

# Probabilistic wind forecasts, a short-term power trading perspective



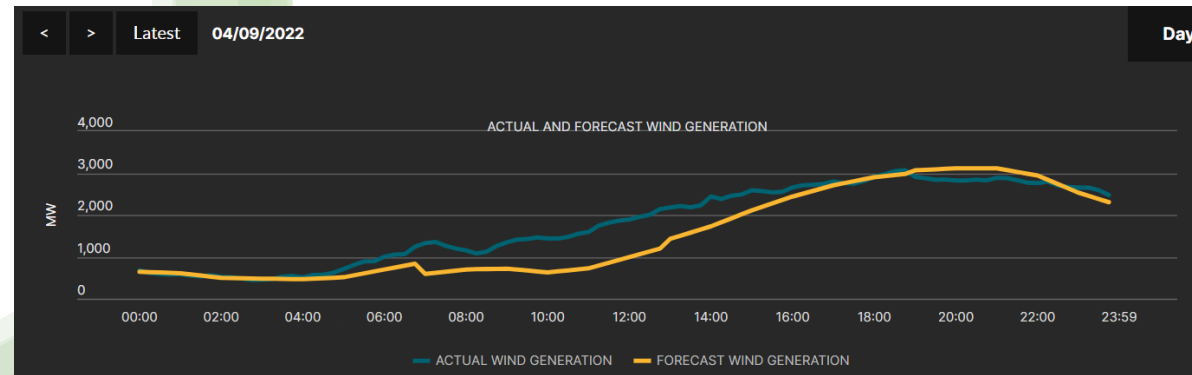
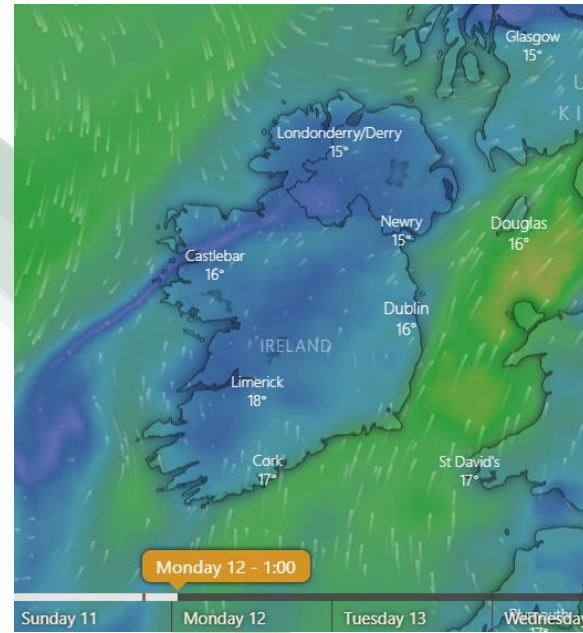
Simple world

Wind energy is the only thing to effect electricity price



**galánta**  
energy

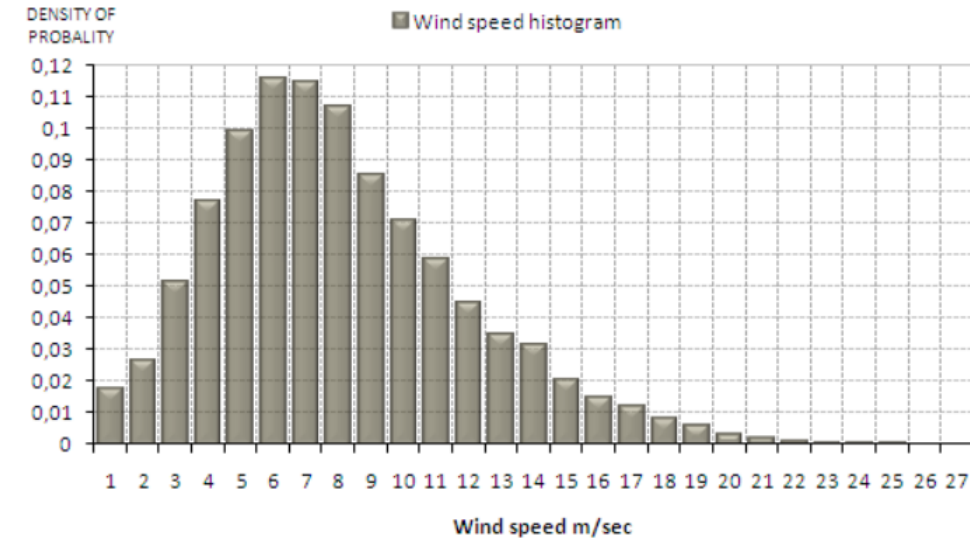
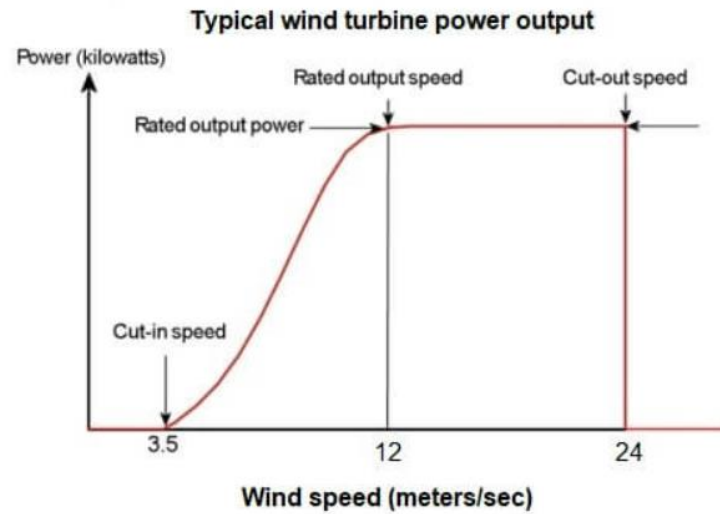
# The problem



Accuracy of wind forecasts is known to be worse at certain times

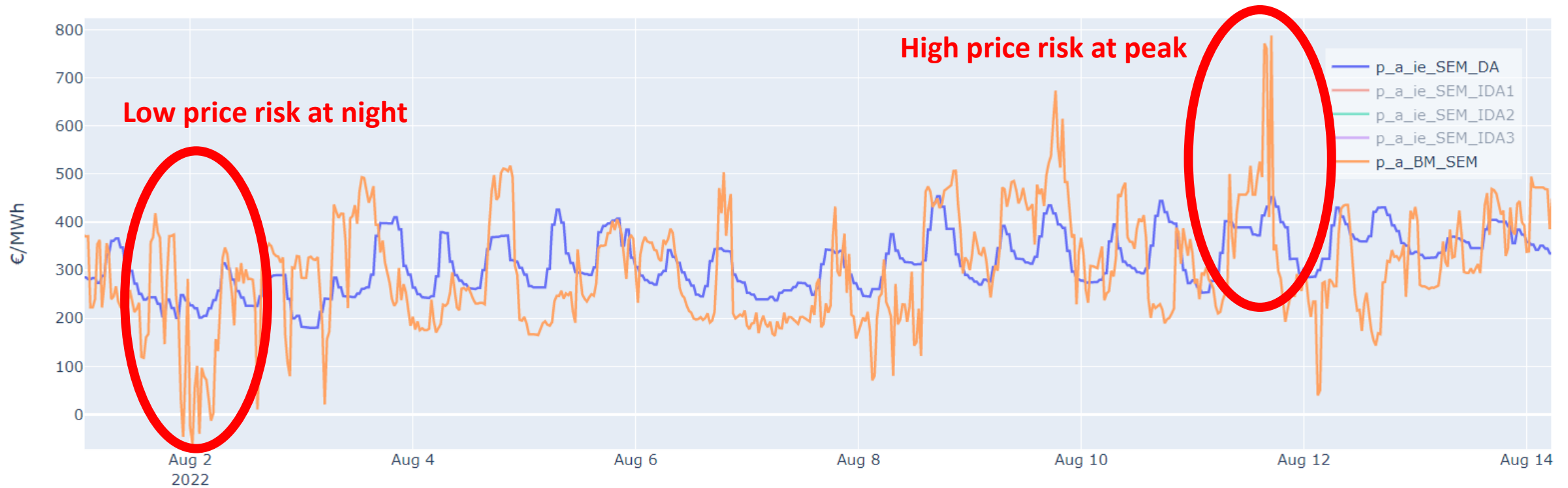
The problem

Wind speed to wind energy relationship is cubic most of the time.



# The problem

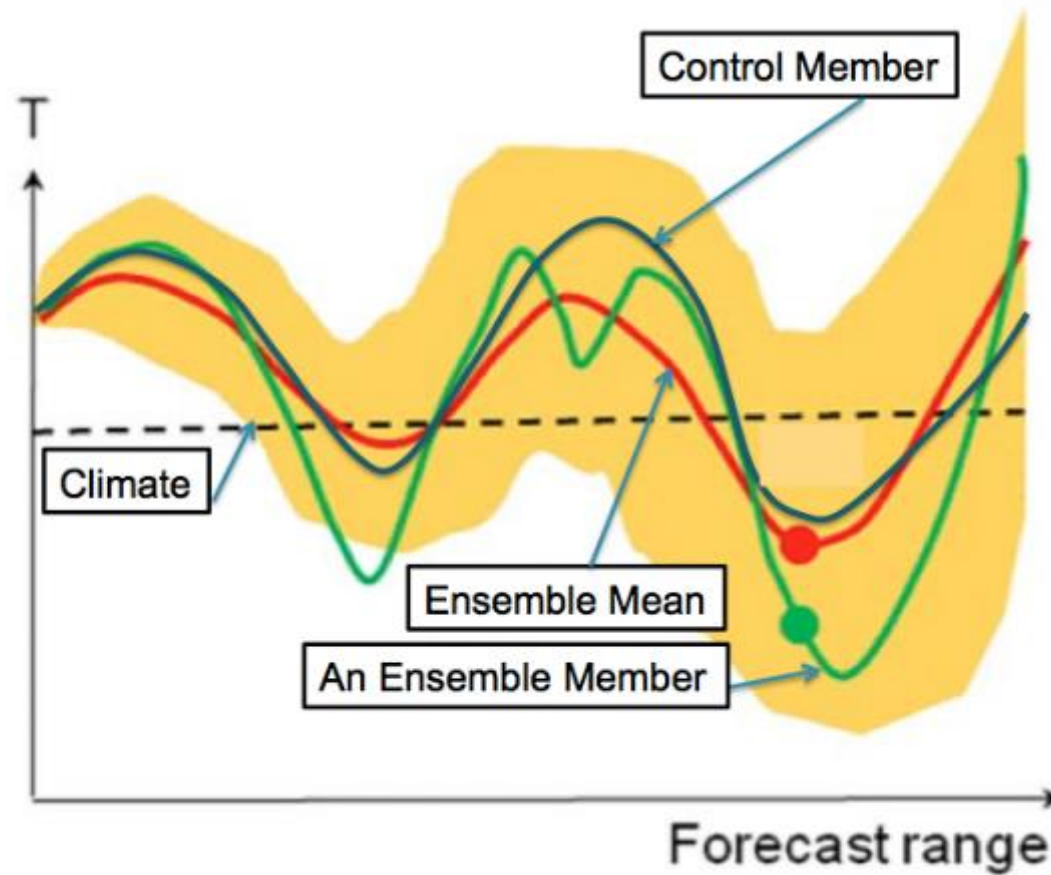
The imbalance volume to price spread relationship is not normal, practically at stressed times



The Data

Global Forecast System (GFS)

GFS Ensemble Forecast System (GEFS)



National Oceanic and Atmospheric Administration (NOAA)

National Centers for Environmental Prediction (NCEP)



The Result

Optimised trading  
Risk awareness  
Automation



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**Questions**