

Market Reporting

Consulting

illuminating the markets

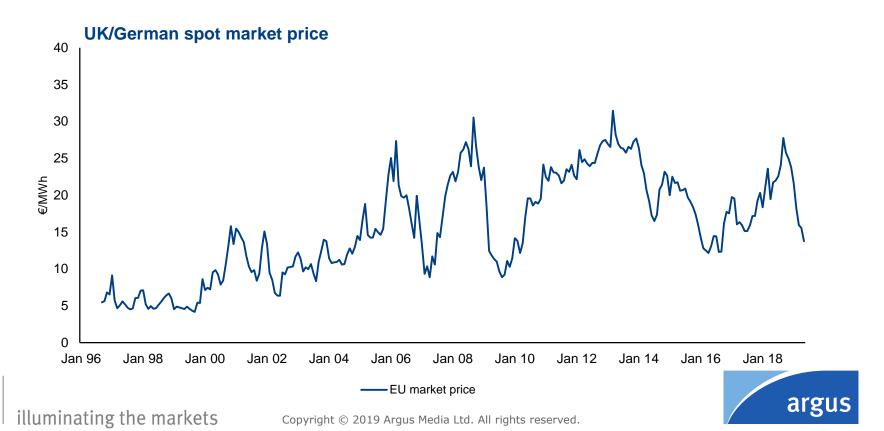
**Events** 

Kiev

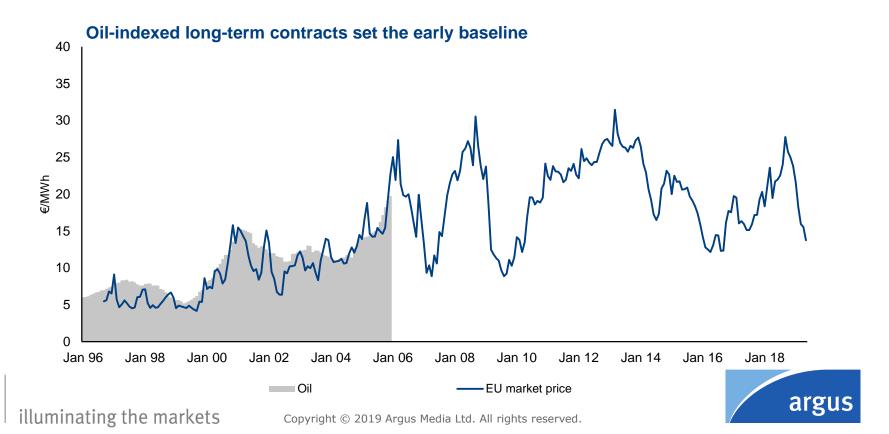
Riga

# The long view of European gas prices Three eras? Market Reporting Consulting illuminating the markets **Events**

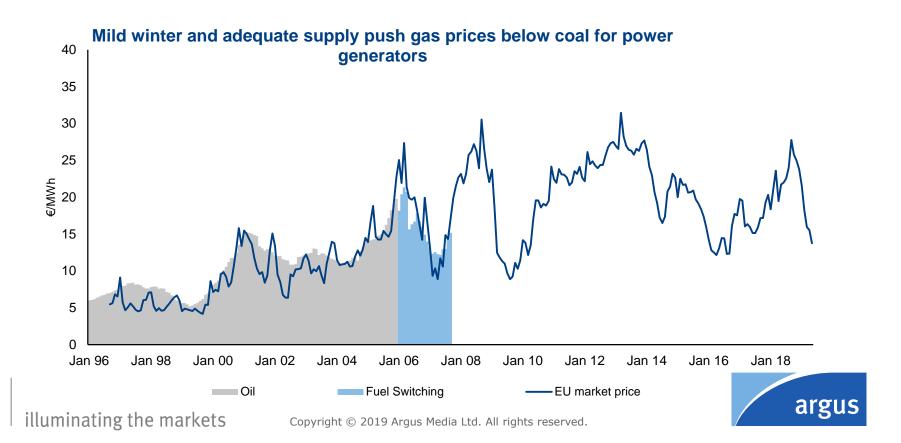
#### European gas market prices



# In the beginning: oil-indexation and seasonality



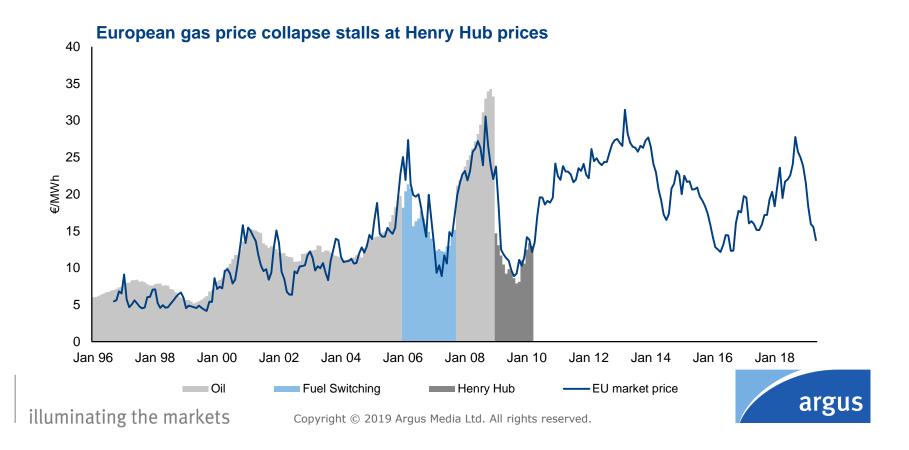
### 2007: gas and coal in competition



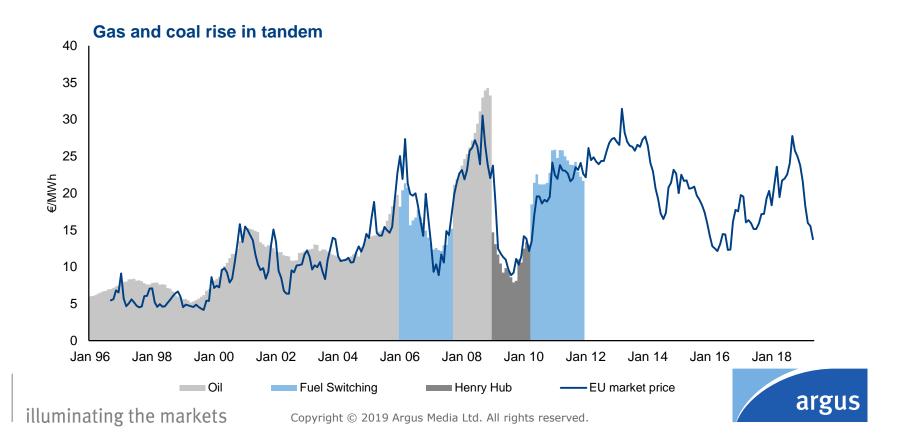
# 2008: everything up, then everything crashes



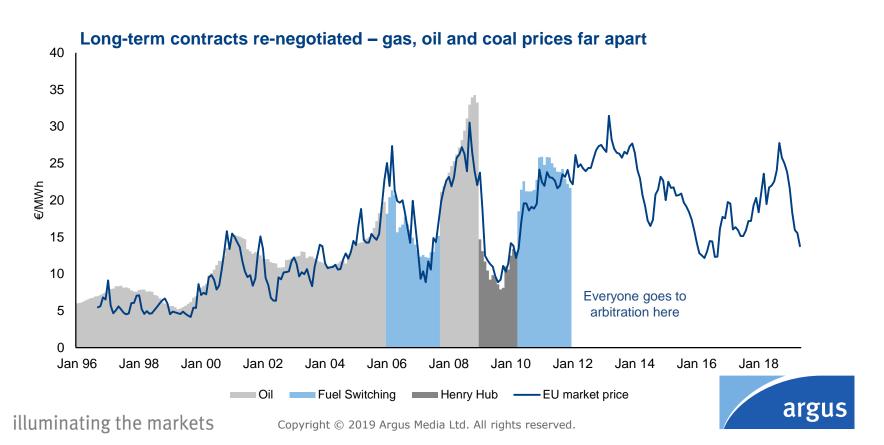
# Remember when the US imported LNG?



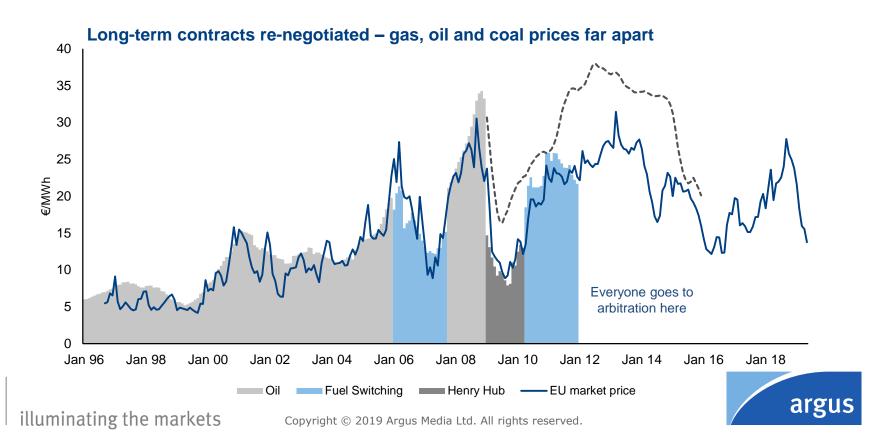
# More fuel price competition during the recovery



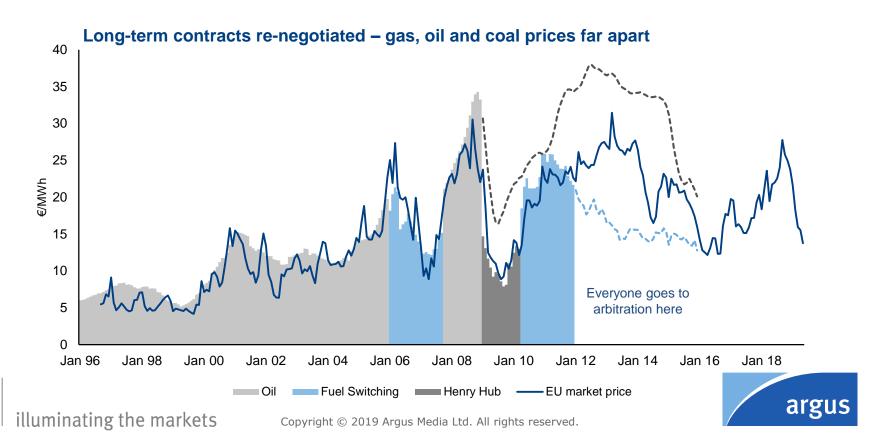
### Pricing mechanisms under pressure



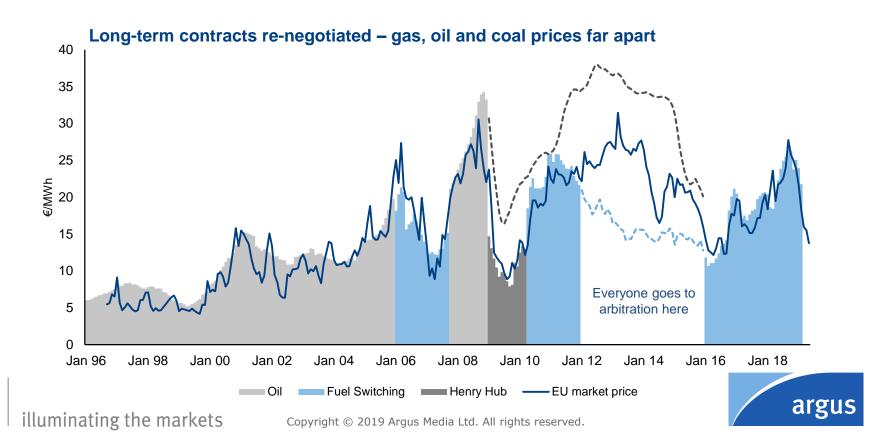
### Pricing mechanisms under pressure

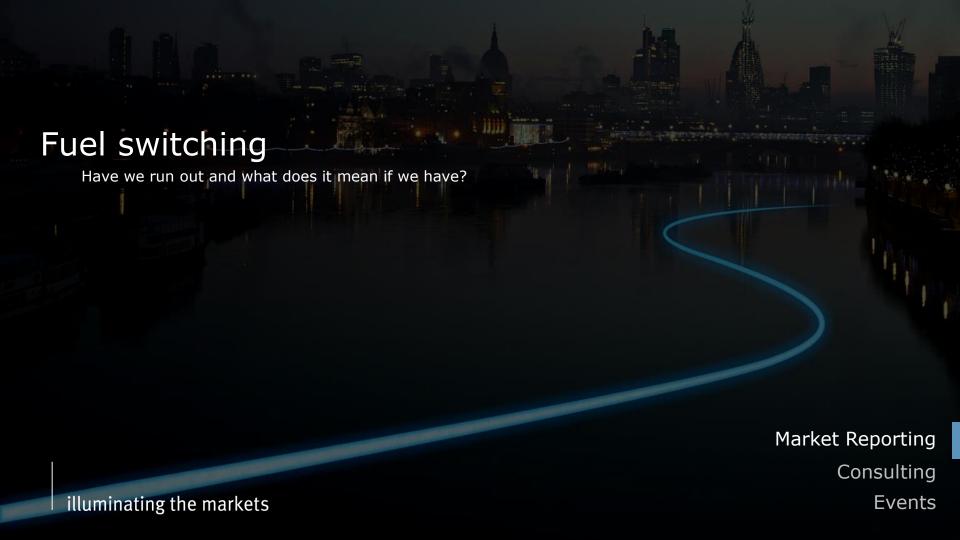


### Pricing mechanisms under pressure

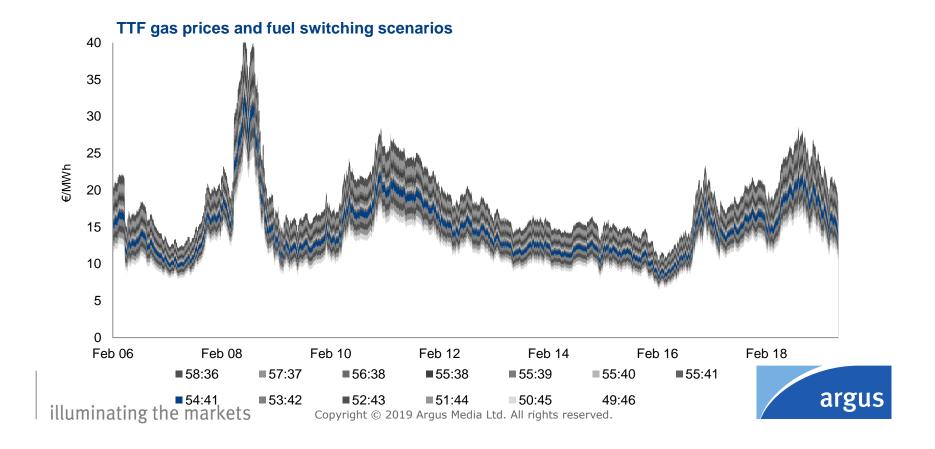


#### More competition between fuels

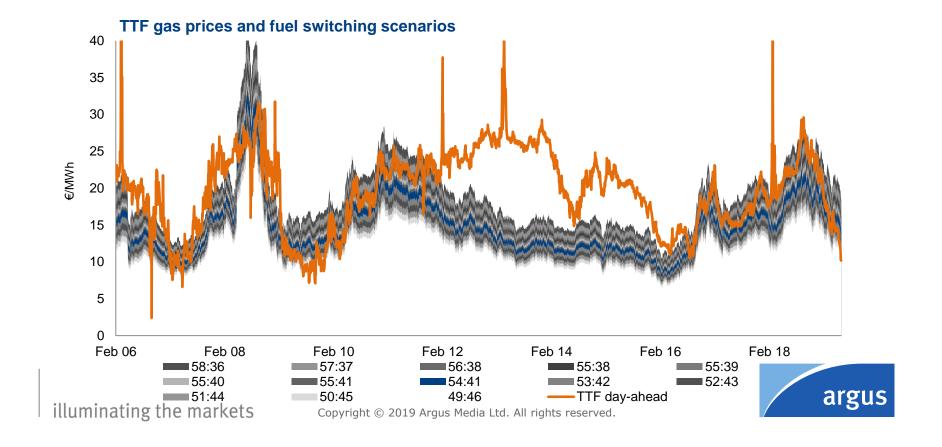




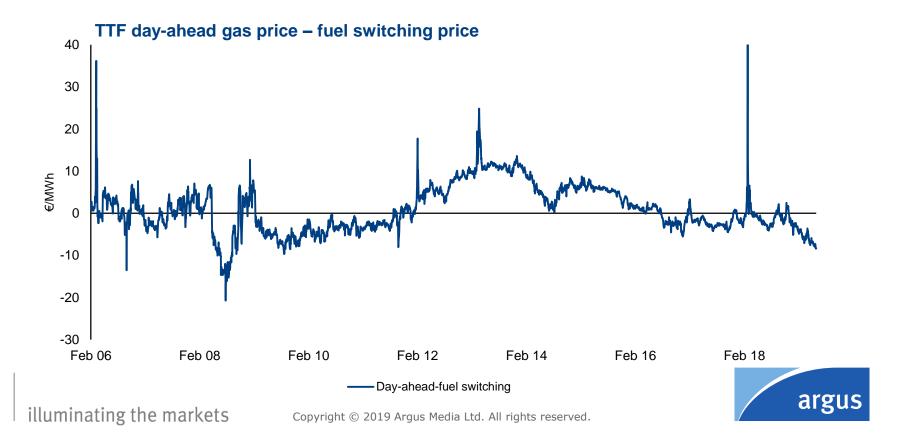
# Fuel switching scenarios



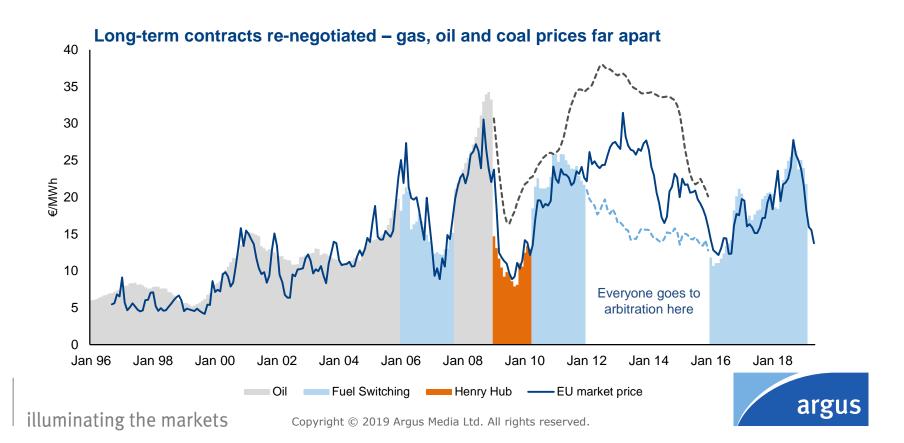
### Gas prices fall through fuel-switching support



# Spot gas prices near 10-year low against coal/CO2

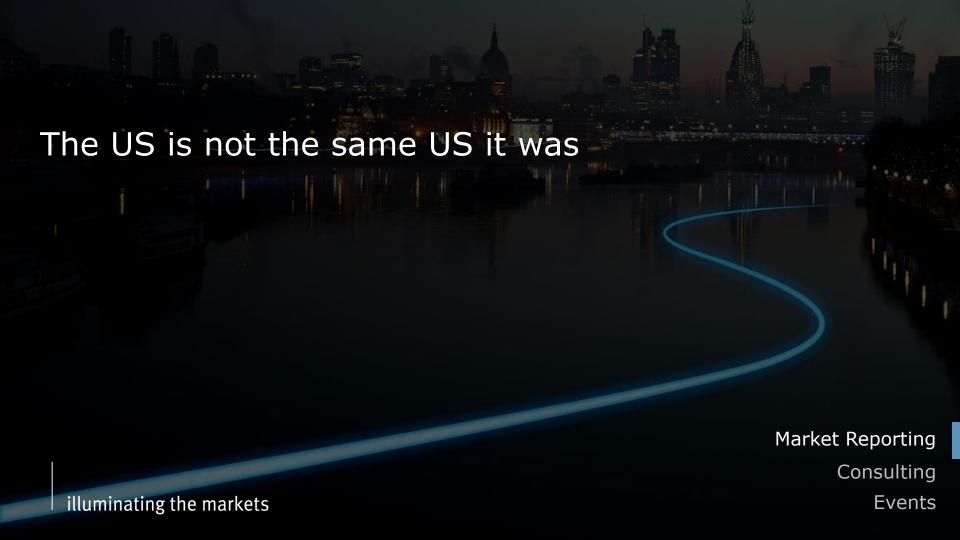


#### Remember 2009?

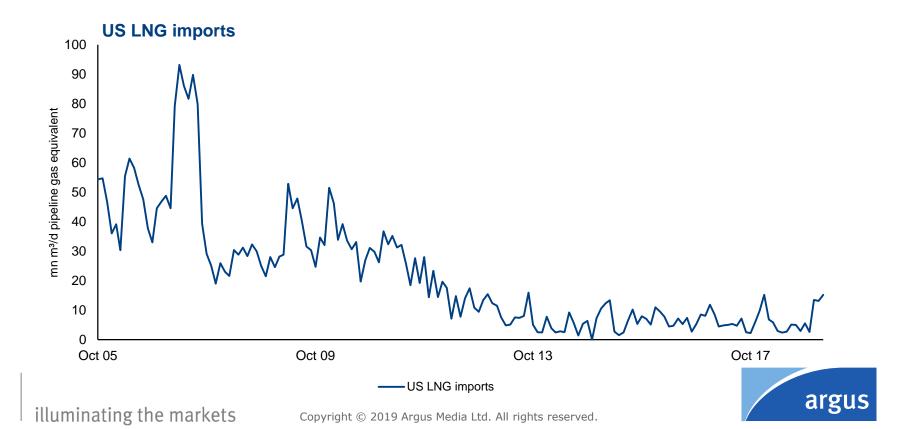




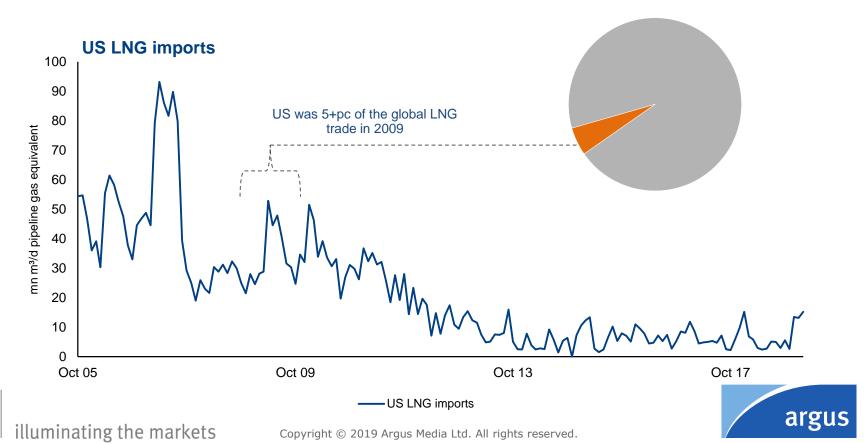


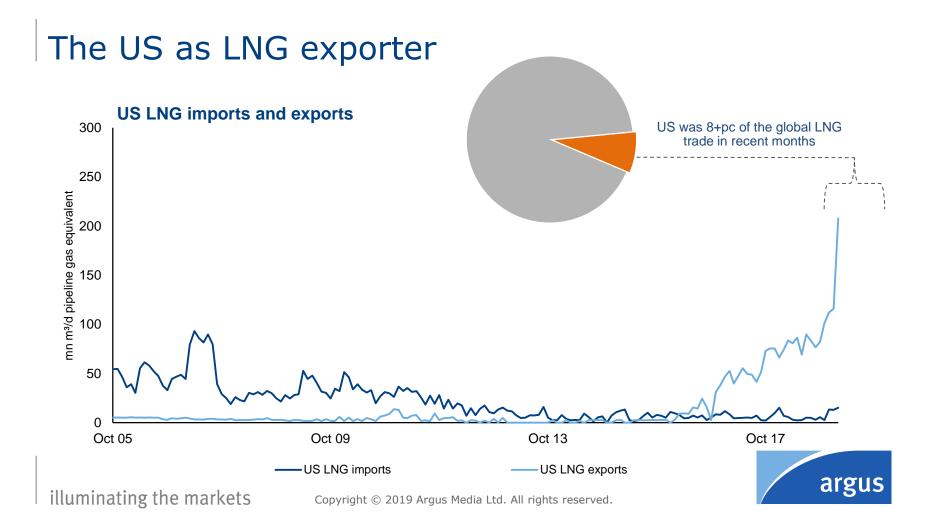


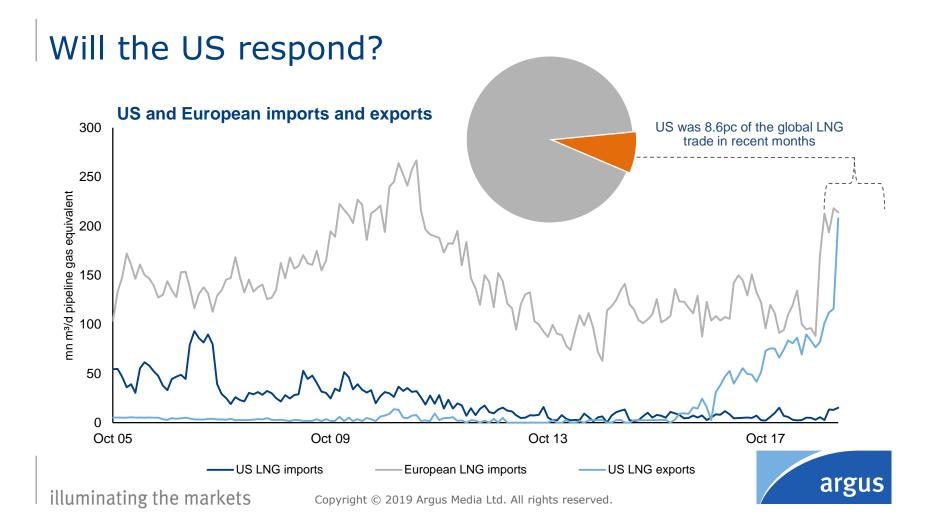
### The US was still a sizeable LNG importer in 2009



#### The US as LNG importer

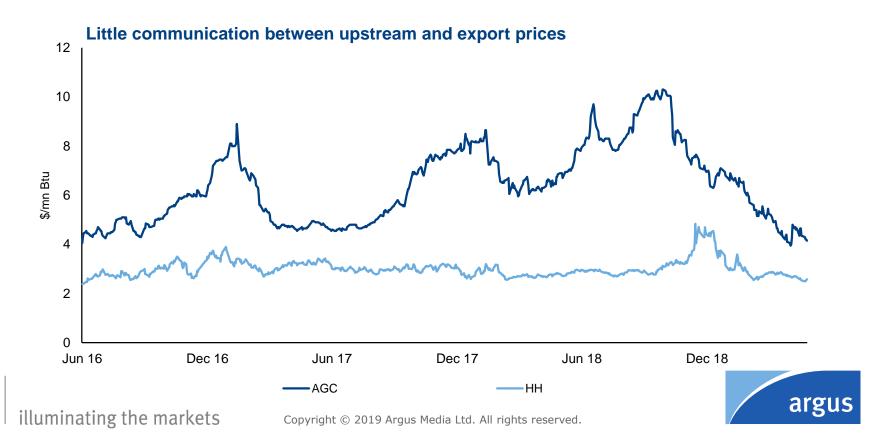




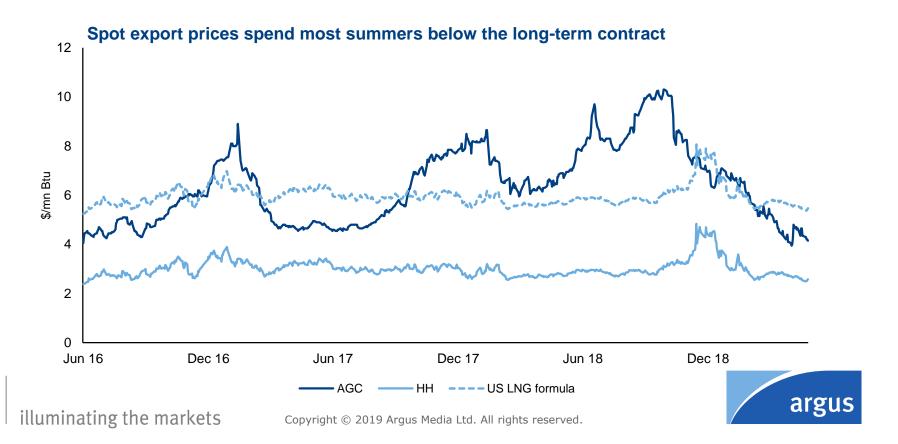


# Price formation in the US Gulf Is the US a price taker? Market Reporting Consulting illuminating the markets **Events**

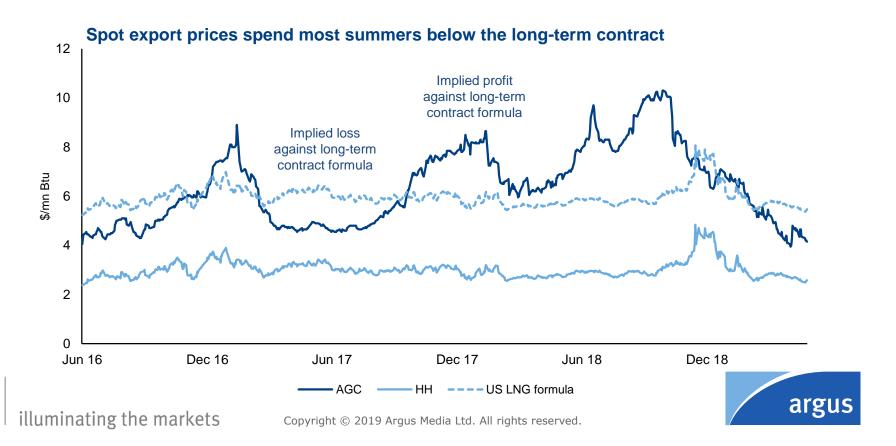
# US Gulf export prices show little Henry Hub link



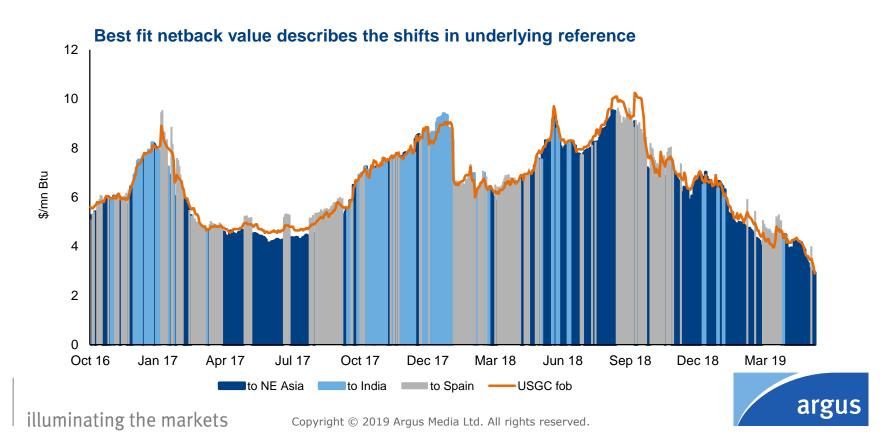
### and little direct connection to long-term LNG prices



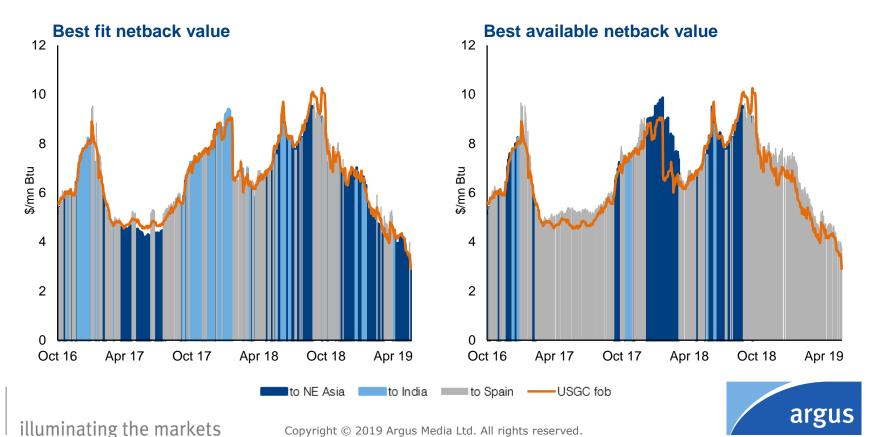
#### and little direct connection to long-term LNG prices



# Regional destination markets set the export price

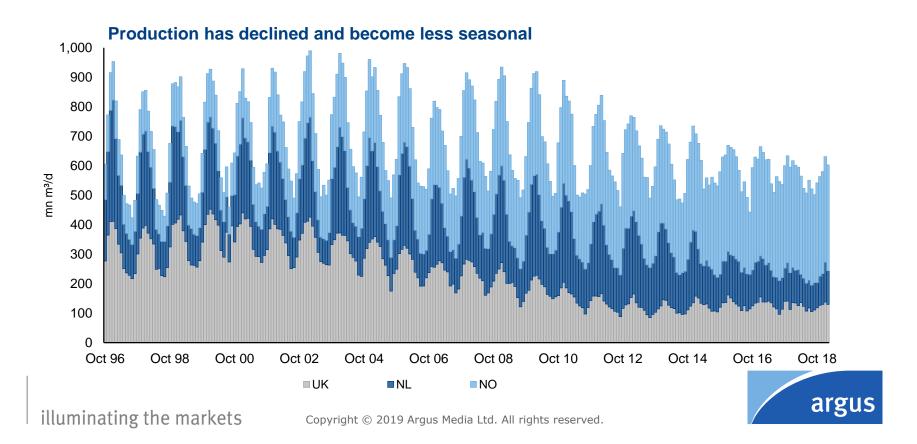


#### Regional destination markets set the export price

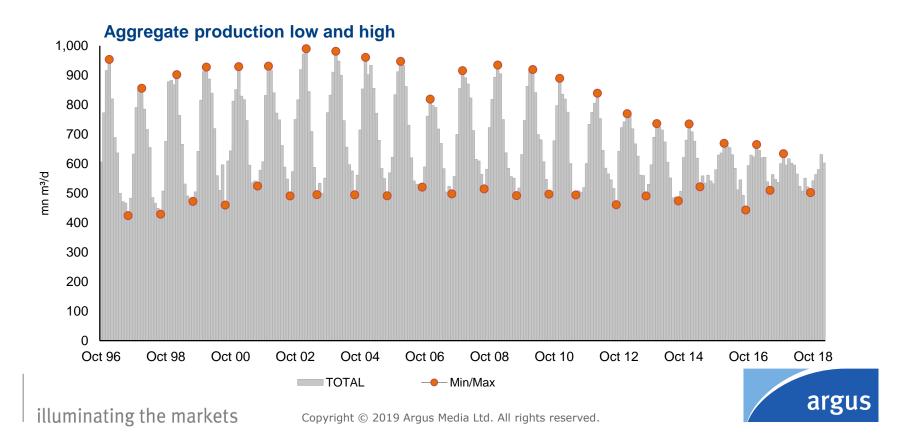




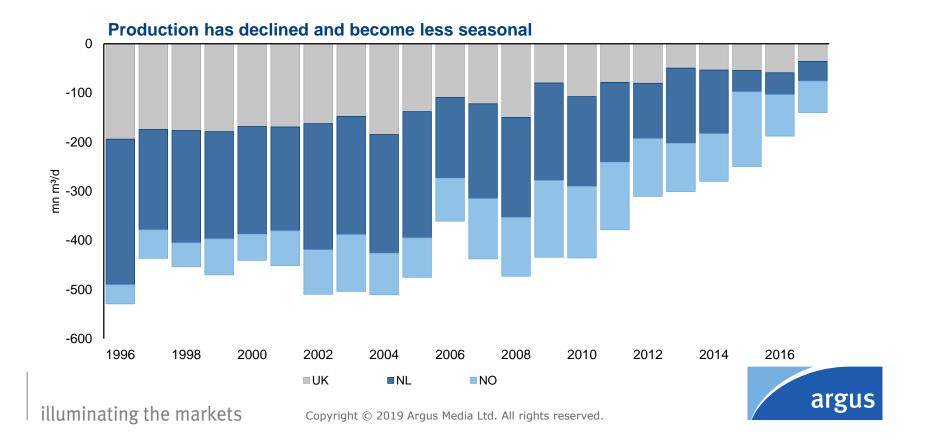
### UK, Dutch and Norwegian production



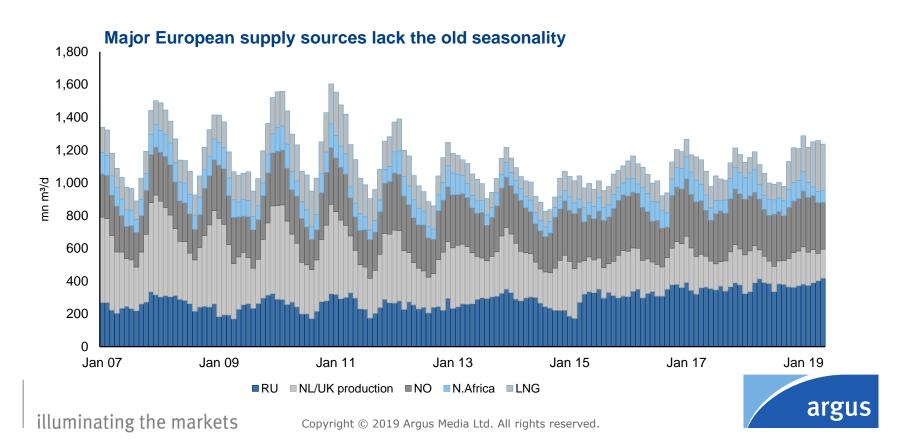
### Gas year production swing has declined



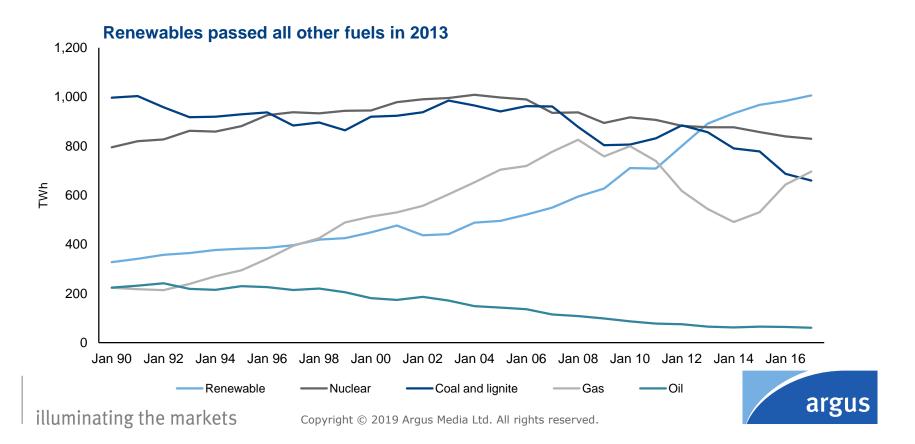
# Apparent flexibility falls sharply



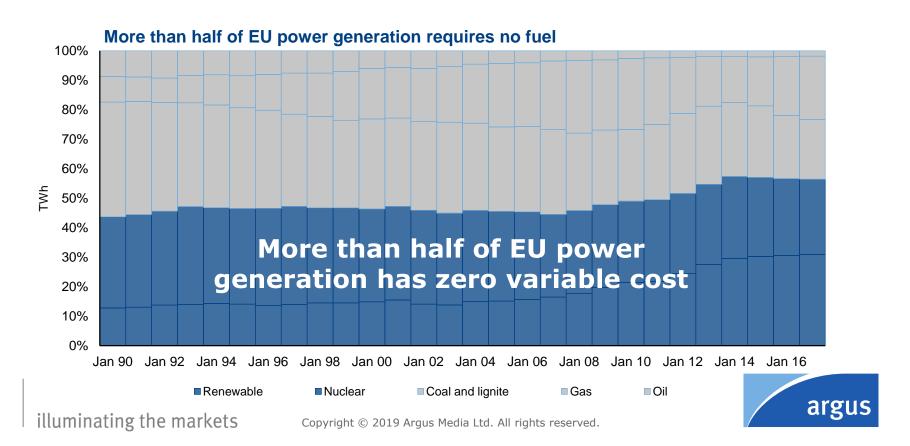
### Overall European supply has flattened too



### Renewables are the largest source of EU supply



# More electricity has no variable cost



# So what does all of this mean for prices? Two different approaches

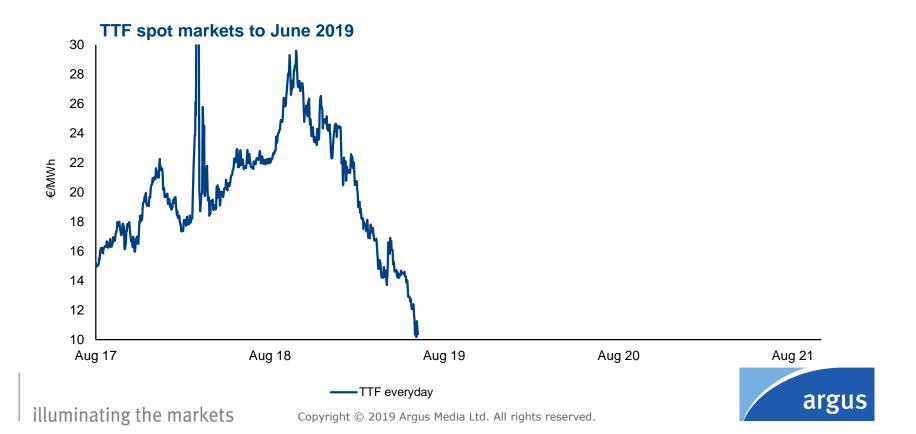
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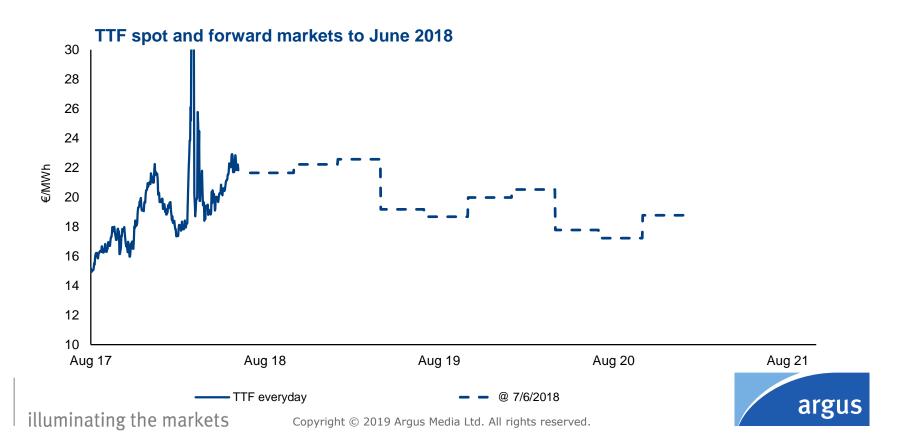
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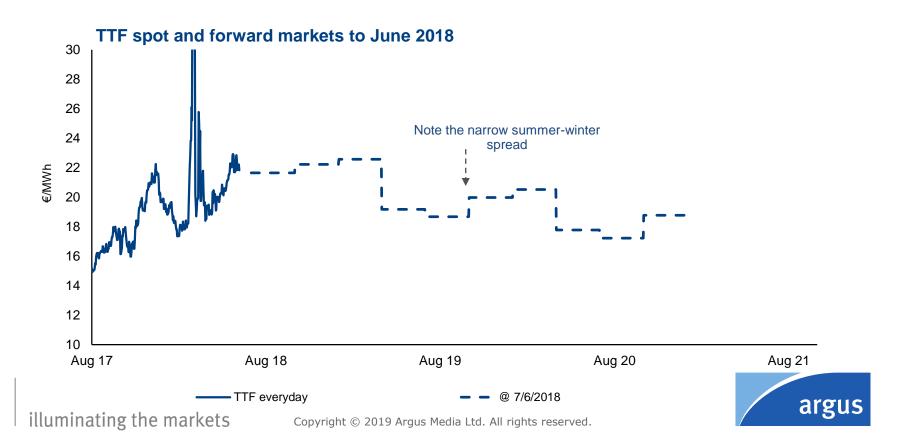
# TTF spot prices reach €10/MWh



# How did forward markets respond?



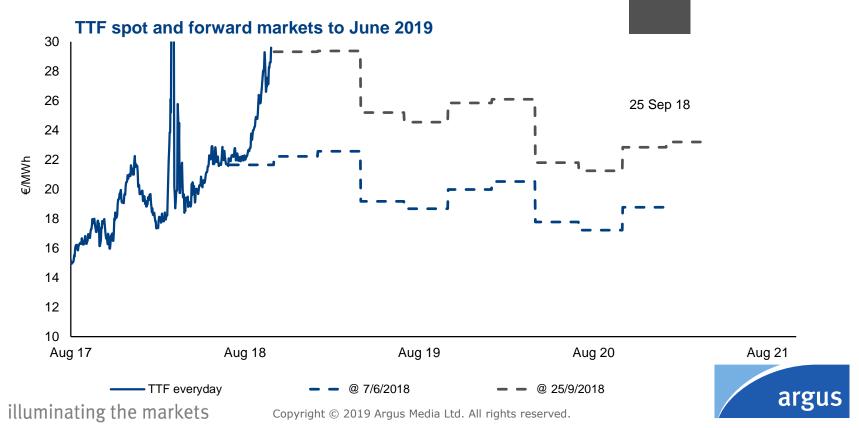
# How did forward markets respond?

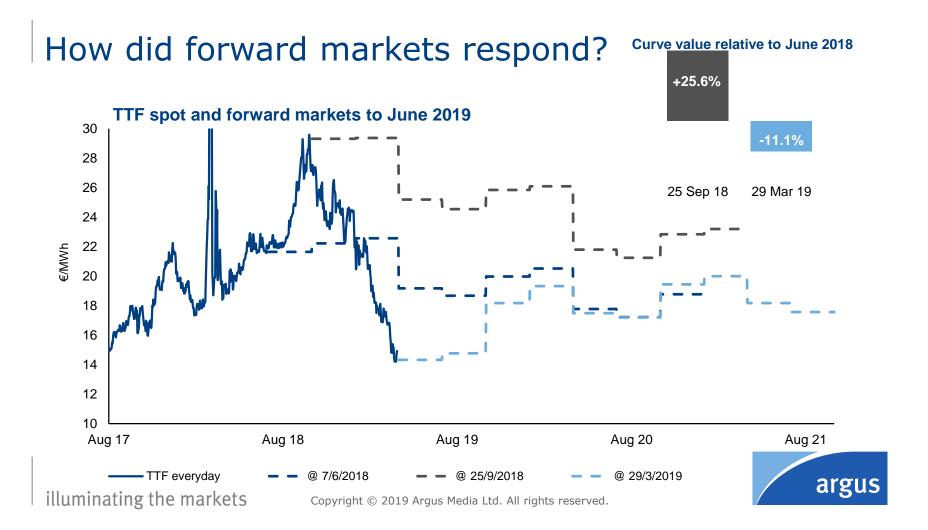


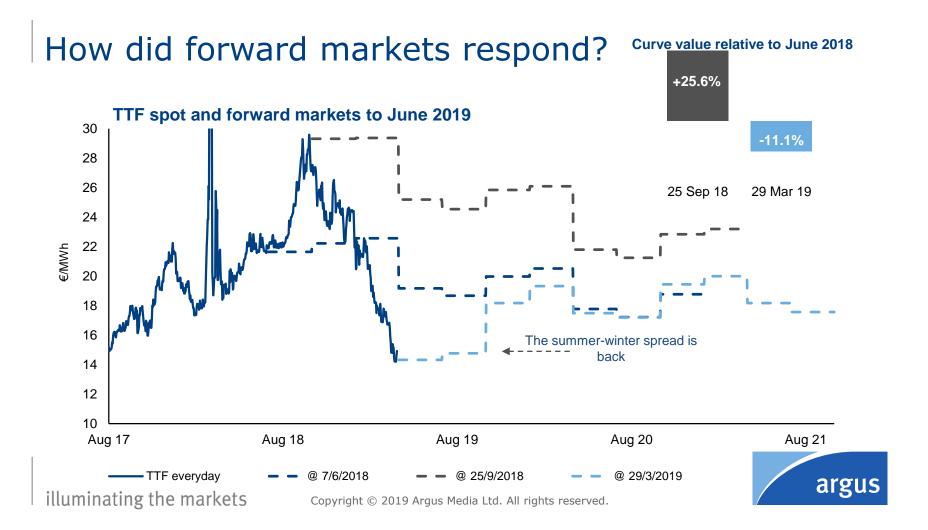


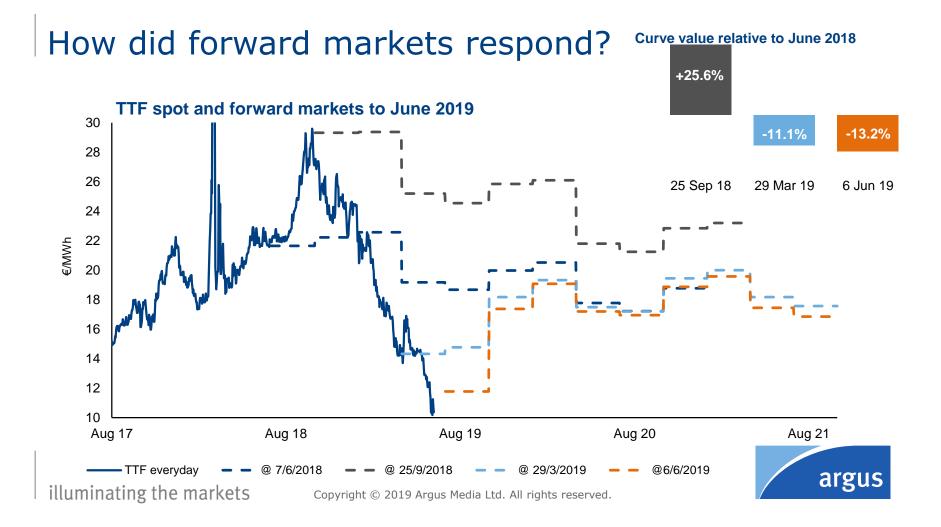
Curve value relative to June 2018



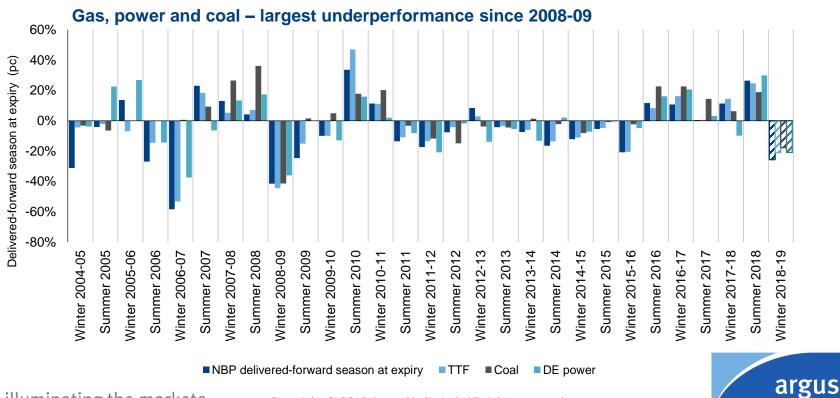








# Seasonal prices at delivery v at expiry



#### Can we value future market inflexibility?

