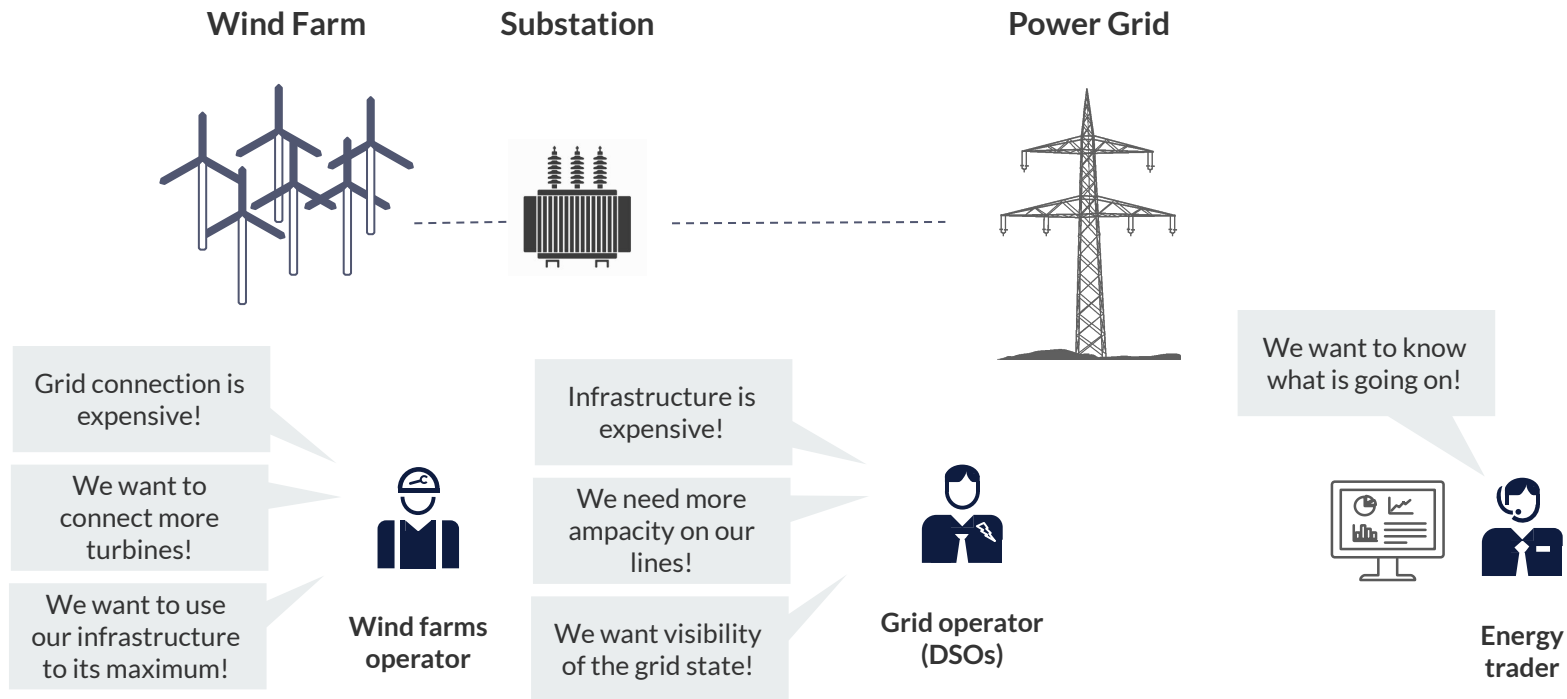


Greenlytics



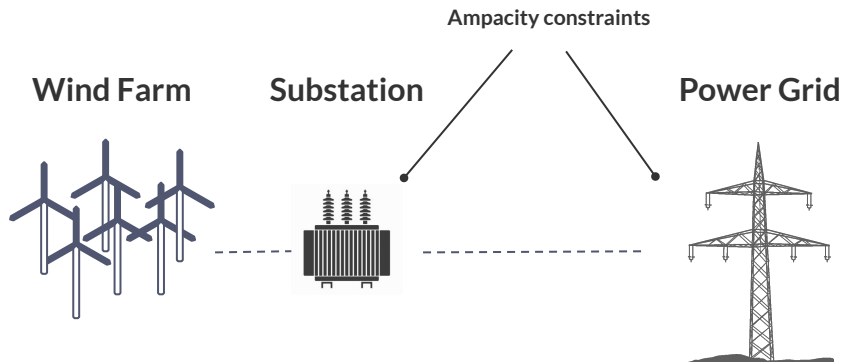
HEIMDALL
POWER

The Problem



The Status-quo

Line ampacity constraints are set using conservative calculations assuming zero wind speed and high temperatures and solar radiation conditions. This results in **redundantly high safety margins** for most hours of the year.



The Opportunity






More and more wind farms built in cold climate.

	Windy	Winter
Wind Power	Wind ↑ Wind power ↑	Air density ↑ Wind power ↑
Power Line	Wind ↑ Ampacity ↑	Temperature ↓ Ampacity ↑
Synergy	✓	✓

The Opportunity

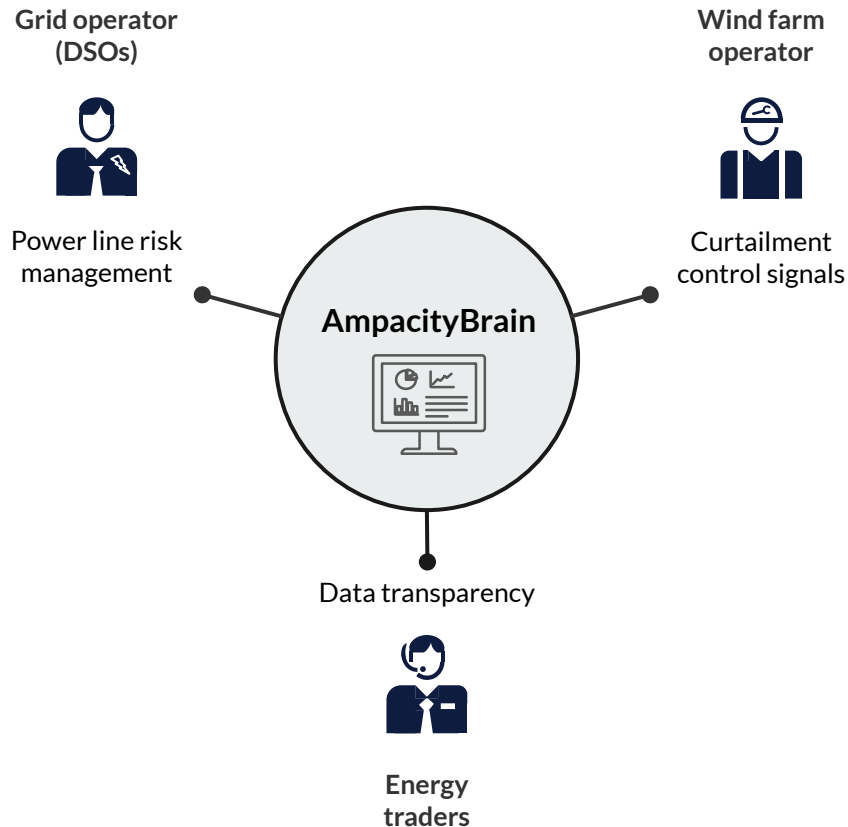


More and more wind farms built in cold climate.

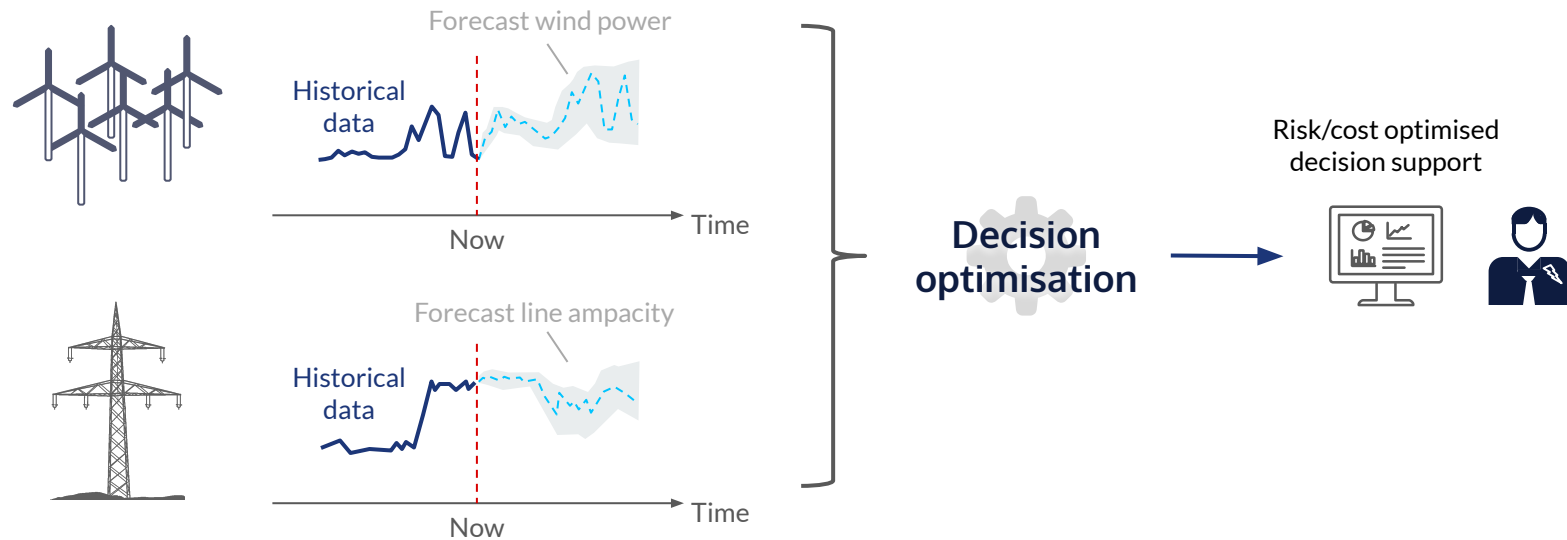
	Windy	Winter	Windy winter
Wind Power	Wind ↑ Wind power ↑	Air density ↑ Wind power ↑	Wind power ↑↑
Power Line	Wind ↑ Ampacity ↑	Temperature ↓ Ampacity ↑	Ampacity ↑↑
Synergy			

The Solution

Our solution, **AmpacityBrain**, is a cloud-based application which provides real-time information and forecasts of actual ampacity of power lines for all involved stakeholders. It helps DSOs to send curtailment signals to wind farm operators and gives traders the transparency they need in order to make accurately bid the available power.



The Solution



The Benefits

Using **AmpacityBrain** for dynamic line rating increases line ampacity by 20% on yearly basis compared to static line rating that is currently used today.

Grid operator (DSOs)



- Reduced need for capital investments
- Visibility of current grid status
- Safer power grid operations
- Reduction of maintenance needs

Wind farm operator





- Less wind power curtailment
- Lower need for capital investments
- Higher exploitation of wind farm permits
- Less wear on wind turbines

Energy traders



- Transparency into operations
- Being prepared for curtailment events
- Reduced imbalance costs in trading operations
- Less risk of market manipulation

The Ask

Are you a  Grid operator (DSO) or  Wind farm operator ?

Then we want to talk to you!



Questions?





Read more

greenlytics.io

heimdallpower.com

