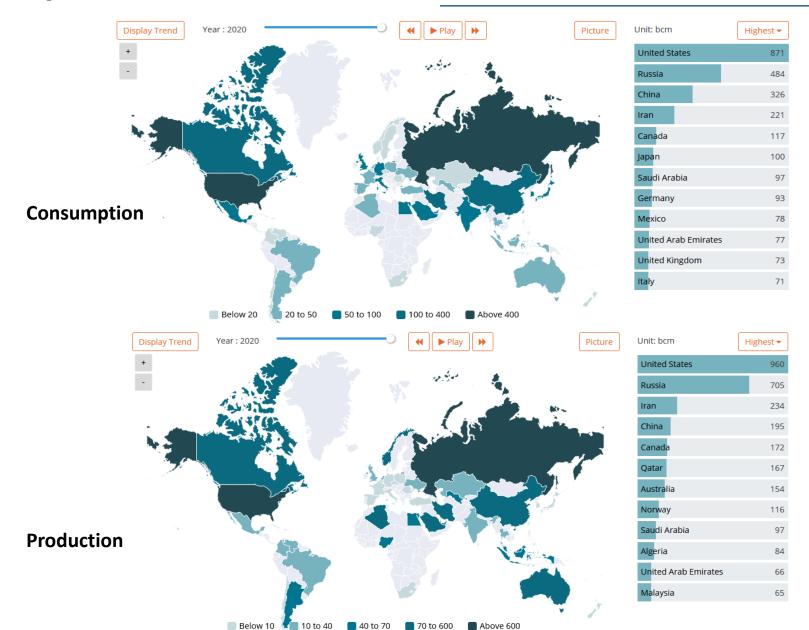
European Energy Crisis

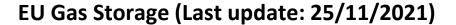


25th National Conference "Energy and Development 2021"

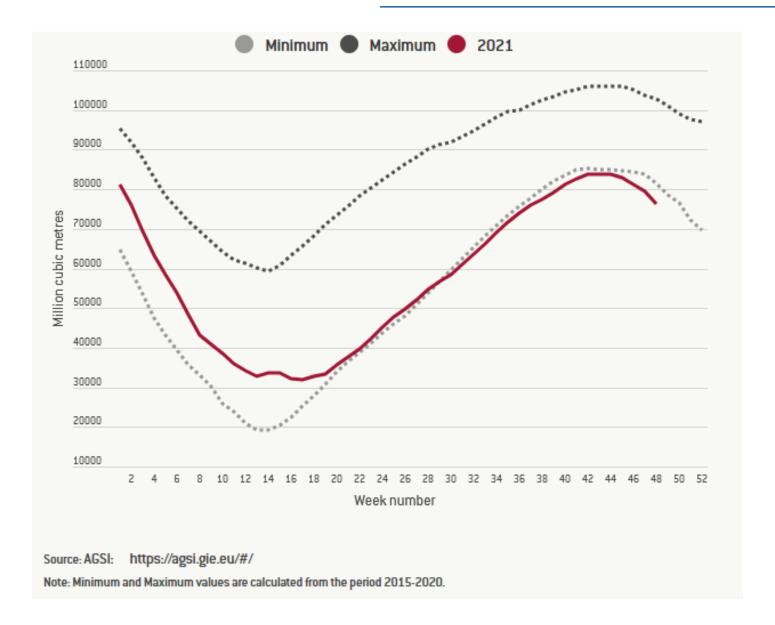


Global Natural gas Consumption & Production (2020)





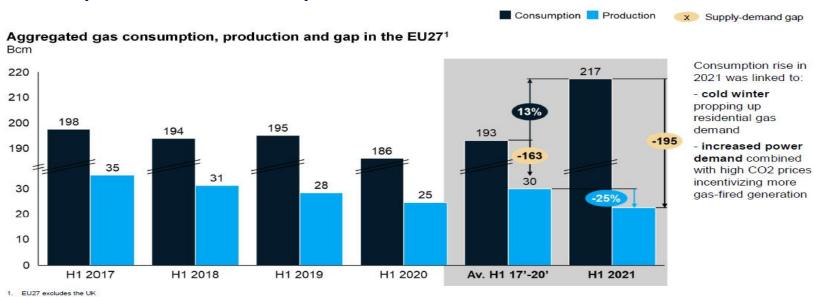






Additional Gas import needs in European Market due to decarbonization

H1 2021 saw a widening of the gas import gap by ~32 bcm with stronger European consumption and a decline in production



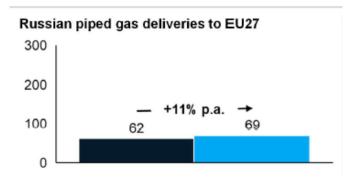
Source: EUPipeFlow by McKinsey Energy Insights, ENTSOG

elpedison

McKinsey & Company

H1 2021 Russian piped gas deliveries higher than H1 2020 by ~7 bcm

Russian piped gas deliveries and share in EU27's consumption, bcm, %

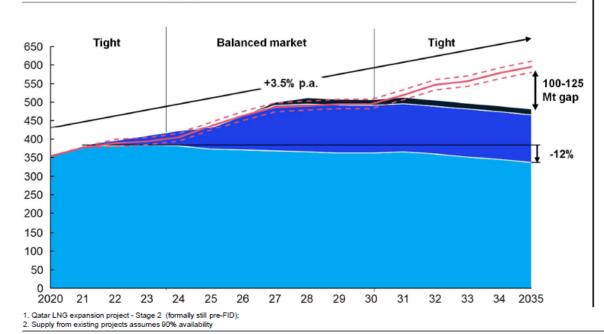




Balances have significantly tightened throughout the next decade delays with ~100-125 Mtpa of new capacity needed by 2035



Global LNG available supply capacity and demand to 2035^{1,2}, Mt



Key highlights

High storage withdrawals over a cold 2020/21 winter, supply outages and a rapid rebound in LNG demand have led to an accelerated tightening of the LNG market

The market is expected to remain tightly balanced throughout the 2020s with no major periods of supply overhang or shortage

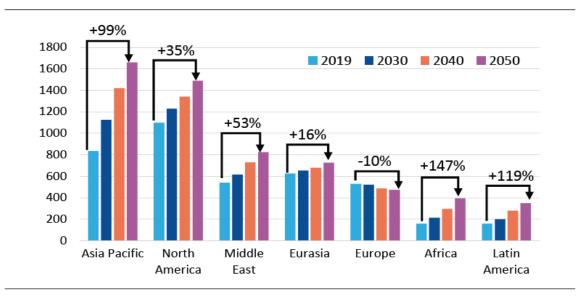
A consistent LNG supply-demand gap will start to emerge from 2031 Output from existing projects is expected to decline by >5% by 2035, increasing the need for new LNG capacity

McKinsey & Company

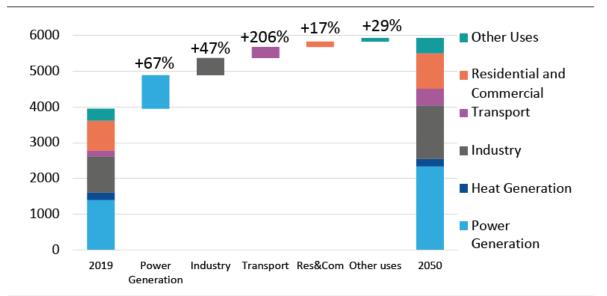
Source: McKinsey Energy Insights; Gas Intelligence Model by McKinsey Energy Insights



Trends in global natural gas demand by region (bcm) & by Sector



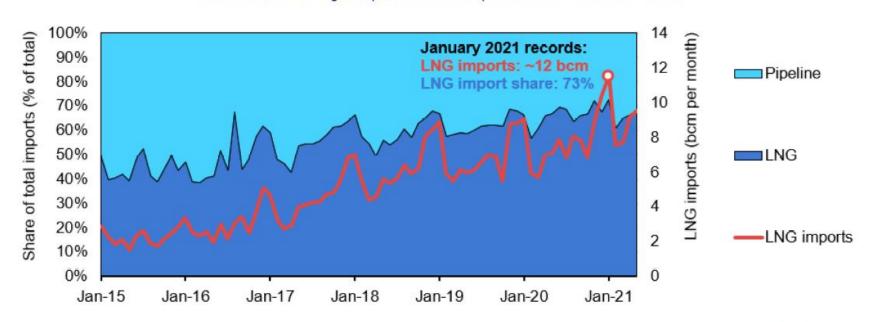
Source: GECF Secretariat based on data from the GECF GGM





CHINA

Share of LNG in total gas imports and LNG import volume in China, 2015-2021

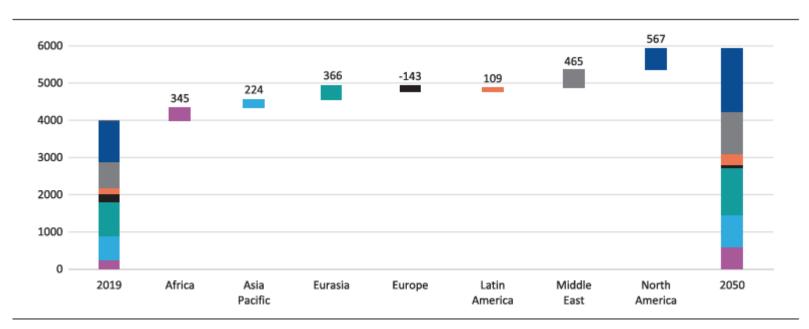


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Sources: IEA analysis based on China Customs (2021), Statistics; National Bureau of Statistics (2021), Monthly Data.



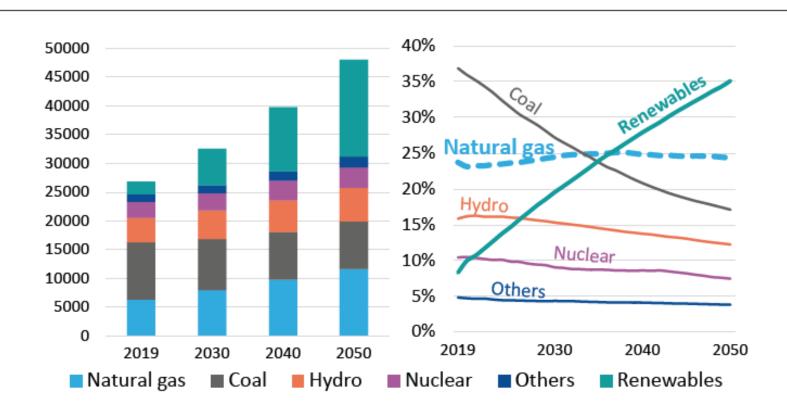
Outlook for regional change in natural gas production by 2050 (bcm)



Source: GECF Secretariat based on data from the GECF GGM 2020







Source: GECF Secretariat based on data from the GECF GGM

Note: Others include oil and bioenergy