



**High Quality & Affordable Solar Solutions Company**

**Case Studies**

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# Cold Storage Project

## Project Details

Location: Bhiwandi, Mumbai - Maharashtra

Project Size: 30kW

Inverter Model Used: FlinInfini Lite 5kW-48V

Panels Installed: 35.1kW

Batteries Used: 24 x 200AH Batteries

Client Type: Food & Beverages

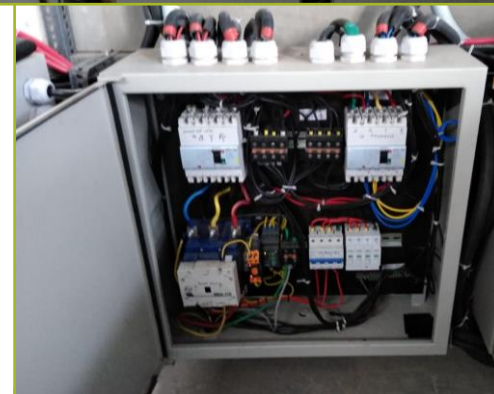


## Project Overview

Akshar Foods is a food company supplying premium corn to PVR cinemas. They needed cold storage freezers to store the corn and other food grains. They were facing power cuts and voltage fluctuations. Further, they had to run diesel generators for back up which was neither economical nor environment friendly. Our local partner, **Sustanova Energytech Pvt Ltd.**, offered to them a 30kW hybrid solar solution to resolve the current issues and offer net metering option for future.

## Client Feedback

Reduction in electricity consumption by 75%.



# Residential Project

## Project Details

Location: NAPS Township, Narora, Bulandshahr UP

Project Size: 5.6kW

Inverter Model Used: FlinMarvel MPPT 5.6kW-48V

Panels Installed: 2.25kW

Batteries Used: 4 x 240AH Batteries

Client Type: Residence

## Project Overview

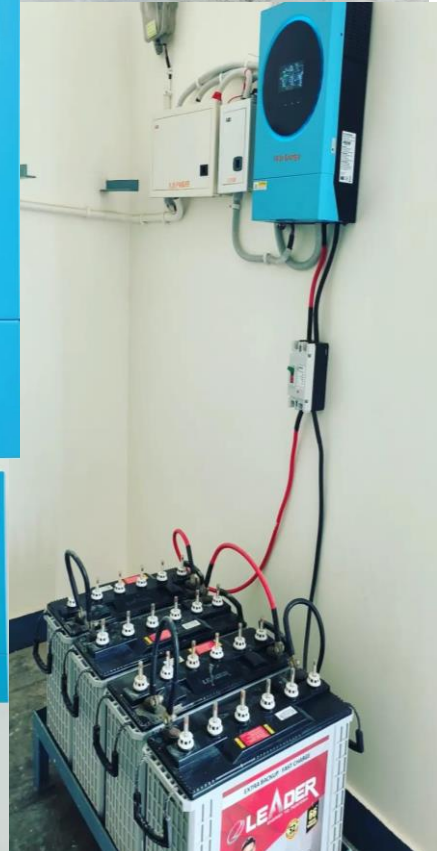
Mr Hukam Singh decided to go for solar to reduce dependency on electricity supply. Our local partner, Mr Abhishek from GEC offered a 2.25kW solar solution to help them meet their existing requirement and leave option open for expansion.

## Client Feedback

Electricity bill is almost zero now.

Enjoying using heavy loads on solar such as Geysers & ACs in winter and summer

Reduced LPG consumption also as now cooking using electric induction on solar power.





# School Project

## Project Details

Location: Jammu, J&K

Project Size: 20kW

Inverter Used: 5 x FlinSlim Dual MPPT 5kVA-48V

Solar Panels Installed: 20kW

Batteries Used: 20 x 150AH Batteries

Client Type: Educational Institution

## Project Overview

SP Smart School located in Jammu was facing huge issues with power outages and unreliable power supply. This was directly affecting the day to day working of the school.

Our local partner **GP Eco Solution India**, recommended them to go for solar to resolve their problem. The solution recommended was based on their power requirement on a daily basis to ensure smooth functioning.



# School Project

## Project Details

Location: Dahanu, MH

Project Size: 10kW

Inverter Model Used: 2 x FlinInfini Lite 5kW-48V

Panels Installed: 8kW

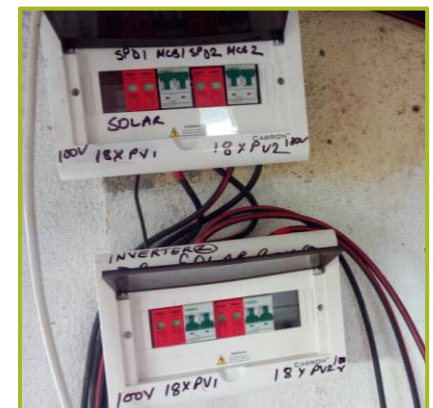
Batteries Used: 16 x 150AH Batteries

Installation Type: Educational Institution

## Project Overview

This setup was done for a training school run by Rustumjee Group “YZAD EDUCATION TRUST”. They were facing power outages and also had instable grid voltages. They earlier had another on grid inverter which did not support their power requirement. Once the system would shut down batteries would only last untill 4:00 pm since power was always channelized via batteries.

We recommended them to go for our solar inverters which provide power directly from solar without using batteries during the day-time. They opted for our hybrid solar inverters due to built-in net metering functionality that they can use in future.



# Medical Facility Project

## Project Details

Location: Hathras UP

Project Size: 15kVA

Inverter Model Used: 3 x FlinSlim Trio MPPT 5kVA

Panels Installed: 7.2kW

Batteries Used: 12 x 200AH Batteries

Client Type: Medical Facility

## Project Overview

Agra Hospital based in Agra faced a lot of issues with erratic power supply and being a medical facility they required 24 hours of continuous power supply.

Our local partner **Applied Electronics** addressed their power problem by recommending them a 100% off-grid solution to reduce dependency on grid power to zero and be self sufficient for their power requirement.





# Medical Facility Project

## Project Details

Location: Hathras UP

Project Size: 12kW

Inverter Model Used: 3 x FlinInfini Lite 4kW-48V

Panels Installed: 8.1kW

Batteries Used: 16 x 150AH Batteries

Client Type: Medical Facility + Residential



## Project Overview

Client was facing power problems in their nursing home, due to power cuts and having to use diesel generators to ensure 24 hours power availability.

Our local partner **Applied Electronics**, recommended them to go for solar to resolve the power outage problem as well as solar being more economical than diesel generators. Hybrid solar inverters were recommended to ensure availability of net metering option for future.





# Medical Facility Project

## Project Details

Location: Jharsuguda, Western Odisha

Project Size: 40kW

Inverter Model Used: 9 x FlinSlim Dual MPPT 5kVA-48V

Panels Installed: 40kW

Batteries Used: 24 x 150AH Exide Batteries

Installation Type: Medical Facility

## Project Overview

Client was facing huge power outages in morning hours and the power was unstable. Their electricity bills were also huge so they were looking for a solution to resolve these issues. Our local partner Smart Solar Bidgely Solution Pvt Ltd visited the customer and suggested them to go for a 40kW solution configured in three phases for their use. The project was executed within 6 weeks time.

## Client Feedback

Customer is very happy as his electricity bills have reduced and also now they do not have power problems.



# Farm Project with DC Changeover

## Project Details

Location: Mysore, Karnataka

Project Size: 5.2kW

Inverter Used: 1 x FlinFuzion MPPT 5kVA-48V

Solar Panels Installed: 5.2kW

Batteries Used: 4 x Livfast 165Ah

Client Type: Farmhouse + Borewell Pump

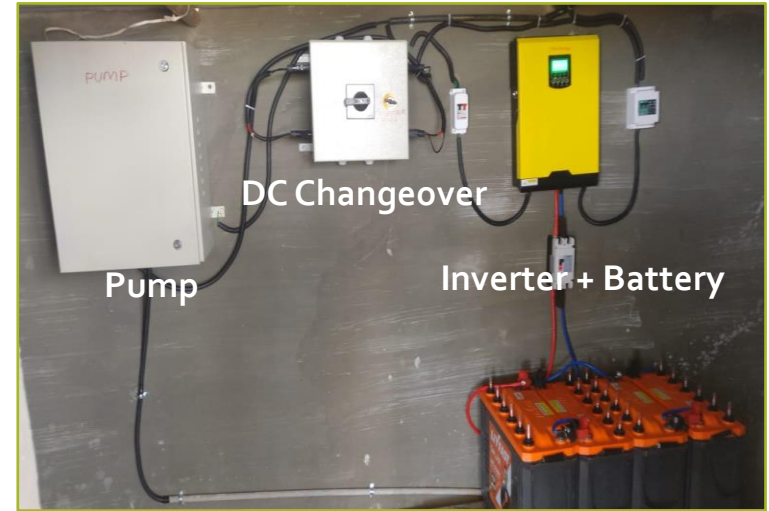
## Project Overview

Client had a solar setup for his 5hp borewell pump already installed. He was looking for electricity for his farmhouse where no grid was available. He wanted to use same set of solar panels for his borewell and when borewell was not in use for his farmhouse. Our local partner SmartEco suggested to them to go for FlinFuzion MPPT 5kVA-48V Solar Inverter with 4 batteries and a DC Changeover so that he could switch the panel array between his borewell and his farmhouse.

## Client Feedback

Client is very happy and he has electricity available 24\*7 and does not have to dependent on any other source for his power requirements. He is able to use his panels efficiently between his borewell pump and his farmhouse.

 **Flin Energy**



# Farm Project

## Project Details

Location: Nandgaon Village, Jawhar, Maharashtra

Project Size: 5 KVA

Inverter Used: 1 x FlinSlim MPPT 5kVA-48V

Solar Panels Installed: 3kW

Batteries Used: 4 x Exide IT750 200AH

Client Type: Farmhouse + Irrigation motors



## Project Overview

Client approached us for a solar solution for his farmhouse + residence as he had no other power source apart from diesel generator that he was using. He was quoted as high as 20 lakhs for a 5kVA set up which could only be installed with multiple inverters and controllers been put together. We offered him a complete set up including installation for a 3kw set up using FlinSlim MPPT 5kVA inverter for ₹5 lakhs.

## Client Feedback

Satisfied to have his own power source, he later became our local partner. He recovered the cost of investing in solar in 2 years over diesel generator. Running a farm house with 1 borewell (0.75 HP) and 2 X 0.5 irrigation pump sets. When borewell runs dry, a 1 HP pump works to pump water from the open well. Entire house runs 24X7 on solar with regular household loads like induction cooker, mixer grinder, lights, fans, TV, fridge and washing machine.



# Farm Project

## Project Details

Location: Philippines

Project Size: 16kVA

Inverter Used: 4 x FlinSlim MPPT 4kVA-48V

Solar Panels Installed: 12kW

Batteries Used: 12 x 200AH Batteries

Client Type: Farmhouse



## Project Overview

Located in rural part of Nagacity, Philippines the client faced lot of problem with electricity high rates and power cuts.

We installed 4 inverters of 4kVA size with 12kW panels to cater to the needs of running the swimming pool motors and water fountains installed all across the farmhouse. Other load included lights and fans.





# Dairy Farm Project

## Project Details

Location: Bidar, KA

Project Size: 5KW

Inverter Used: 1 x FlinSlim MPPT 5kVA-48V

Solar Panels Installed: 12X 320 Watt Panasonic

Batteries Used: 8 x 200Ah Batteries

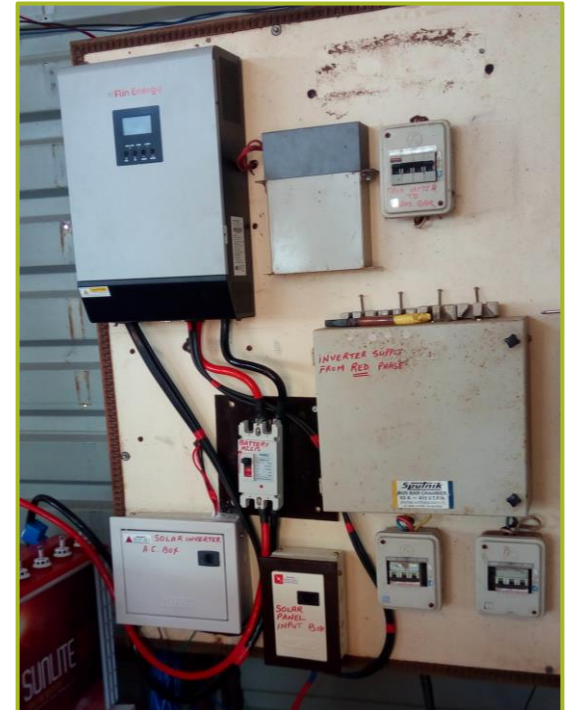
Client Type: Dairy Farm (Gaushala)

## Project Overview

Client initially approached us for solar power to run a hydroponic gau char(fodder unit). Client had maximum of 3 hours of power per day. When our local partner, **The Rising Sun**, did a site visit, they realised the milking parlour and compressor were being run on diesel generator for about 5 hours per day. Our partner then suggested to bring 2 HP milking parlour and washing compressor onto solar besides the hydroponic setup(1 HP+0.5 HP foggers and watering unit).

## Client Feedback

Customer is amazed at the performance and power that he is receiving using solar. He had not expected that so much could be powered using solar power.



# Solar VFD Project

## Project Details

Location: Meundi, KA

Project Size: 10.4kW

Inverter Model Used: 1 x FlinFlow 7.5kW with 2 Chokes (Inductors)

Panels Installed: 10.4kW

Client Type: Farm

## Project Overview

Customer wanted to run his 7.5 HP Pump installed at 40 feet depth with well depth of 120 feet. He was looking at reduced electricity bills to run his water pump.. Our local partner Tech Solutions recommended FlinFlow 7.5hp Solar Water Pump – with inbuilt VFD with 10.4kW panels to meet customer requirement. Solar Solution is installed at a distance of 700 feet due to restriction on availability of land area

## Client Feedback

Customer is very happy and mentioned that water output is same as output received when powered through grid. Customer has now disconnected grid and using pump completely off-grid.



# Petrol Pump Project

## Project Details

Location: Manjari Village, KA

Project Size: 10 Kw

Inverter Used: 2 x FlinSlim Dual MPPT 5kVA-48V

Solar Panels Installed: 6.4kW

Batteries Used: 8 x 200AH Batteries

Client Type: Oil & Gas Company

## Project Overview

Requirement was to power 3 fuel islands including one HSD pump and LED lighting. Office was shifted onto solar priority. The site is now running 90% of the times on solar power.

Due to sensitivity of project, the local partner worked with Flin Energy to provide two solar inverters to provide redundancy in case of any failure of any one system.





# Solar for NBFC

## Project Details

Location: India

Project Size: 10 sites

Inverter Used: FlinSlim PWM 5kVA-48V

Solar Panels Installed: 2kW per site

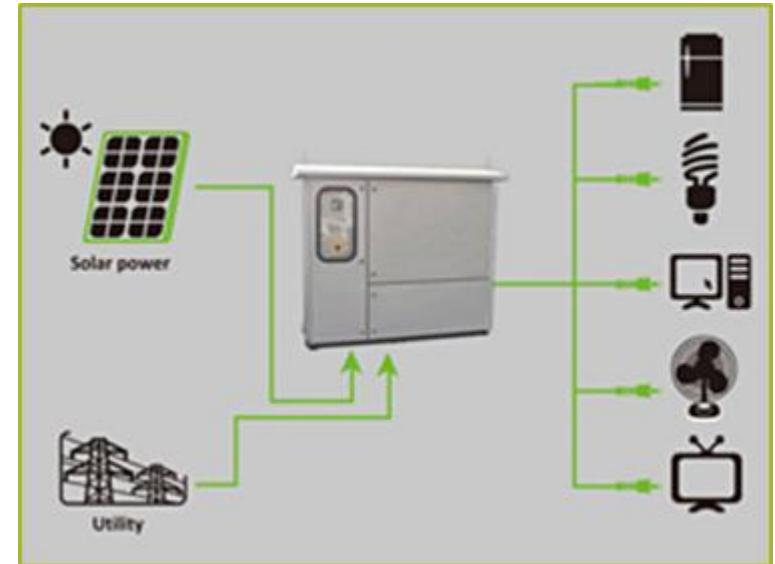
Batteries Used: 4 x 200AH Exide Solar Tubular

Client Type: Non Banking Financial Company

## Project Overview

Located in rural India these non banking financial companies faced a lot of problems with respect to low availability of power. Also, using diesel generators was turning out to be not economical for them.

Our local partner **EMHT**, recommended them to use solar for their day time consumption, Using Flin products, solar gave them direct power during the day and batteries provided back up power for evening/night time consumption.





# Solar for Water Purification

## Project Details

Location: Thailand

Project Size: 75 sites

Inverter Used: FlinSlim MPPT 2kVA-24V

Solar Panels Installed: 1.5kW per site

Batteries Used: 2 x 150AH batteries

Client Type: Corporate

## Project Overview

Grundfos India Pumps Ltd have been using our Flin solar inverters for their water purification boxes which are installed in off-grid locations. They run these purifying machines round the clock.

We recommended them to go for solar using our 2kVA size of inverters to facilitate round the clock power and ensure that the purifying machines do not stop. Solar power provides direct power to the load during the day as well as charges the batteries which would provide power during evening /night time.



# Happy Customers



By [Dr.Ashwin Udyavar](#)

Its not an inverter.... It's a smart PC....



By [Kantubhai G. Naik](#)

Flin Energy Solar System is the best....



By [M. Bapat](#)

Excellent trouble-free product !....



By [Sanjeev](#)

Amazing product .....



By [Clif](#)

Best Seller, Amazing Inverter, Recommended for all.....



By [ivor singh](#)

Great Inverter. Reasonable Price. Excellent Support....



By [polycontrols.in](#)

Perfect performance & service....



By [polycontrols.in](#)

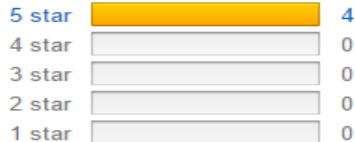
Perfect performance & service....

# Happy Customers

amazon



5.0 out of 5 stars



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## Most Helpful Customer Reviews

2 of 2 people found the following review helpful

★★★★★ **3 KVA MPPT Solar Inverter**

By [Pravin Shrivastava](#) on 27 March 2015

I have Purchase 3 KVA MPPT Inverter one month before. I was purchased after searching so many inverter on net as well as local suppliers. I found this is amazing, no comparison with any other inverter available in Indian MARKET, although it was Tiwan made. This automatic system are just amazing. I have only attached 1500W PV at 48V 150 Ah battery. My battery is full around 2 PM daily and I was unable to use its full capacity. It was working with all my electric appliance like LCD/LED TV , Microwave Oven, Mixi , as well as my 2 HP submersible pump at 500Ft depth. But I am always taking care that the load should not be over loaded. It has a great automatic function, in case of over load its automatically catch the grid current. Apart from this on Computer display is the most fun for our family. Me and my children are always interested to show the PV current activity.

Great inversed in its class. Worth for Money. Thanks to Flin Slim Team.

Pravin Shrivastava, Indore (MP)

Was this review helpful to you?

1 of 1 people found the following review helpful

★★★★★ **Great inverter. Reasonable price. Excellent support**

By [ivor singh](#) on 28 March 2015

This inverter is amazing. We bought the 5 kva mppt 48 volt dc battery model which we installed at our farm. Not having any other source of regular power we are using this inverter completely off grid to run our house and also our single phase 3/4 hp borewell pump. Our fridge, tv, washing machine, induction cooktop, oven, iron, grinders, mixes etc all run with out any problems. The mppt charger works well and charges a 200 amp battery bank by mid day on most days. Most power loads in the day run directly off the inverter unless there is not enough sunlight. Tested even on cloudy days and found that the batteries charge up fairly well. The inverter is value for money. Our inverter works completely off grid and has no input from grid or generator. The 5 kva inverter coupled with a 3 kwatt solar pv array and a 200 amp battery bank is what we have installed. We have received huge support from the company and we were able to install this inverter ourselves without any problems.



[LINK TO DEATILED REVIEWS](#)

# Happy Customers

amazon



1 of 1 people found the following review helpful

★★★★★ **Excellent Inverter: FlinSlim Solar Hybrid Inverter 2KVA/24 volts**

By [Abhijit Borah](#) on 14 June 2015

I had purchased this inverter and have been using it for more than a month. It has given me excellent service.

The pros:

1. Efficient - hardly any heat loss. It does not heat up and loose energy unlike my earlier two inverters.
2. Noiseless - as there isn't much heating loss, the cooling fans also switches on less.
3. Sleek design with very small form factor - does not take up so much of space in your home.
4. Configuration - being micro-controller controlled, there are a lot of settings to configure in the inverter to suit our situation.

Some guides:

1. Proper MCBs (three sets) are required.
2. House wiring must not be defective. The Ground-Neutral lines isolation must be proper.

Above all the company gives excellent tech support and after sales service.

Was this review helpful to you?

1 of 1 people found the following review helpful

★★★★★ **Flin Energy products and services**

By [Aditya](#) on 6 July 2015

I have purchased and installed a 2kVA - 24V system along with 250Wx6 panels from Flin Energy as a D-I-Y project. The product pricing is quite competitive; but most importantly, product support and service from the Flin Energy is excellent. The installation steps and diagrams provided were easy to follow and the technical support team was available for answering all queries.

I'd highly recommend the company.

Was this review helpful to you?