CASE STUDY

Solar energy assist sustainable growth of Ganoderma

**Background:**
DXN Pharma, the world's largest Ganoderma manufacturer, continues to uphold the principal of sustainable development by utilizing green energy as their primary choice to power their operations. Relying on the increasingly sophisticated solar energy technologies, DXN Pharma would like to install a PV system to generate green electricity for their factory operations and to accelerate efforts in reducing carbon emissions.

**Challenges:**
Enterprises hope to achieve the highest ROI through PV systems, while ensuring safety, stable power generation. On the other side, Southeast Asia near the equator and has coastal cities, the special climate conditions were a major challenge for the PV system solution.

**Client Name:** DXN Pharma  
**Location:** Jitra Kedah, Malaysia  
**System Size:** 1.3MWac  
**Inverter Models:** 11 units HT 1100V series  
**Commissioning Date:** Dec - 2021  
**EPC:** ERS Energy
Solutions:

The DXN Pharma PV system is consisted with 11 pcs GoodWe three phase HT Series Inverters. The HT series is GoodWe's new string inverter for C&I and small utility projects, which offers up to 12 MPPTs, and is compatible with bifacial modules, easy for configuration & maintenance. It is also worth mentioning some special functions of this project, like the AFCI2.0 and Anti PID recovery. The excellent heat dissipation performance and Humidity monitoring can meet the particularity of its temperature conditions in Southeast Asia. Both the DC side and AC side are equipped with optional Type I surge protection to protect the inverter from lightning, providing upgraded safety and reliability for the PV system. From a revenue perspective, the PV system can generate up to 160MWh (Calculated in 10 years) of clean energy with monthly costs saving of up to RM 55,000.

Environmental effect:

PV generation spares 69215 kg of Carbon Dioxide, equivalent to:

<table>
<thead>
<tr>
<th>1,144</th>
<th>14.9</th>
<th>76,580</th>
<th>160</th>
<th>8,419,507</th>
<th>12,340</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preserve and Protect trees</td>
<td>Cars driven for 1 year</td>
<td>Pounds of coal burned</td>
<td>Barrels of oil consumed</td>
<td>Smartphone charges</td>
<td>Monthly save electricity bill dollars</td>
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</tbody>
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About GoodWe

GoodWe is a world-leading PV inverter and energy storage systems manufacturer listed on the Shanghai Stock Exchange (Stock Code: 688390). The company has more than 3,000 employees located in 20 different countries and a team of over 600 engineers working at its R&D centers to continuously optimize and advance energy storage technology. GoodWe storage inverters were ranked No. 1 globally by Wood Mackenzie in 2020, with over 15% market share, and the company was ranked one of the world’s Top 10 inverter suppliers by IHS Markit. Having achieved over six consecutive TÜV Rheinland "All Quality Matters" awards and consistently being ranked at the top in terms of overall product quality, GoodWe’s comprehensive portfolio of products and solutions for residential, commercial, and utility-scale PV systems is guaranteed to deliver high performance and reliable quality across the board. For more information, please visit goodwe.com.