Increased profitability makes an auspicious beginning

Acquire the new Solar Bulk Milk Cooler and see your profits soar
The Case For Solar Energy

The gap between demand and supply of electricity in developing countries is not only huge, but widening by the day. Add to this the grim facts that power and fuel prices are exponentially climbing. Power supply even if available is very erratic. Against this backdrop Renewable Energy comes as the perfect answer, it is derived from natural processes that are replenished constantly and are SOLAR ENERGY the mother of all renewable energies, is the ideal solution and a combination of the 3E's

ECONOMY:
Being free of Cost, SOLAR ENERGY always has an attractive payback from the perspective of life cycle cost.

ENERGY:
SOLAR ENERGY is plentiful and virtually inexhaustible; studies show that the energy needs of our entire planet can be addressed by the power of Sun alone.

ECOLOGY:
SOLAR ENERGY is clean, silent and generates no waste. Thus it does not contribute to global warming or create any environmental hazard. It allows compliance under the Kyoto Protocol and also helps users to reduce their carbon foot print.

It is all these reasons that made KRISHNA ALLIED INDUSTRIES PVT LTD choose SOLAR ENERGY as the fulcrum for their new break through in Milk Cooling Systems.

System Inclusions:

- Milk Cooling Tank
- Condensing Unit
- Solar PV Panels
- Battery Bank
- Multi Point Power Tracking Module (MPPT)
- Smart Water Heater
- SS Milk Pump
- SS 304 Pipe & Fittings
- Electrical & Control Panels
Multi Point Power Tracking Module (MPPT)

DICHARGING
SOLAR POWER
BATTERY
GRID

CHARGING
SUN
GRID

If no solar available it will charge from grid

Technical Specifications of Solar Bulk Milk Cooler (SBMC)

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Solar PV System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Milk Tank: Diameter 1425 mm x Height 1400mm</td>
<td>Type: Poly/Mono Crystalline</td>
</tr>
<tr>
<td>Condensing Unit: 850mm x 750mm x 750mm</td>
<td>Quantity: 18 No.</td>
</tr>
<tr>
<td>PV Panel Area: 5m x 5m</td>
<td>System Capacity: 8KVA</td>
</tr>
</tbody>
</table>

Battery

Type: Tubular Lead Acid
Quantity: 12 Nos.
Capacity: 13.8V per Battery
Max Ampere Hours: 220AH

Cooling Tank

Capacity: 1000 Ltrs
Shape: Open Vertical Type
Condensing Unit: 1 x 3.0HP
Specs: ISO 5708 Class 2A II

Key Features

- Charging System Equipped with Multi Point Power Tracking Module for optimum use of Solar Energy
- Priority of Switching Power source is as follows:
  (i) Charging: Charges from Solar PV Panels
          Charges from Grid Power (in absence of Solar Energy)
  (ii) Discharging: Operates from Solar PV Panels
                   Operates from Battery Bank (in absence of Solar Energy)
                   Operates from Grid Power (in absence of both Solar and Battery Bank)
- Battery Backup 6 hours, Recharging Time 7 hours
- Power output is 3Ø soft start pure sine wave having over 75% efficiency
- Under & Over Voltage Protection
- Reverse Polarity Protection
- Output Short Circuit Protection
- Protection from Lightning
- LED based visual indication of faults
- Controller equipped with separate battery backup to perform the following in absence of any power
  (i) Display Temperature of Milk
  (ii) Display Compressor Run Time
  (iii) Intermittent agitation for 8 hours
- System equipped with Smart Water Heater which prepare hot water for CIP saves power and improves compressor efficiency
- Built in RS232 communication for system data transfer
## Comparison Table

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Existing BMC</th>
<th>Solar Powered BMC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saving in Cost of DG Set</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Saving in Cost of Voltage Stabilizer</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Saving in Chilling Cost</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Saving in Maintenance Cost</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Saving in Diesel/Fuel Cost</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Auto Stabilization towards Grid Fluctuation</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Built in Smart Water Heater</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Zero Emission</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Clean Environment</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Government Subsidy</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Interest Subsidy</td>
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<td>✓</td>
</tr>
<tr>
<td>Tax Saving</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Income through Carbon Credits</td>
<td>✗</td>
<td>✓</td>
</tr>
</tbody>
</table>

## Save Energy

Save Money

Save the Planet

## About Us

- Krishna Allied Industries Pvt Ltd is a leading manufacturer of Milk Collection Dairy Equipment.
- An ISO 9001-200 Certified Company committed to world class quality, combined with efficient delivery, competitive pricing and dedicated after sales service.
- Product Range includes Bulk Milk Cooler, Milking Machine, Milking Parlors, Stainless Steel Milk Cans, Tanker Security Systems amongst others.
- Has a professionally qualified design team dedicated to set consistent benchmarks in product design and provide customer delight.
- Company’s hallmarks are scientific precision, eco-friendly & durable products, ease of maintenance and an unquenchable thirst for excellence.