

# brigade petunia

a case study | October 2018



In **AUGUST 2018**, Brigade Petunia became the first apartment community in Bangalore to run **100%** of their common area on solar power.



This is a **JOURNEY** into *how* that happened, *what* it means for their residents, and the *impact* on the community.



## SOLAR FOR APARTMENT COMMUNITIES

Today, for existing apartments the **clear and specific solution** is to offset the common area energy requirement with solar power.



### 01

#### Understanding the requirement.

Brigade Petunia had **INR 1,00,000** of electricity bills every month on average.

This means that they consume about **11,500 UNITS** of electricity in their common area, *every month*.

This was across **TWO electricity meters** for the common area.



### 02

#### Providing the solution.

*Theoretically*, they needed **96 kilowatt** of solar power.

They had enough space, **9600 SQUARE FT.**, to place the solar PV panels.

**96 kWp** for **90% reduction** on electricity bills, when taken on an annual average, was the solution.

Due to a bit of shading on the rooftop, **SolarEdge** optimiser technology was integrated.



### 03

#### Number crunching.

Since it was a first of its kind investment for an apartment community, we had to really **DIG DEEP** to ensure the investment made sense.

With a **break-even period of 7 YEARS** at **16% (IRR)**, it was clearly deemed better than the returns from a fixed deposit in a bank. [IRR = Internal Rate of Return]

And of course, there's the **energy independence**, and **positive environmental impact**.



### 04

#### The real-time impact.

**SEPTEMBER 2018.**

Number of units from solar: **12,200 kWh**  
Number of units consumed: **11,900 kWh**

**ZERO** electricity bills (*and 90% reduction of annually for 25 years more*)

project done by



Solarify





DRONE TOP VIEW



ON-GROUND VIEW



SolarEdge INVERTER



Solarify

📍 BANASHANKARI, Bengaluru



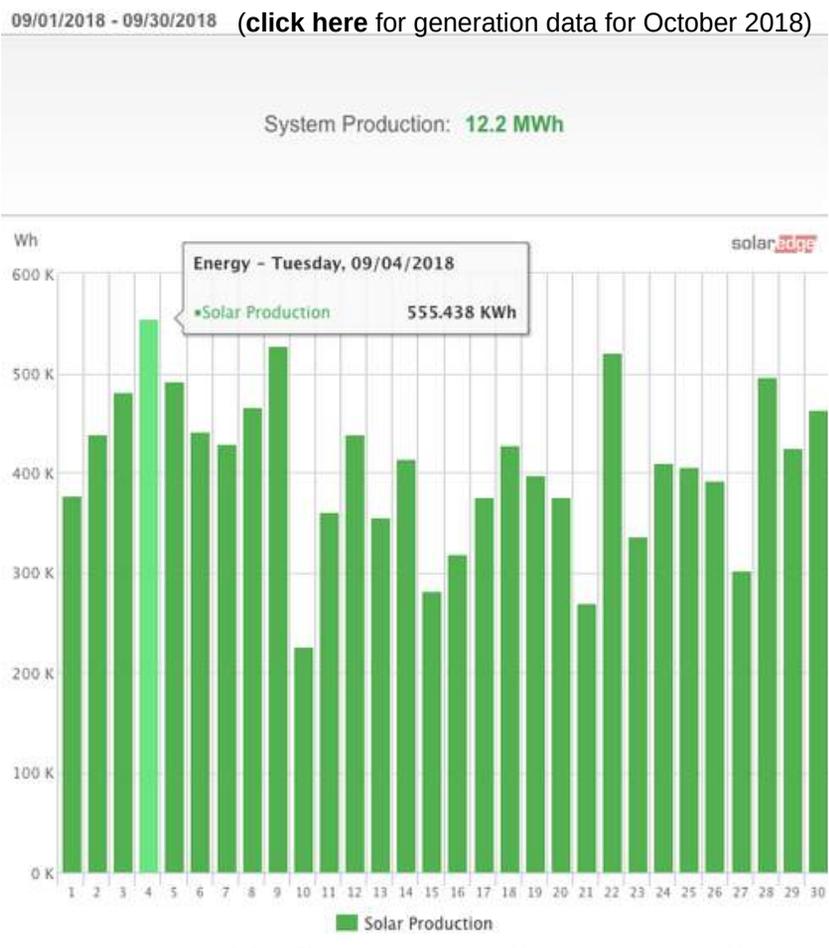
From the

# COMMUNITY

"When we as a **community at Brigade Petunia** explored adopting solar power at our apartment for common areas, it took us a while to understand all the intricacies involved with vendor due diligence and execution capabilities. While we approached multiple solar energy companies, we were able to trust the vendor team at **Solarify** and U-Solar, on a **professional and personal level**. Our committee is **happy** with the final decision. Using SolarEdge's cutting edge power optimizer technology and deciding to invest on capital expenditure were among the key decisions we made, with the **technical and financial expertise** provided by our vendors. Right from the design, installation and agreements with BESCO, **everything from start-to-finish** was handled by our vendors. With our solar energy plant performing **10% better** than expected, we are able to **reduce our common area electricity bills annually by 90%** (approximately) and it is definitely worth the investment. We are **happy** to have worked with our vendor team for project implementation."

Nikhil Grover  
 Association Member, Brigade Petunia

## September 2018 (solar production)



## project highlights

- **BEST-IN-CLASS** solar inverters & optimisers from SolarEdge
- **10%** higher generation than other similar projects
- **SECOND BEST** efficiency amongst all SolarEdge installations in India

## about us

**Solarify** is a platform to accelerate the deployment of rooftop solar energy by making it easier for end consumers to access information, expertise & financing for solar power.

**GET IN TOUCH**

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