PROCESSES

Solar Trackers

Industrial devices

Analog Sensors

Power Monitoring Sensors

Trained and Deployed AI Model

Solar Trackers

String Monitoring

Inverters

Transformers

HT/LT Panels

Power Plant
GET A QUICK STATUS

**UV/PL Power**
- Generation ON: [ ]
- Total Power Generated: 71 MWh
- Insights: [ ]
- Irradiance: 5.4 W/m²
- %: 80.00%

**UV/PL Power**
- Generation ON: [ ]
- Total Power Generated: 26 MWh
- Insights: [ ]
- Irradiance: 5.1 W/m²
- %: 55.00%

**Performance Ratio (%)**
- 26 Oct: 74%
- 31 Oct: 24.49%

**CUT–DC Capacity (%)**
- 27 Oct: 1%
- 28 Oct: 1%
- 29 Oct: 1%
- 31 Oct: 1%
- 2 Nov: 1%
- Total: 84.49%

**Active Power and Irradiance (POA)**
- Peak Active Power: 2243kW
- Time: 2023-11-02 13:02

**Export Energy**
- [Graph]
- [Graph]

**Import Energy**
- [Graph]
- [Graph]

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**My Insights**

The summary of inverter-2 indicates several events and conditions. These include Free Running, MPPT Mode, DC CB OFF, DC CB ON FAILURE, DC EARTH FAULT, DC INPUT CONNECTION IN REVERSE POLARITY, DC LOW VOLTAGE, DC OUTPUT DETECTION, DC OVER CURRENT, DC OVER VOLTAGE, DC UNBALANCE, 24V SUPPLY, 6C OFF, AC CB OFF, AC CB ON, AC CT FEEDBACK, AC OVER CURRENT, AC OVER VOLTAGE, AC UNDER VOLTAGE, AMBIENT TEMPERATURE, EMERGENCY STOP, EXTERNAL SYSTEM ABNORMAL, FAN CONTACTOR, FEEDBACK REMINAL FREQUENCY HIGH, FREQUENCY LOW, GATE DRIVE POWER SUPPLY, IGBT HEAT SINK OVER TEMPERATURE, and IGBT SAT TRIP.

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How can I help you today?
Q&A IN NATURAL LANGUAGE

**Summary of Inverter-3**

Inverter-3 at Kodangal has been experiencing several issues. These include an external system abnormality, fan contactor issues, feedback abnormalities, high frequency, low frequency, problems with the gate drive power supply, IGBT heat sink over temperature, an IGBT SAT trip, and Inverter fuse issues. There are also logs related to the 6C being off, issues with the AC CB being off and on, AC CT feedback, AC over current, AC over voltage, AC under voltage, ambient temperature, and auxiliary input.

**Summary of Inverter-4**

Inverter-4 at Kodangal has been reporting several problems. These problems include fan contactor issues, feedback abnormalities, high frequency, low frequency, issues with the gate drive power supply, IGBT heat sink over temperature, an IGBT SAT trip, Inverter fuse issues, and a log related to INVERTER OIL.
# Detailed Report Insights

## Plant Information:

<table>
<thead>
<tr>
<th>Plant Name:</th>
<th>UVPL Power</th>
</tr>
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<tbody>
<tr>
<td>Report #:</td>
<td>201746566</td>
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<tr>
<td>Report Completed By:</td>
<td>Admin</td>
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<tr>
<td>Install Date:</td>
<td>14-12-2022</td>
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<tr>
<td>Installed/Run Days:</td>
<td>344</td>
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<tr>
<td>Report Date:</td>
<td>23-10-2023</td>
</tr>
<tr>
<td>Fault Type:</td>
<td>Electrical Overload</td>
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</tbody>
</table>

## Notes

The inverter has detected an electrical overload and has shut down.

## Cause of Failure

Despite advanced protections, electrical overload can still occur if there's a sudden surge in power from the solar array, possibly due to faults in individual panels or a failure in the MPPT process.

## Classification: H

## Recommendations

- Isolate and inspect the solar panel array to identify faulty panels or wiring.
- Ensure that the inverter's MPPT algorithms are tuned to respond rapidly to changing conditions.