3. Solar and grid dual input off grid energy storage

**Applicable conditions:**
1. High electricity price, no electricity or power shortage areas;
2. Blackout but demand aeration at night.

**Advantages:**
1. Adopting PV energy storage and utility grid hybrid supply mode to achieve system operation throughout the day continuously;
2. Modular design, fully automatic operation, low maintenance cost;
3. PV and AC power hybrid simultaneously online operating, priority to the use of photovoltaic energy, improving reliability significantly;
4. The system is high efficient and long lifespan; easy and convenient installation, maintenance-free;
5. Perfect solution for all kinds of farming or environmental protection projects in high electricity prices, no electricity and power shortage areas;

---

**Solar Aeration System Solution**

| 1.1kw project | 750w project | 1.1kw project |
| 2.2kw project | 1.1kw project | 1.1kw project |

---

**JNTECH RENEWABLE ENERGY CO., LTD** was set up in 2006, is an international high-tech enterprise, which integrates intelligent power electronics products R&D, manufacture, sales and service, with branches at different countries and regions in Pakistan, Kenya, Sudan, Dubai, Philippines, Morocco and Mexico. Relying on Chinese famous technology university’s human resource and technical advantage, JNTECH upgrades products and technology through enterprise, university, research cooperation.Owns more than 60 solar patents, participates to set China Solar Standards, JNTECH developed solar off grid inverter, solar pumping system; solar powered energy storage inverters and related systems are widely used in more than 60 countries. JNTECH has been listed in the bidding catalogue and provider of China’s international projects (e.g. NCAA, FAO, NGO, etc). Over the years, “JNTECH” brand enjoys a high reputation in the industry.

JNTECH aims to become the outstanding international solar solution provider for intelligent solar energy products, solar irrigation and water treatment system, solar ecological treatment systems. Adhering to the idea of “creating green energy future, Ensure the sustainable social development”, JNTECH takes scientific development view as guideline creating green eco-friendly new energy as duty, keeps serving society, people and the national.

---

**Jntech Renewable Energy Co., Ltd**

Tel : 0551-62930323
Email : sales@jnnewenergy.com
Web : www.jntechenergy.com
Add : NO.28 Taiyuan Road Hefei Anhui China

---

**Click on the QR code to view more information.**
### System features
- Solar power supply all-day, zero-cost operation throughout the year; green, energy-saving, environmentally friendly;
- Automatic intelligent switch according to the intensity of light, adjust the aerobic power; no need for manual management throughout the year;
- Compared to traditional utility grid aeration equipment, no electric shock, safe;
- The core components have a service life up to 15 years to prevent environmental pollution and ecological damage;
- The metal parts of the system are made of aluminum alloy and stainless steel, which are durable and rust-proof;
- Energy storage and non-storage systems are available according to customer requirements.

### System applications
- Industrial wastewater, sewage water treatment
- Parks, waterfalls, lakes, etc. landscape water treatment
- Rivers, lakes, etc. surface water purification
- Fish and shrimp farming
- Other related water treatment uses

### System accessories
- GPRS module
- Mobile phone APP
- Smart remote controller

### Power supply system (Solar panel+Inverter+Floating structure)

### Aerator parameter

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
<th>LEAKAGE (m³/h)</th>
<th>800-1200</th>
<th>220-280</th>
<th>750W</th>
<th>7.5KHZ</th>
<th>50HZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paddlewheel Aerator</td>
<td>JN-SC-750</td>
<td>200</td>
<td>800-1200</td>
<td>220</td>
<td>750W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impeller Aerator</td>
<td>JN-YL-750</td>
<td>200</td>
<td>800-1200</td>
<td>220</td>
<td>750W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jet Aerator</td>
<td>JN-PY-280</td>
<td>490</td>
<td>200-600</td>
<td>220</td>
<td>750W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>JN-PY-490</td>
<td>490</td>
<td>300-600</td>
<td>220</td>
<td>750W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>JN-PY-750</td>
<td>490</td>
<td>500-1000</td>
<td>220</td>
<td>750W</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Power supply system

<table>
<thead>
<tr>
<th>Name</th>
<th>Model</th>
<th>Rating (W)</th>
<th>Type</th>
<th>Number of panels</th>
<th>Panel voltage (V)</th>
<th>Inverter model</th>
<th>GPRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar pump inverter</td>
<td>JN-PY-280</td>
<td>280W</td>
<td>Floating</td>
<td>2</td>
<td>220</td>
<td>JNP370LS-V1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>JN-PY-490</td>
<td>490W</td>
<td>Floating</td>
<td>2</td>
<td>220</td>
<td>JNP550LS-V1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>JN-PY-750</td>
<td>750W</td>
<td>Floating</td>
<td>2</td>
<td>220</td>
<td>JNP750LS-V2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>JN-PQ-250</td>
<td>250W</td>
<td>Floating</td>
<td>2</td>
<td>220</td>
<td>JNP370LS-V1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>JN-PQ-550</td>
<td>550W</td>
<td>Floating</td>
<td>2</td>
<td>220</td>
<td>JNP550LS-V1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>JN-PQ-750</td>
<td>750W</td>
<td>Floating</td>
<td>2</td>
<td>220</td>
<td>JNP750LS-V2</td>
<td></td>
</tr>
</tbody>
</table>

### System Diagram

**1. PV type**
- Advantages:
  1. Pure photovoltaic energy work, no operating costs;
  2. Modular design, fully automatic operation, low maintenance costs;
  3. Away from the utility grid, no risk of electric shock, safe and high-efficient, long-life;
  4. The installation is simple and convenient, the system is maintenance-free;
  5. Perfect solution for aquaculture or environmental protection projects in off-grid or remote areas.

**2. Solar and grid dual input type**
- Applicable conditions:
  1. High electricity price; no electricity or power shortage areas;
  2. The system is driven by photovoltaic directly, low cost system, but when there is not light, switch to grid supply for aeration.
- Advantages:
  1. Solar and grid dual input mode to realize 24H operation of the system;
  2. Adopt modular design, automatic operation, low maintenance costs;
  3. Solar and utility grid work online at the same time, to maximize the utilization of photovoltaic energy and reduce the operating cost significantly;
  4. High efficiency and long service life; Simple installation, convenient, maintenance-free system;
  5. Perfect solution for all kinds of breeding or environmental protection projects.