

# Societal Challenge nr.3: Energy

**Big Data Focus area**: Real-time turbine monitoring stream processing and analytics

## BDE2020 domain partners:





**Selected Key Data assets:** European Energy Exchange Data, smart meter sensor data, gas/fuels market/price data, consumption statistics, stratigraphic model data (geology, geophysics)

#### Pilot 3:

Operation, maintenance and production forecasting for wind turbines on realtime sensor data.

#### Reasons:

- © Current technology is not able to deal with full amount of available valuable data
- © Economic benefit of predicting output and prevention of damage (if one can predict one part about to fail it can be prevented that other parts get damaged)
- Large continuous stream of sensor data, perfect to test our platform

### **BDE** infrastructure functionality:

- Large scale RDF reasoning over 3 billion+ triples via 4Store
- RESTful API via Puelia
- Various front ends

