



3. Impact of COVID-19 on Oil & Gas Security (OGSS 2021)

APERC Workshop

The 62nd Meeting of APEC Energy Working Group (EWG) 17 October 2021 (EDT)

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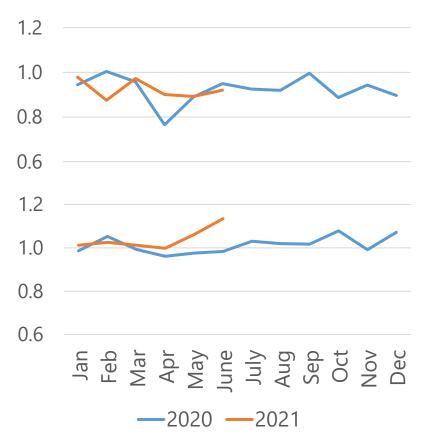
Overview of APEC oil and gas trends during the COVID-19 pandemic



Oil demand is reverting close to pre-pandemic levels, gas demand is surging past it, and both are growing

- COVID-19 caused an unprecedented, but temporary drop in oil consumption.
- APEC oil demand is reverting close to 2019 levels and poised to grow past it in the short-term.
- The fall in natural gas demand in early 2020 is temporary and partly due to warmer weather.
- APEC gas demand is already setting records and will likely continue to grow.

Monthly APEC Oil (upper) and gas (lower) demand, normalized to 2019 levels

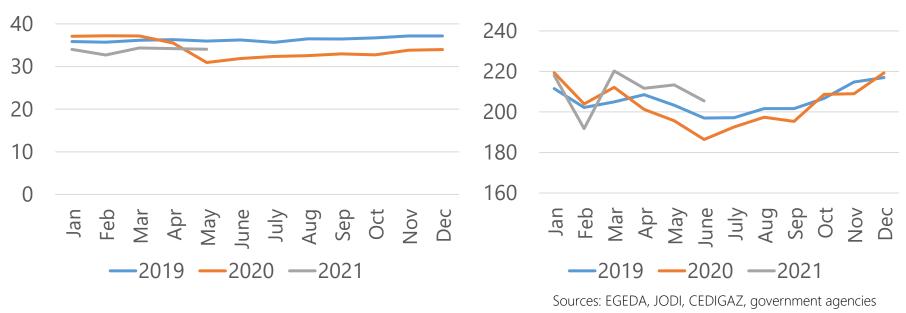


Sources: EGEDA, JODI, CEDIGAZ, government aagencies



Investment in oil and gas supply is constrained due to demand uncertainty and shifting investor preferences

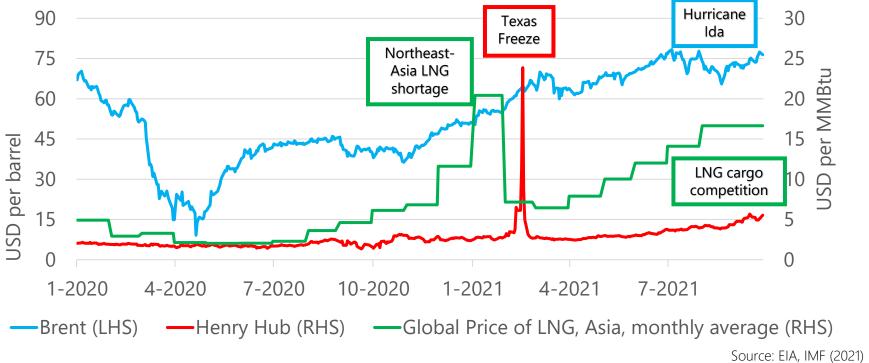
Monthly APEC oil production, Mb/d, 2019 to 2021 Monthly APEC gas production, bcm, 2019 to 2021



- COVID-19 is not a direct cause of supply trends, but it did accelerate the shift in oil and gas equities from growth assets to income-generating assets
- Activist investors are diverting higher amounts of capital expenditure away from oil and gas supply and towards the creation of low-carbon business models
- Oil production is constrained below pre-pandemic levels, gas production is rising but not enough to alleviate the global tightness in gas markets

Supply disruptions appear increasingly likely and some are already occurring.

Brent, Henry Hub, and LNG spot prices, 2019 to 2021



- Tight markets are challenging the affordability of both gas and oil, which could derail the COVID recovery
- Supply disruptions are manifesting in APEC, particularly in gas markets, and are more likely to occur than before the pandemic





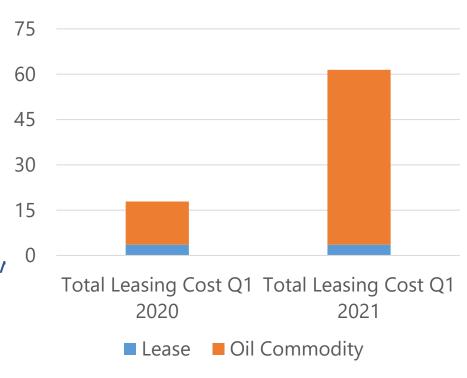
What can governments do to mitigate the impact of oil and gas disruptions?



The tried-and-true methods are key to improving APEC oil supply security

- Action OS1: Dedicate crude oil and petroleum product stocks to a Strategic Petroleum Reserve for energy security purposes
- Action OS2: Utilise low oil prices to replenish crude oil and oil product inventories
- Action OS3: Encourage the use of leases or tickets from existing SPRs in the APEC region to provide net import coverage in the absence of a domestic SPR.
- Action OS4: Mandate stockpiling at commercial operations.

Estimated Cost of US-AUS SPR Leasing Agreement



Source: Allens (2021), APERC Calculations

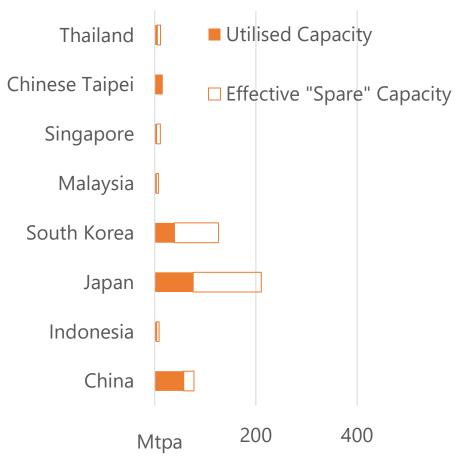


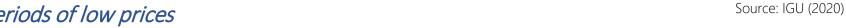
LNG reloading is an emerging tool to reduce the impacts of LNG disruptions

Action GS1: Assess the technical potential for apacity Utilisation of APEC Asian LNG Importers

LNG reloading at existing regasification terminals, implement reloading to the technical limits of each facility and include reloading on all new greenfield and expansion projects

- Action GS2: Identify collaborative financing opportunities for LNG reloading within and outside APEC economies
- Action GS3: Act to remove restrictive regulations or contract clauses that impede LNG reloaders from responding to spot market signals
- Action GS4: Evaluate the feasibility of LNG reloaders to top up LNG storage during periods of low prices

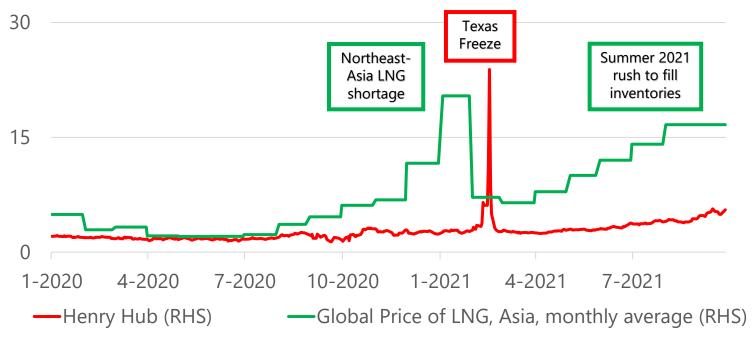






Emerging challenges to sustaining APEC gas supply

Brent, Henry Hub, and LNG spot prices, 2019 to 2021, USD per MMbtu



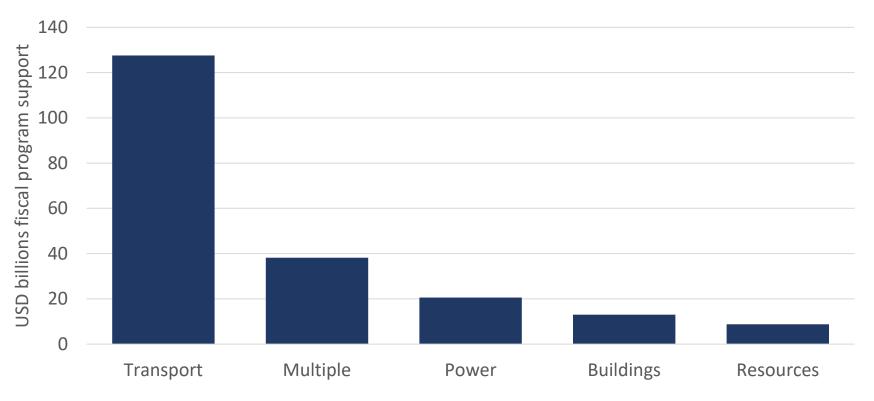
Source: EIA, IMF (2021)

- Action GS5: Evaluate the benefits and costs of APEC producer-exporters winterising their entire gas supply chain.
- Action GS6: Evaluate the feasibility of APEC LNG exporters coordinating their outage schedules and summer maintenance outages to reduce the impact on the global LNG market.



COVID recovery packages are generally not improving energy security

Announced fiscal spending on energy sector programs, in 2020 and 2021



Source: Energy Policy Tracker (2021)

Action B1: Utilise COVID-19 recovery packages to reduce import dependence



Summary

- Oil demand is reverting close to pre-pandemic levels, gas demand is surging past it, and both are growing
- Investment in oil and gas supply is constrained due to demand uncertainty and shifting investor preferences
- Disruptions are more likely now than before COVID-19
- The tried-and-true methods are key to improving APEC oil supply security
- LNG reloading is an emerging tool to reduce the impacts of LNG disruptions
- Investing COVID recovery spending into emerging energy could help reduce import dependence





Thank you for your kind attention.

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