

Presentation to the G20 Energy Transitions Working Group:

Recent Energy Security Issues and Risks to Sustainable Recovery

International Energy Forum

24 March 2021, Yogyakarta

🔀 🛟 Briefing on Global Energy Security



Key Messages

Update on Current Situation

What is the Challenge

How should the G20 respond?





March 24 - Yogyakarta, Indonesia - Christof van Agt

Recent Energy Security issues and Risks to Sustainable Recovery

Recover Together and Recover Stronger

3

Key Messages

- As of January 2022, neither oil production or demand had returned to precovid levels
- Low inventories combined with low spare capacity gives little ability to absorb a supply shock
- Neither producers nor consumers benefit from current situation, all co-depend on well functioning energy markets
- Clear, stable, long-term energy policy guidance must unlock investment for more diverse energy supplies, affordable access, and inclusive development
- Temporary and targeted measures e.g. to shield consumers should not add to market distortions or create new barriers
- Easing access to finance, clean technologies, and resources including critical minerals, will accelerate transitions and boost sustainable growth



Update on Current Situation



As of January 2022, oil demand was at 97% of pre-COVID levels in January while crude production lags at 93%



Crude oil production versus 2019 annual average (25 country aggregate)

Oil product demand versus 2019 annual average (43 country aggregate)





Lower inventories combined with low spare capacity means the market has little ability to absorb supply shocks



OECD inventories - (commercial crude oil and petroleum products) million barrels



INTERNATION ENERGY FORUM

What is the Challenge



Some market participants are "self sanctioning" and shipping rates have spiked as markets adjust

Russian Urals (Med) crude oil price minus Dated Brent **Dirty Tanker Rates** dollars per barrel Dollars per ton (vessel size kDWT) 5 45 Baltic Sea to UK/Continent \$/Ton 100 40 Black Sea to Mediterranean \$/Ton 140 35 30 -5 25 20 -10 15 10 -15 5 -20 0 Jan 19 111/19 OCTAS Joury Mary my Ochy Poury Dary mry Ochy Doug 2019 2018 2022 2020 2021 Note: Dirty denotes cargo of crude oil and other unfinished/unrefined oils Source: IEF, Bloomberg L.P. Source: IEE Bloomberg I



Russian supply assessments differ, risk of shut-ins grows due to limited domestic storage

Russia Supply Growth Forecasts for 2022 (Y/Y) Million barrels per day



 Feb
 Mar
 Feb
 Mar
 Feb
 Mar

 IEA
 OPEC
 EIA

Source: IEF, IEA, OPEC, EIA



OECD IEA and EU aim to sharply reduce fossil fuel imports starting with gas

EU27 Gas Demand and Russian Gas Exports to Europe



IEF, Source: Eurostat Oxford Institute for Energy Studies, Gazprom, Statista, IEA, European Commission



BCM 450

Europe diversifying away from Russian energy supplies will shift global markets and supply chains





Crises add to an already uncertain energy future The gap between outlooks exceeds current market size





Uncertainty hinders already low investment in oil & gas supplies required during transition

Billion USD (nominal) 600 \$523 \$484 500 \$481 \$450 \$441 400 \$410 \$348 \$341 300 \$309 200 100 0 2015 2016 2018 2019 2021 2030 2017 2020 2025

Source: IEF, IHS Markit

Global Upstream Oil and Gas Capex



Consumers exposed to unsustainable price shocks

Easing of taxes and duties to provide temporary relief



EV1000L EU27 Oil Product Prices with and without Taxes and Duties
2,500.00



IEF, Source: EUR 27 Weekly oil bulletin n° 2091, prices at 14/03/2022



High energy and food prices create risks to sustainable recovery



Primary Commodity Price System - Energy, Food and Beverage Indexes Index (2016 = 100) Primary Commodity Price System - Energy, Food and Beverage Indexes Percent change year-over-year

Approximately 2.5 billion people live in countries where food and fuel imports combined are 30% or more of total imports

Heat or Eat

Food and Fuel imports as a percentage of total imports (2019)

10-20%	
10-2076	
20-30%	
30-40%	
40-50%	
50-68%	Source: IEF, World Ban



These risk result in ongoing GDP downgrades amounting to a ~1.0 percentage point reduction so far

Global GDP Forecasts for 2022

% Global Growth



Source: IEF, IMF, World Bank, IEA, OPEC, Barclays, UBS, Scotiabank, Oxford Economics, Bloomberg



Accelerated transitions drive up critical mineral prices creating new co-dependencies and governance demands

Electric Vehicle Fleet vs Lithium Price US\$/v Hundred Thousand/y -Lithium Price RHS EV Fleet LHS



How Should G20 Respond?



G20-IEF Global Economic and Energy Market Governance



Avoid disorderly and costly transitions in fragmented global energy markets

Fortify global energy trade and investment rules, reduce tariff and non-tariff hurdles, step-up investment in RD&D and facilitate technology transfer.



Intensify producer consumer dialogue with market stakeholders

Reinforce rule of law and collaboration, pool resources to accommodate changes in flows and engage with private sector stakeholders to address challenges



Bolster energy security and market stability with investment in productivity, flexibility, and resilience

Strengthen energy productivity and connectivity to enhance efficiency and optionality, Commoditize available and stimulate investment in new infrastructure capacities



Stimulate sustainable growth with clear and stable policies focused on diversification and development

Shield consumers with temporary and well targeted measures. Diversify access to markets and resources, including critical minerals to accelerate sustainable growth.





Alert to measures taken, minimize global impacts and review emergency mechanisms

Assure timely notification and transparency on measures taken, optimize preparedness, policy and market responses to minimize global impacts.

Deepen collective market insight on energy sector investment, trade and market dynamics

Monitor physical and financial market fundamentals to ensure that supply recovers in step with demand growth. Ensure viable market signals and risk management.



Expand global energy markets data to meet new demands

Including data on energy flows, storage spare capacity and critical minerals, and leverage alternative metrics to overcome data gaps.

Expedite share and report on data faster

Step up more regular submissions directly to the Joint Organisations Data Initiative including by leveraging digitalization for nearer to real time assessments.





The Global Home of Energy Dialogue ief.org