

# Sub-seasonal to seasonal climate predictions for energy

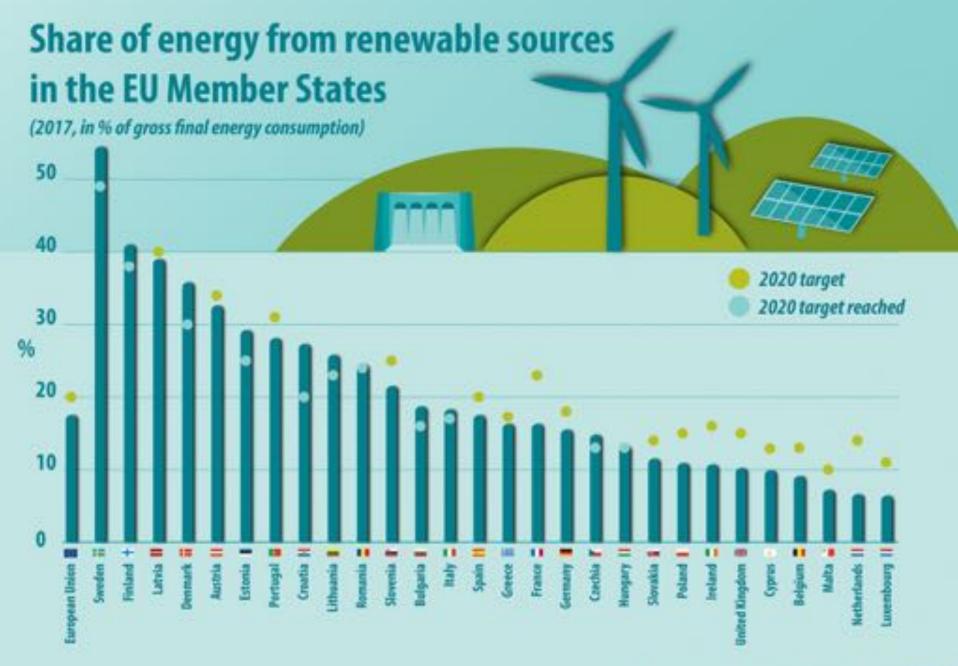
### Boosting renewables in the energy mix

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Barcelona Supercomputing Center

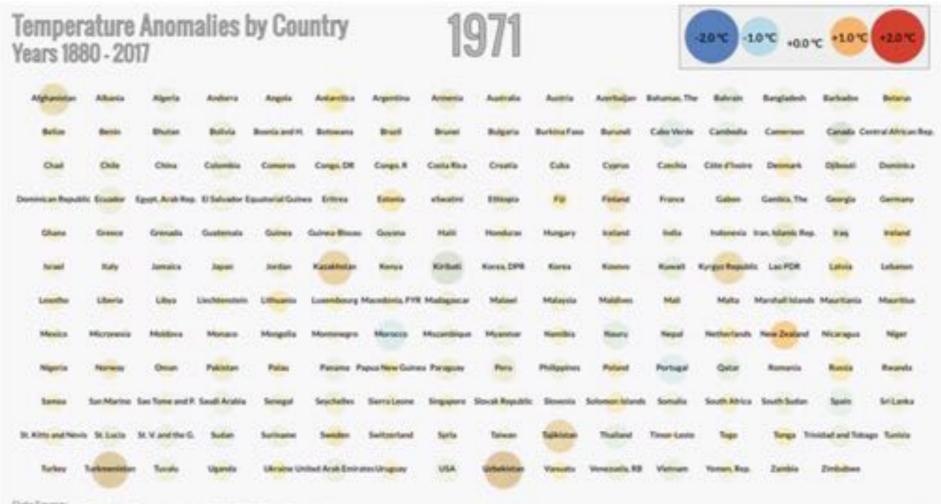


This project has received funding from the Horizon 2020 programme under grant agreement n 776787. The content of this presentation reflects only the author's view. The European Commission is not responsible for any use that may be made of the information it contains.





# ... and climate change too, but what about climate variability?



Data Source: 
NASA 005, SISTEMP Land-Outer Temperature Index 8,075, 69507x5, 1,000km ensuring 
Adjust Middle of months interpretation amounts. CESTO-Orbital part period (1951–1980)

Autorgan of months interpretation amounts.

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#### **Weather Forecast**

#### **Climate Predictions**

Multidecadal and Projections

Present-15d

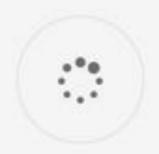
10 d-1 month

1 month-7 month

2-30 years

20-100 years

S2S4E project



#### WIND POWER

Wind speed and capacity factor predictions



#### **SOLAR POWER**

Solar radiation and capacity factor predictions



#### HYDROPOWER

Prediction and changes in inflow predictions

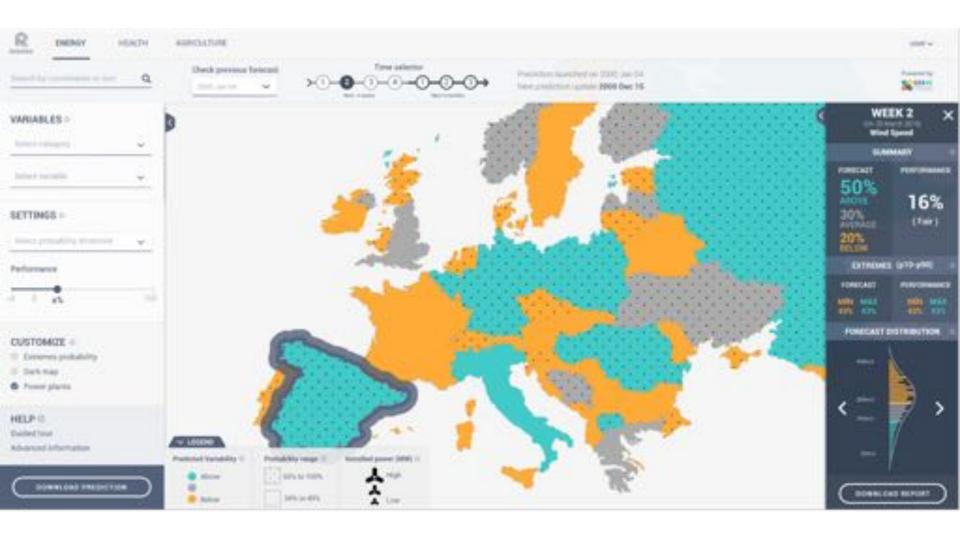


#### **ENERGY DEMAND**

Temperature and consumption rates predictions



## **Decision Support Tool**



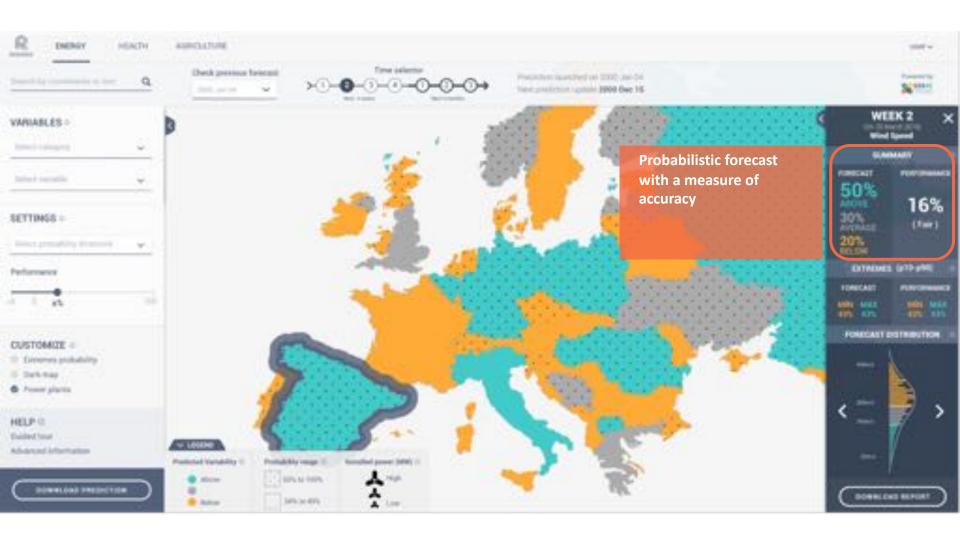










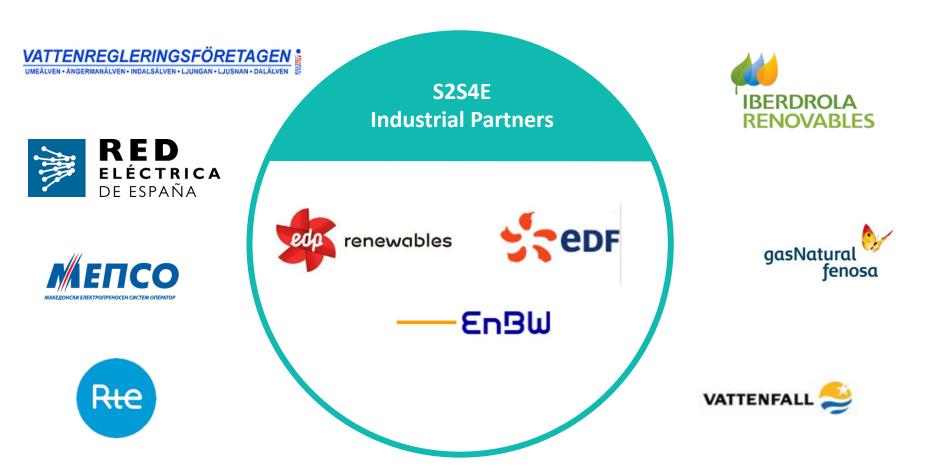








## **Co-Production with industrial partners...**



...and external stakeholders





Official EUSEW 2019 Side Event

### **DST LAUNCH EVENT**

Thursday, June 20<sup>th</sup>, 14:00h at Norway House, Brussels 5 minutes walk from Berlaymont



## Thank you

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Public reports will be available for download on our website: www.s2s4e.eu



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**@s2s4e** 



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