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**To:** **ABC Solar Farm** **Atten:** **Operations Manager**

**Subject:** **Weather forecast for ABC Solar Farm (52.20N, 1.71W)**

**General Synopsis:** Friday starts with low pressure over the Norwegian Sea and high-pressure across the central north Atlantic and southern Europe. New Atlantic low brings fronts across the country from Monday.

**Warnings (next 24 hours):** **NIL**

## Summary

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|---|---|
| **Solar irradiance:** | Lows of 200-210 W/m$^2$ on Saturday, otherwise mainly peaks of 400-460 W/m$^2$ most day. |
| **Cloud cover:** | Cloud cover peaks on Saturday at 100% at times. |
| **Temperature:** | Peaks of 9-11° C most days. Temperatures are not expected to fall below zero. |
| **Precipitation:** | Rain at times from Saturday to Monday. |
| **Snow/Thunderstorm Risk:** | Mainly nil but low for thunderstorms on Saturday. |

## Forecast for 52.20N, 1.71W from 220600LT to 270600LT March 2024

| Valid At | Irradiance ($W/m^2$) | Cloud Cover (%) | Wind Dir. | Wind Speed | Wind Gust (m/s) | Temp. ° C | Humidity. % | Solar declination | Solar Zenith Angle | Weather | Snow Accum. | TS Risk | Confidence |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FRI 22/0600 | 50 | 50 | WSW | 4 | 6 | 10 | 75 | | | - | NIL | NIL | High |
| FRI 22/0900 | 300 | 45 | W | 5 | 7 | 10 | 77 | | | - | NIL | NIL | High |
| FRI 22/1200 | 400 | 40 | WNW | 6 | 9 | 11 | 78 | | | - | NIL | NIL | High |
| FRI 22/1500 | 450 | 45 | WNW | 6 | 9 | 10 | 80 | | | - | NIL | NIL | High |
| FRI 22/1800 | 200 | 30 | W | 5 | 7 | 9 | 81 | | | - | NIL | NIL | High |
| FRI 22/2100 | 30 | 25 | W | 5 | 7 | 6 | 83 | | | - | NIL | NIL | High |
| SAT 23/0000 | 0 | 40 | W | 5 | 7 | 4 | 85 | | | - | NIL | NIL | High |
| SAT 23/0300 | 0 | 50 | W | 6 | 9 | 4 | 84 | | | - | NIL | NIL | High |
| SAT 23/0600 | 50 | 45 | W | 6 | 9 | 4 | 83 | | | - | NIL | NIL | High |
| SAT 23/0900 | 150 | 60 | W | 9 | 13 | 7 | 82 | | | - | NIL | NIL | High |
| SAT 23/1200 | 200 | 80 | WNW | 9 | 13 | 8 | 81 | | | RAIN | NIL | LOW | Med |
| SAT 23/1500 | 210 | 95 | W | 8 | 12 | 9 | 83 | | | RAIN | NIL | LOW | Med |
| SAT 23/1800 | 190 | 100 | W | 7 | 10 | 7 | 84 | | | RAIN | NIL | NIL | Med |
| SAT 23/2100 | 25 | 95 | W | 7 | 10 | 6 | 88 | | | RAIN | NIL | NIL | Med |
| SUN 24/0000 | 0 | 80 | W | 7 | 10 | 6 | 90 | | | - | NIL | NIL | Med |
| SUN 24/0300 | 0 | 65 | W | 7 | 10 | 6 | 89 | | | - | NIL | NIL | Med |
| SUN 24/0600 | 50 | 50 | W | 6 | 9 | 5 | 88 | | | - | NIL | NIL | Med |
| SUN 24/0900 | 250 | 45 | W | 8 | 12 | 8 | 88 | | | - | NIL | NIL | Med |
| SUN 24/1200 | 400 | 30 | WNW | 8 | 12 | 10 | 87 | | | - | NIL | NIL | Med |
| SUN 24/1500 | 460 | 70 | WNW | 6 | 9 | 11 | 90 | | | - | NIL | NIL | Med |
| SUN 24/1800 | 220 | 90 | WNW | 2 | 3 | 8 | 91 | | | RAIN | NIL | NIL | Med |
| SUN 24/2100 | 30 | 90 | WSW | 1 | 1 | 5 | 92 | | | RAIN | NIL | NIL | Med |
| MON 25/0000 | 0 | 70 | SSE | 2 | 3 | 1 | 93 | | | - | NIL | NIL | Med |
| MON 25/0300 | 0 | 40 | SSE | 3 | 4 | 4 | 93 | | | - | NIL | NIL | Med |
| MON 25/0600 | 55 | 55 | SSE | 4 | 6 | 5 | 94 | | | - | NIL | NIL | Med |
| MON 25/0900 | 280 | 75 | SSE | 5 | 7 | 6 | 94 | | | RAIN | NIL | NIL | Med |
| MON 25/1200 | 410 | 60 | SSE | 4 | 6 | 8 | 95 | | | - | NIL | NIL | Med |
| MON 25/1500 | 450 | 40 | SE | 4 | 6 | 9 | 95 | | | - | NIL | NIL | Med |
| MON 25/1800 | 190 | 50 | SE | 4 | 6 | 9 | 94 | | | - | NIL | NIL | Med |
| MON 25/2100 | 27 | 45 | ESE | 3 | 4 | 7 | 93 | | | - | NIL | NIL | Med |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TUE 26/0000 | 0 | 40 | E | 3 | 4 | 6 | 93 | | - | NIL | NIL | Med |
| TUE 26/0300 | 0 | 45 | E | 4 | 6 | 6 | 92 | | - | NIL | NIL | Med |
| TUE 26/0600 | 60 | 30 | ENE | 5 | 7 | 6 | 92 | | - | NIL | NIL | Low |
| TUE 26/0900 | 310 | 25 | ENE | 5 | 7 | 8 | 91 | | - | NIL | NIL | Low |
| TUE 26/1200 | 410 | 40 | E | 7 | 10 | 11 | 91 | | - | NIL | NIL | Low |
| TUE 26/1500 | 430 | 50 | E | 7 | 10 | 11 | 92 | | - | NIL | NIL | Low |
| TUE 26/1800 | 200 | 45 | E | 6 | 9 | 9 | 92 | | - | NIL | NIL | Low |
| TUE 26/2100 | 20 | 40 | E | 5 | 7 | 7 | 93 | | - | NIL | NIL | Low |
| WED 27/0000 | 0 | 45 | E | 4 | 6 | 6 | 93 | | - | NIL | NIL | Low |
| WED 27/0300 | 0 | 30 | E | 5 | 7 | 7 | 95 | | - | NIL | NIL | Low |
| WED 27/0600 | 45 | 25 | SE | 4 | 5 | 7 | 97 | | - | NIL | NIL | Low |




