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# Role of LNG in a low-carbon future

LNG Producer Consumer  
Conference 2021

**Steve Hill**  
EVP Shell Energy

LIQUEFIED NATURAL GAS

## Cautionary Note

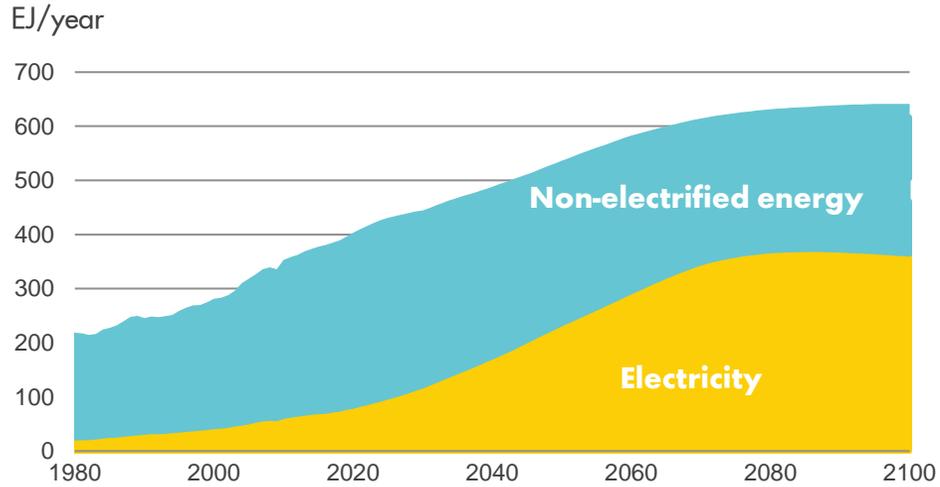
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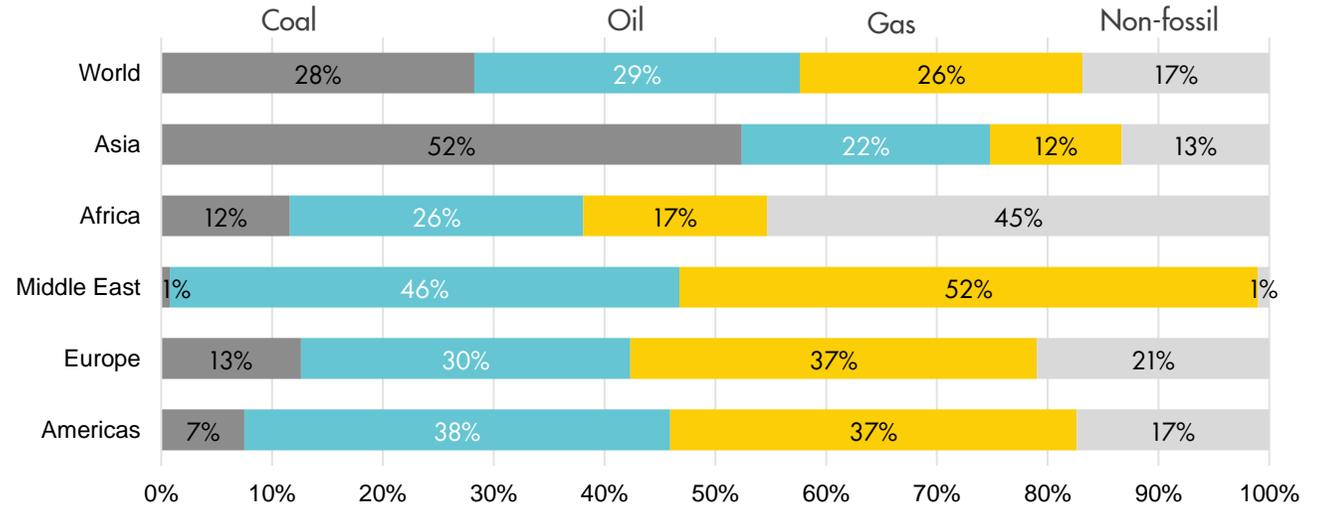
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# Gas and LNG to play a key role in the journey to net zero

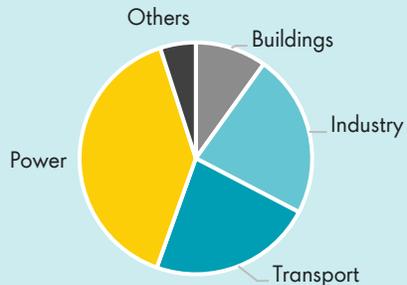
## Increasing role of electricity in the future energy mix



## Asia is more reliant on coal than any other region



## Global emissions by sector



## Benefits of coal-to-gas switching



**Natural gas emits ~ 45% lower GHG emissions than coal in electricity generation**



**Natural gas reduces ~ 33% emissions when providing heat**

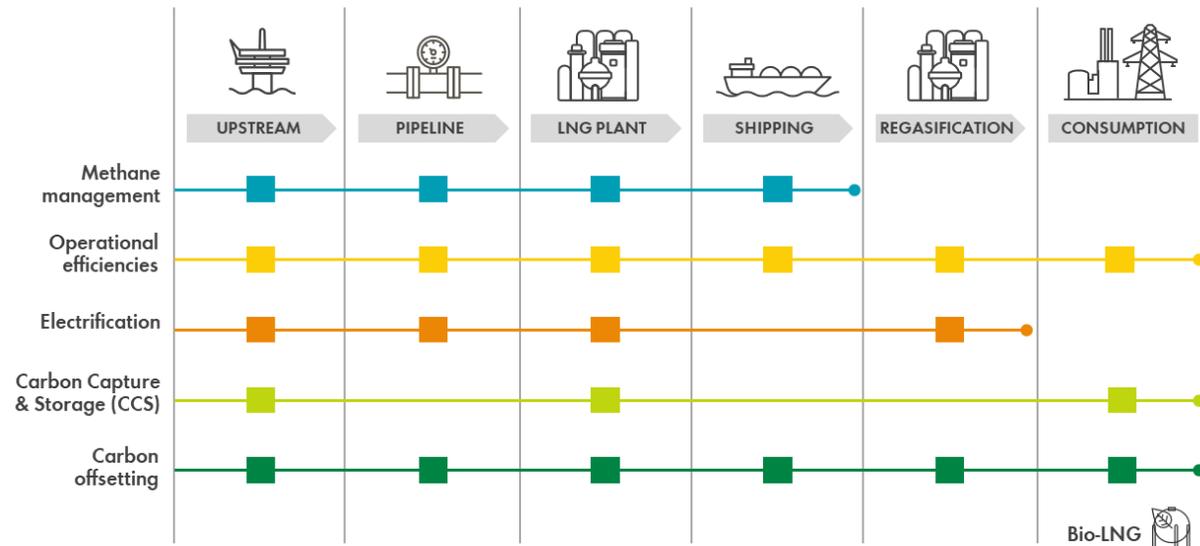


**Natural gas helps save ~ 36% CO<sub>2</sub> emissions for DRI steel production**

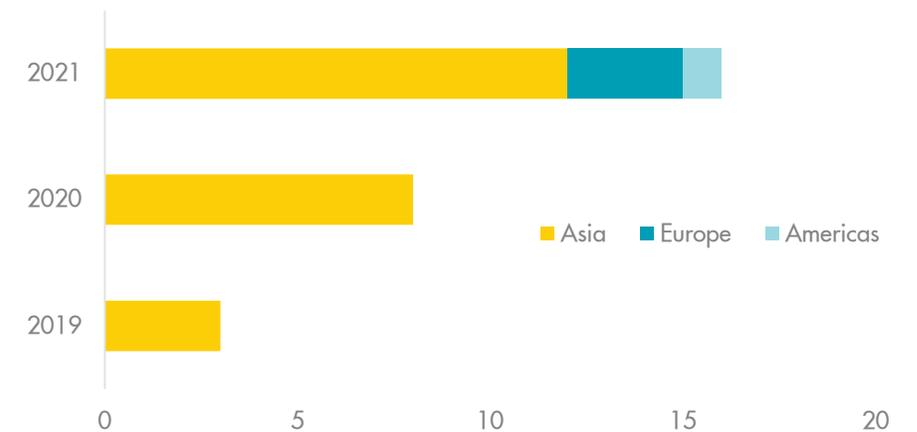
# Addressing emissions from gas & LNG

While technologies to avoid and reduce emissions develop at scale, offsetting LNG is happening now

## LNG value chain emissions and mitigation options



## Increase in LNG cargoes with carbon offsets

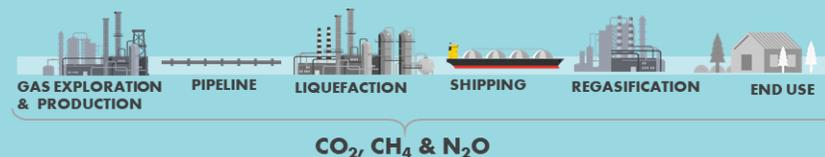


## What is needed to build the offer at scale

Need for standards to measure, monitor & report emissions from well to tank



Offsetting complete lifecycle GHG emissions from production to end combustion



Use of high-quality carbon credits



