply

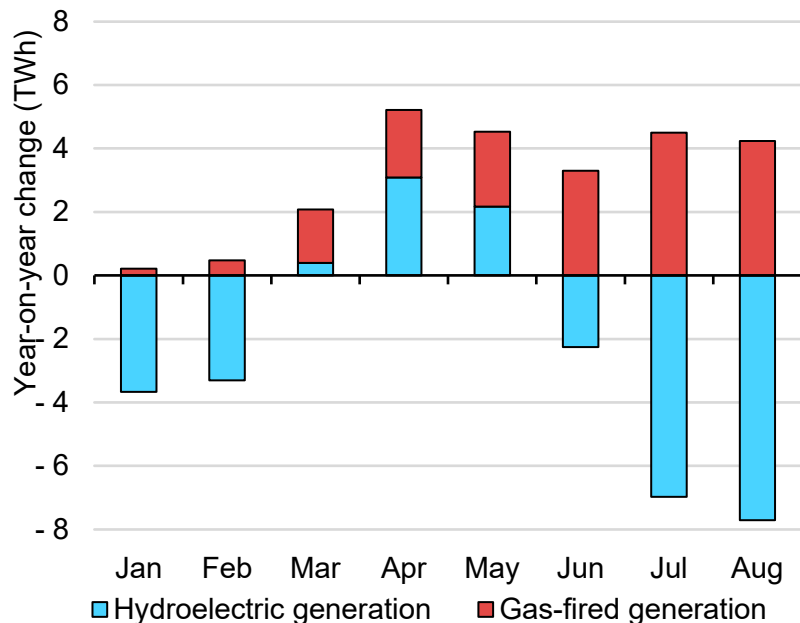
Key regional natural gas prices, October 2020 – March 2021



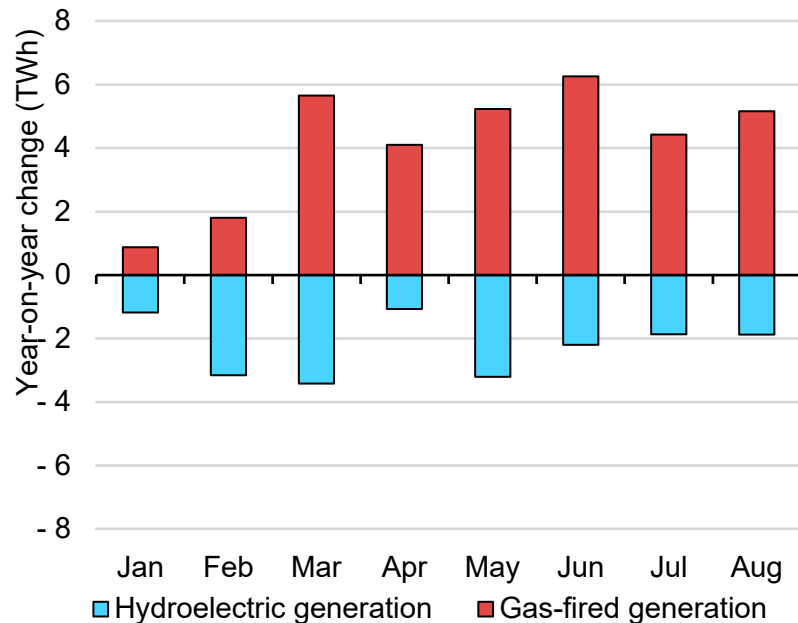
**Surge in demand combined with tight availability of natural gas led to price spikes in northeast Asia and the United States through 2020/21 winter.**

# 2021 droughts highlighted the key role of gas supply flexibility

### Hydro and gas-fired generation in Brazil (2021 vs 2020)



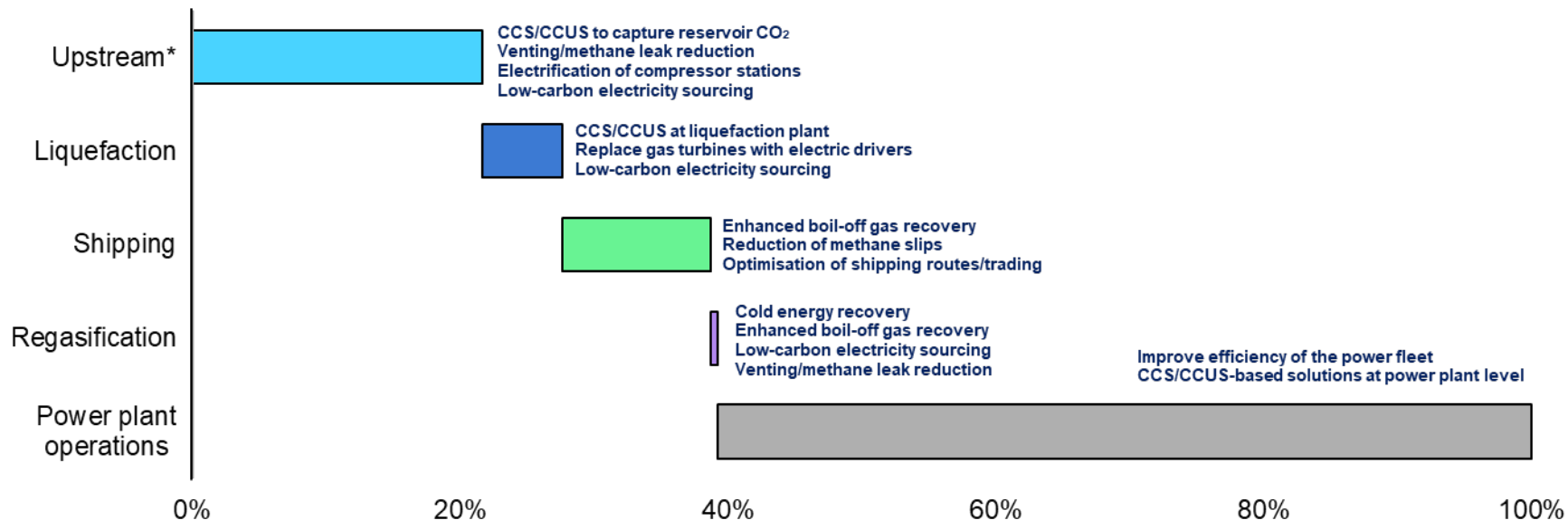
### Hydro and gas-fired generation in Turkey (2021 vs 2020)



**Flexible gas-fired power generation played a key role in providing back-up in hydro-rich power markets facing severe droughts through 2021.**

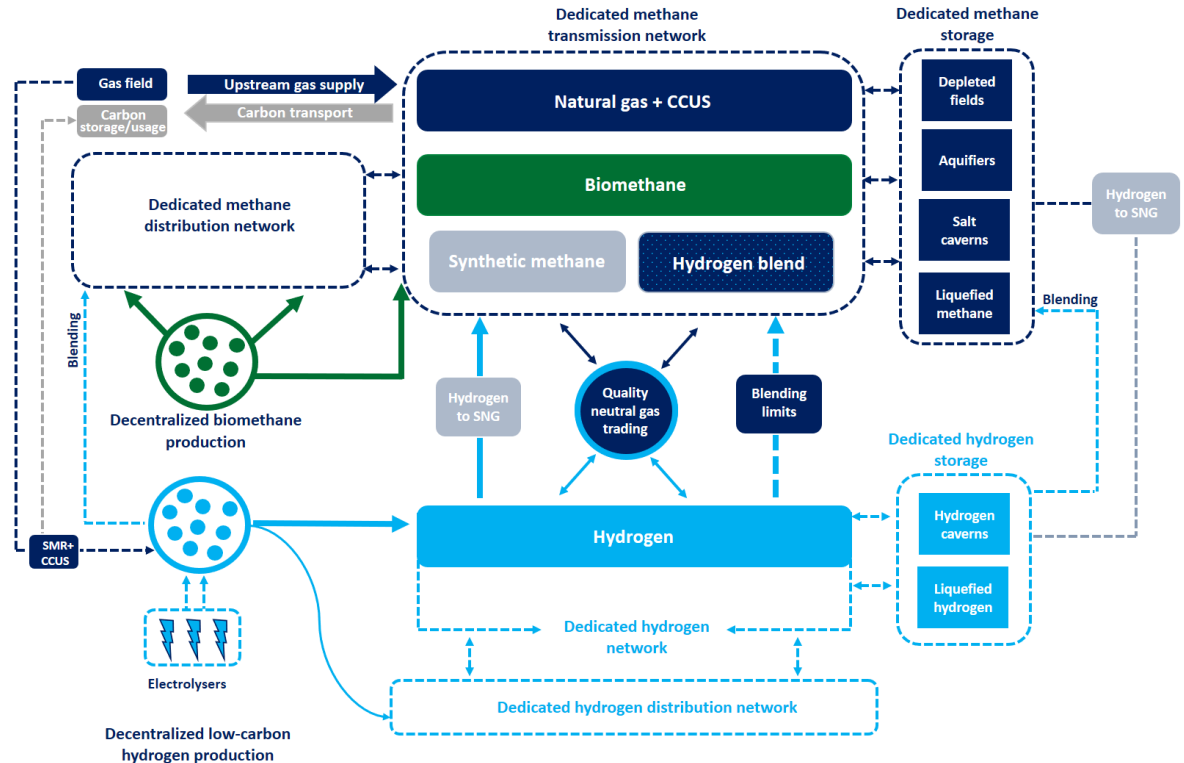
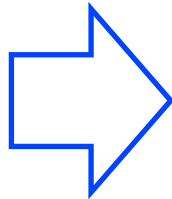
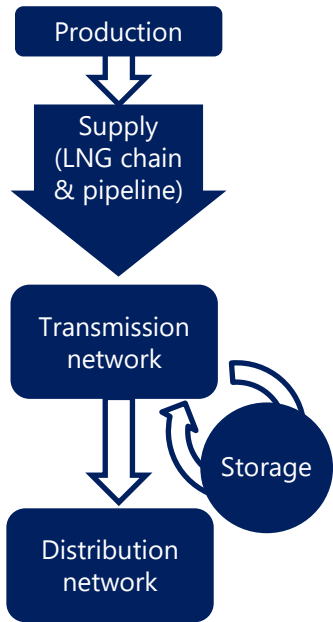
# In the spotlight: the emission intensity of LNG supply

Indicative breakdown of life-cycle GHG emissions for US LNG shipped to Asia, showing carbon-reduction options



**Reducing emissions from LNG will require effort through the entire value chain and a close cooperation between producers and consumers.**

# Low-carbon gases: system integration and security considerations



**The transition towards low-carbon gases will require prudent market design, taking into consideration the network integration challenges and changing supply flexibility of low-carbon gases.**

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