

Long Term Renewables Forecast



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Area: Germany
Client: xxx
Issued: 08:00 UTC 26.08.2016
Next update: 02.09.2016

Overview

During 27-29 Aug a low pressure is passing south of UK towards southern Scandinavia and the connected fronts are passing the area. The low pressure is followed by a high pressure passing during 30 Aug creating more stable conditions.

Week 1 (26.08-01.09)

Wind power:

Mainly production below normal, but 28-29 Aug temporarily above normal production with up to 13 GW peak production. The expected average production for the period is around 5 GW.

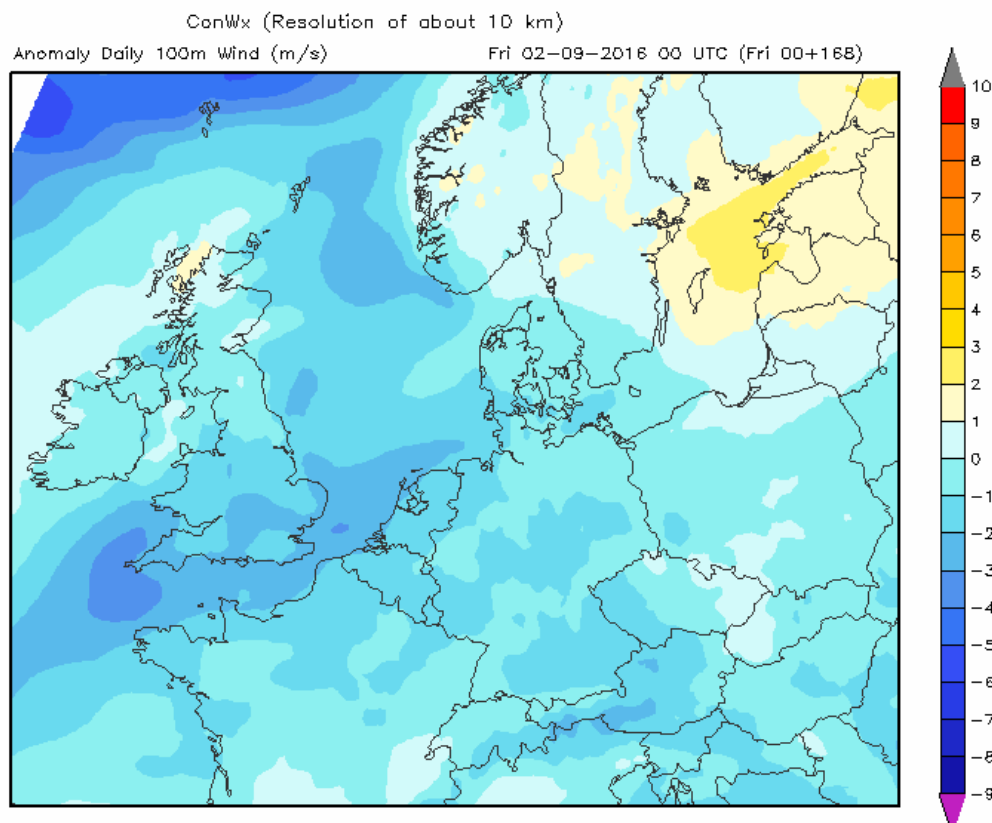


Figure: 7-day wind speed anomaly in 100 m [m/s]

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Solar power:

26-28 Aug high production with peak production values of 23-24 GW. On 29 Aug front passage and lower production, but from 30 Aug again higher production. On average significantly above normal production.

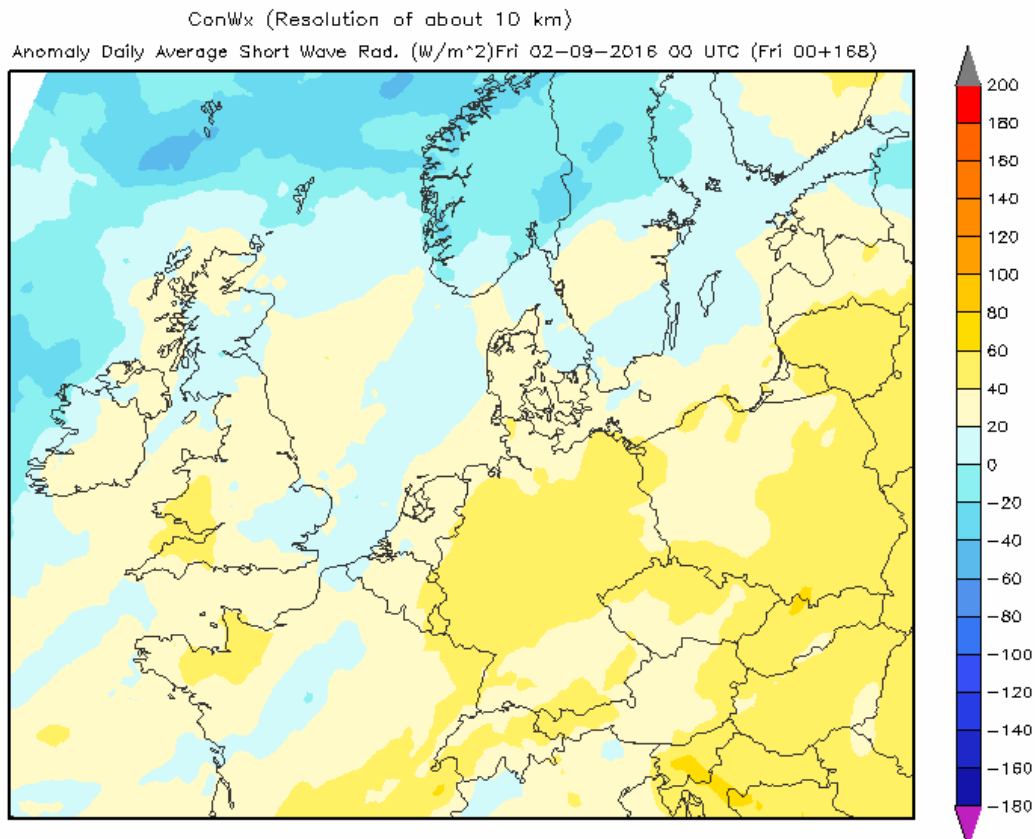


Figure: 7-day solar radiation anomaly [W/m²]

Hydropower:

First almost dry, but during 28-29 Aug passing front system and some precipitation in the northern part of Germany. 30-31 Aug almost dry, but from 1-2 Sep a front from west is passing the area with above normal precipitation amounts. On average for the period around 70% of normal.

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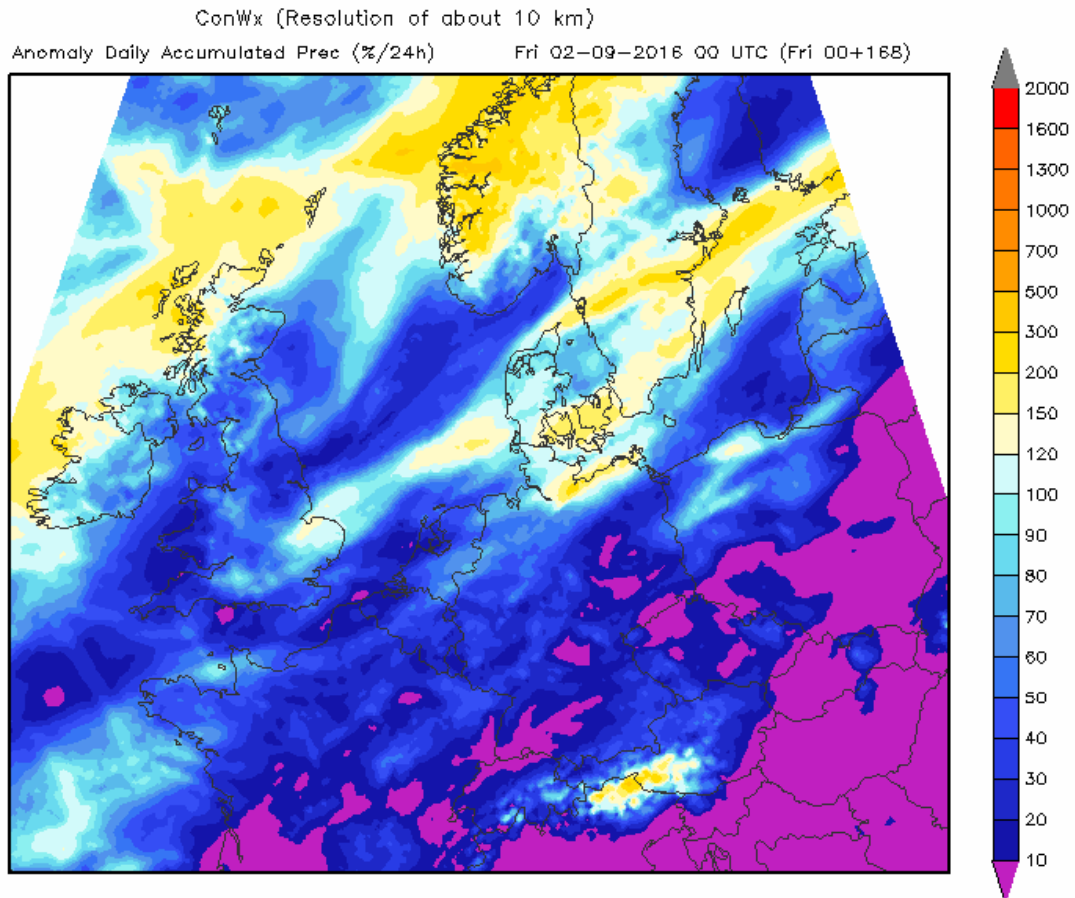


Figure: 7-day precipitation anomaly [% of normal]

Temperatures:

Until 28 Aug significantly above normal temperatures, locally 10 degrees above normal, but from 29 Aug colder air from northwest and on 30 Aug between normal and 3 degrees below normal temperatures. During 31 Aug warmer air from southwest and temperatures between 2 and 5 degrees above normal. On average for the period between 2 and 5 degrees above normal.

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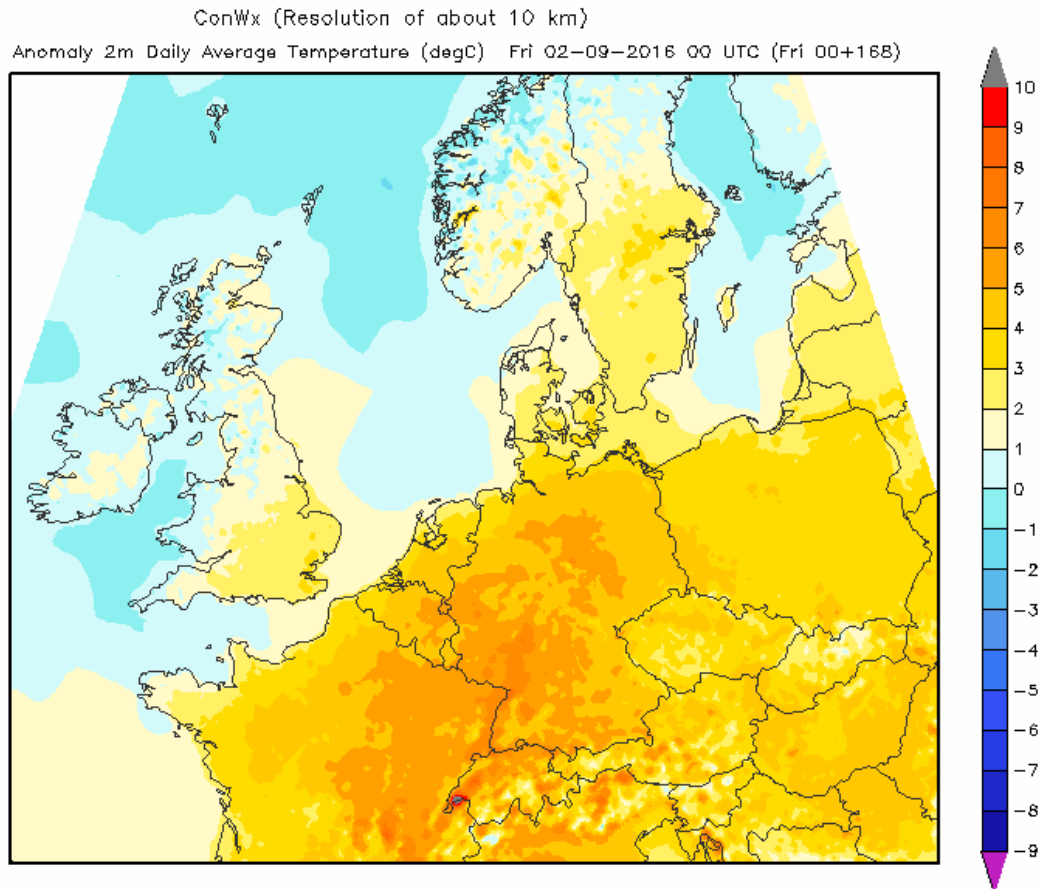


Figure: 7-day temperature anomaly in 2 meters [degrees Celsius]

Week 2 (02.08-08.09)

Wind power:

The first part of the period below normal production, but slowly increasing and towards the end of the period closer to normal. The expected average production for the period is 6-7 GW.

Solar power:

Mainly above normal production with production peaks between 20 and 24 GW, but from 7 Sep cloudier and production closer to normal. On average above normal production.

Hydropower:

Some showers, especially in the southern part of Germany, but on average for the period 70-80% of normal precipitation levels.

Temperatures:

Mainly warm for the period with an average of 1-3 degrees above normal.

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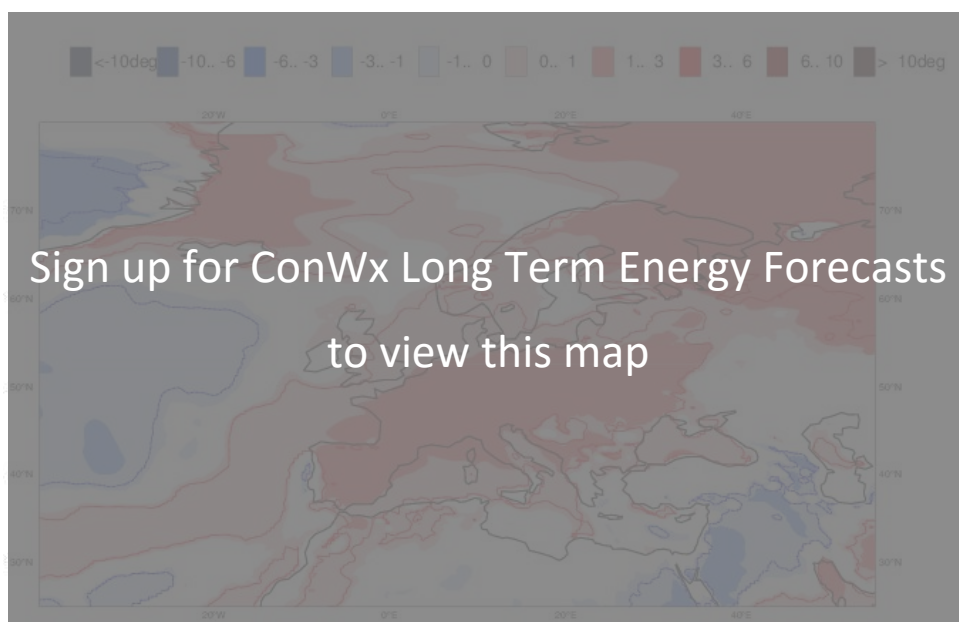
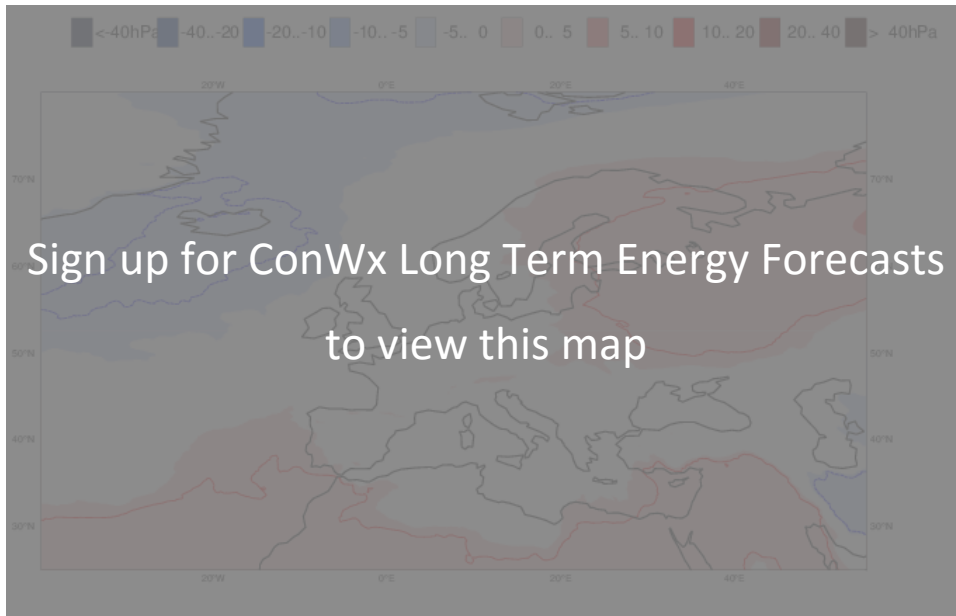


Figure: Pressure and temperature anomaly for week 2

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Week 3-4 (09.09-22.09)

Wind power:

Mainly below normal production for the period.

Solar power:

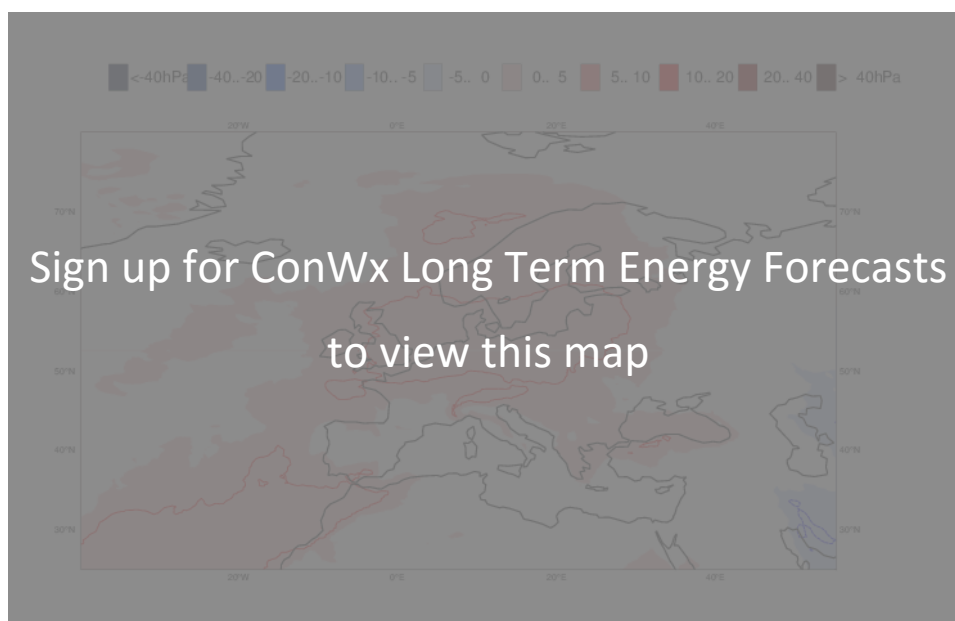
Above normal production, mainly in the first part of the period.

Hydropower:

Below normal precipitation levels, especially in the first part of the period.

Temperatures:

Mainly between normal and 3 degrees above normal for the period, warmest in the southern part.



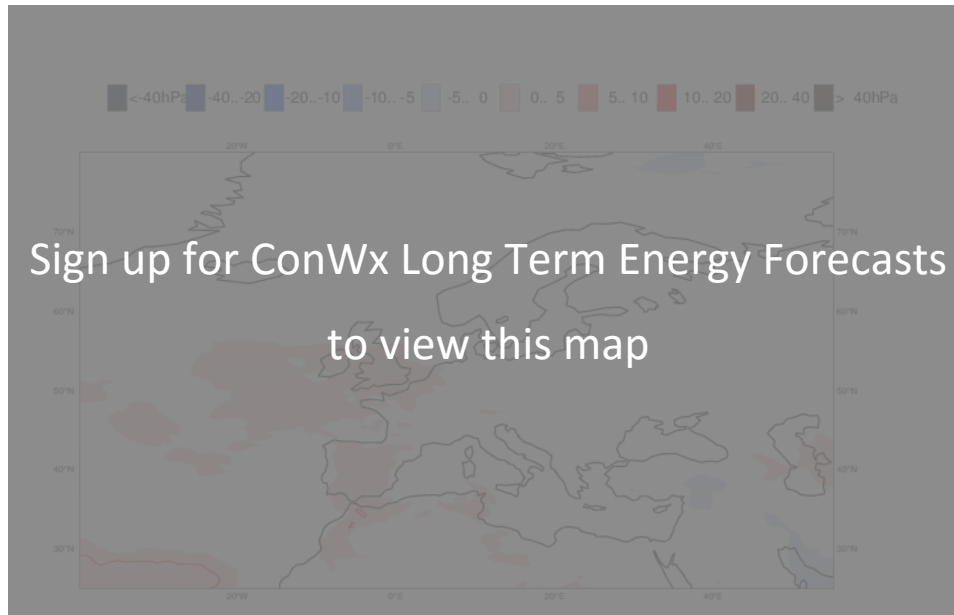


Figure: Pressure anomaly for week 3-4

3-month outlook

September: Slightly drier than normal with around 80% of normal precipitation amounts. Temperatures between normal and 2 degrees above normal.

October: Drier than normal with 60-70% of normal precipitation amounts. Expected precipitation at 80-90% of normal. Temperatures between normal and 2 degrees above normal.

November: Wetter than normal with 120% of normal precipitation amounts. Temperatures between 1 and 3 degrees above normal.

Uncertainty

The forecast has a high reliability until the end of the month, but thereafter there is some uncertainty regarding the level of high pressure influence for the first half of September. The signal is quite significant in the latest forecasts, but previous forecasts have shown a weaker high pressure influence which is the most likely alternative development.

On the 3-month outlook, the warmer than normal temperatures are seen in most models, but the precipitation forecast is increasingly uncertain and especially the wet signal in November has a significant alternative development indication a drier scenario.