



Inspection report

For Enphase system #

6/12/2018

Thank you for ordering the **Enphase Remote Inspection Report**. The Enphase system brings together solar, storage and energy management to optimise energy production and provide insight in one single integrated energy system. With this report you can ensure your system is running properly and identify any issues that need attention.

Enphase Energy
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Enphase Proprietary
Sample Report

A detailed look at the Enphase system

We have included more details about the components of your Enphase system to help you better understand each section of the inspection report. Play the video below to get started.



The various components of the Enphase system are introduced below:

- 1 Microinverter** – Tucked beneath each solar panel, a microinverter converts the direct current (DC) power generated from the panels to alternating current (AC), the form of electricity your home uses.
- 2 Envoy** – This small device is the networking and control hub of your system. Envoy is a two-way communication device, collecting data from your microinverters and delivering it to the Enphase MyEnlighten software in the cloud and delivering updates to your microinverters automatically. It even enables your installer to pinpoint any issues remotely.
- 3 Advance Metering** – This empowers the system with professional grade production and consumption monitoring through the use of specialized hardware called current transformers (CTs). Each system may have up to 3 CTs.
- 4 MyEnlighten** – This cloud-based software gives you an in-depth view of your system's production and consumption - from any digital device. Simply download the MyEnlighten app from the Apple Store or Google Play. Use MyEnlighten to track your system's performance, monitor your system's health, and share data with family and friends. For more details of your system, including per-panel production data, upgrade to Enlighten Manager.
- 5 Enphase Storage System** – One or more Enphase AC Battery storage units allow you to store and manage your home's energy so that you can become more energy independent. Each AC Battery storage unit consists of 1 or more integrated microinverters and a battery. The system can even be configured for optimal energy usage so that energy is stored when production is abundant, and used during peak times or when power is scarce.

Your Enphase system details

Here are details about your system. Contact [customer support](#) to update any information below.

Owner Information

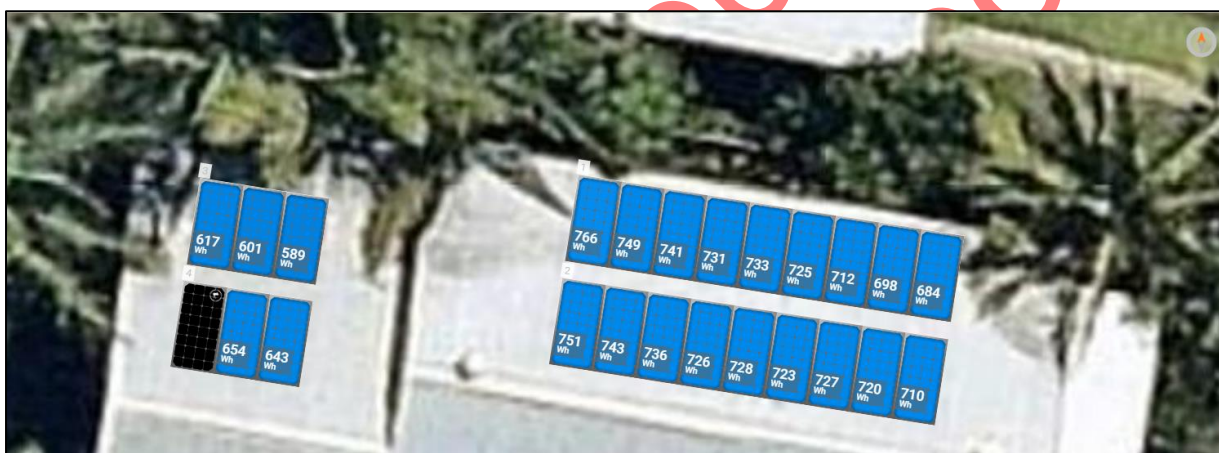
Site ID	
System Name	
Email	
Phone Number	

Installer Maintenance Information

Installer Name	
Email	
Phone Number	
Website	
System Maintainer's Name	
Email	
Phone Number	

Installation map

This section provides view of your array as it was installed on your roof along with the previous days' panel level production.



These are Sample images. Actual images will change from site to site



Not working



Working Properly

Summary of Issues identified, resolution, and case number

This section summarizes all the issue(s) found with your system and steps to resolve these issues.

Type of Equipment	Serial Number	Issues Identified

A customer service case has been created for the issue(s) identified. You will receive an email at your registered email and a customer service agent will follow up with you to help resolve the identified issue(s).

The case number is #_____.

For further inquiry, please contact the *Enphase Support Team* at:

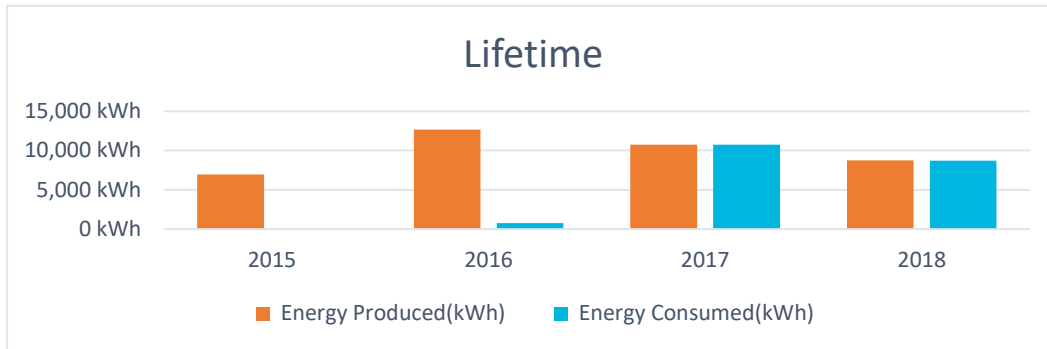
<https://service.enphaseenergy.com>

(877) 797-4743

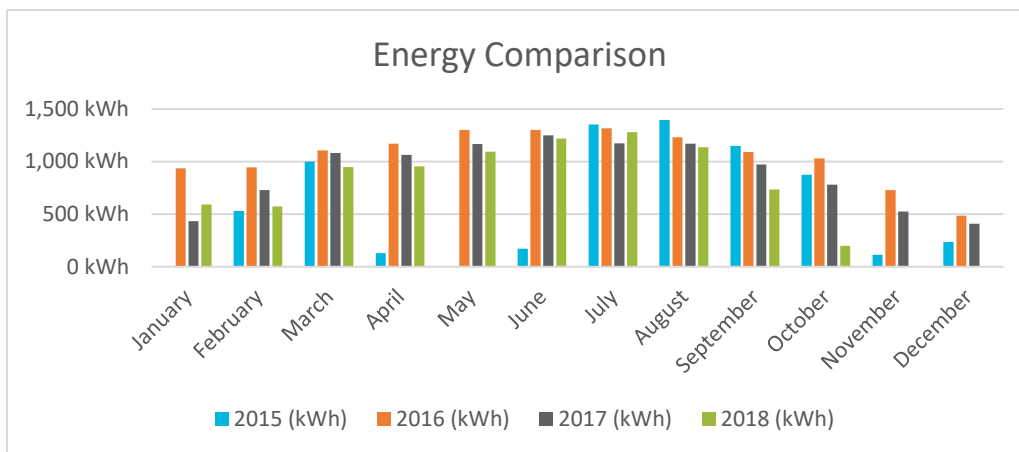
Enphase Proprietary
Sample Report

Energy comparison reports

Yearly energy comparison report

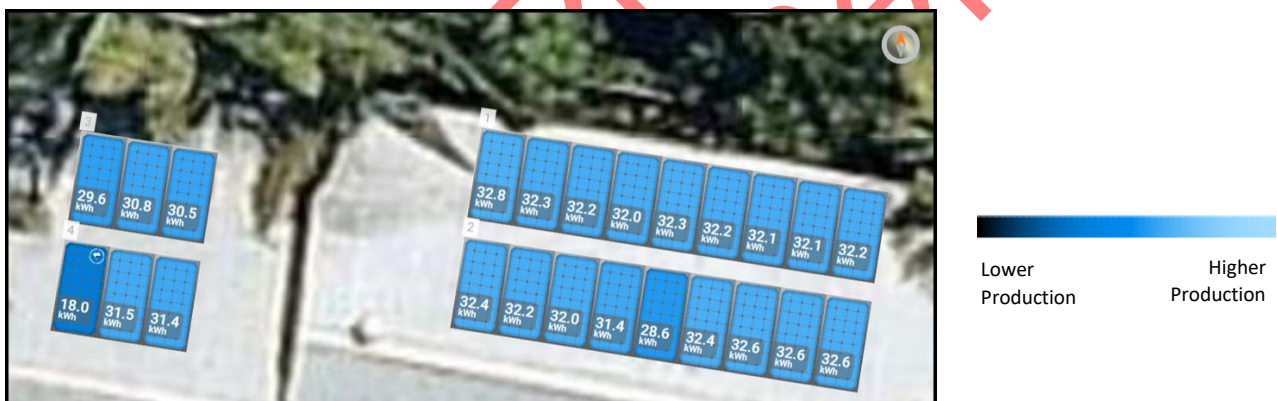


Monthly energy comparison report



Last 30-day average production

The illustration below provides the energy produced per panel over the last 30 days.



*Decreased production can be due to a number of reasons including shading (due to foliage), dust, snow etc.

Health report

Current Health of the System is **98%**

This section summarizes the status and health of your solar installation.



* Scale representation of issues found and captured in the **Resolution and details** column on the next page.

Component type	Health meter*	Resolution and details
Inverter Health		X out of Y are functioning normal. Faulty units to be replaced under warranty.
Enphase Storage System Health		The system is operating as expected. No issues found.
Communication (Envoy)		Microinverters are reporting fairly with the Envoy. However, communication is noisy which might be due to electrical interference present at the site.
Enlighten monitoring system		No Action Required
Metering		
Production		No Action Required
Consumption		No Action Required
Software Version (Envoy-S-Metered-NA)		Will be upgraded as part of follow up by CS team.

of issues found and captured in Resolution and details column.

 Working normally/Latest version  Attention Needed

PV module	Degradation factor
Trina Solar TSM-255-PA05*	0.05%

*Information obtained from Enlighten

Device replacement history

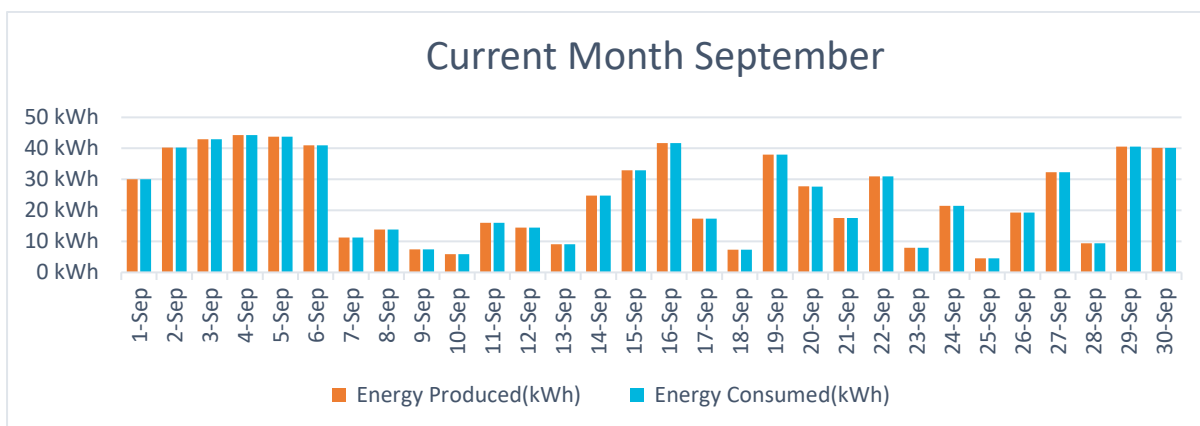
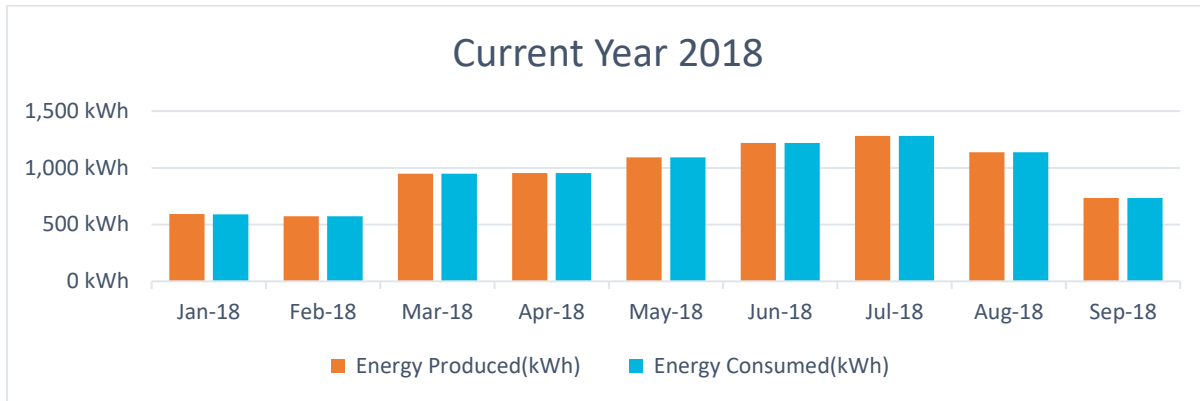
Failed component	Number of failures	Replacement date*
Inverter	7	4/13/2018
Envoy	0	-
Enphase Storage System	-	-
Consumption/Production CTs	-	-

*Replacement Date equals shipment date for the most recently failed device

Production and consumption details

This section provides further details on your system's power production and consumption. The two charts below provide a view for your production and consumption across two different periods – the current year and the current month.

If you do not have consumption monitoring enabled, you will only be able to see the production patterns.



Maximum Produced/day = 44kWh

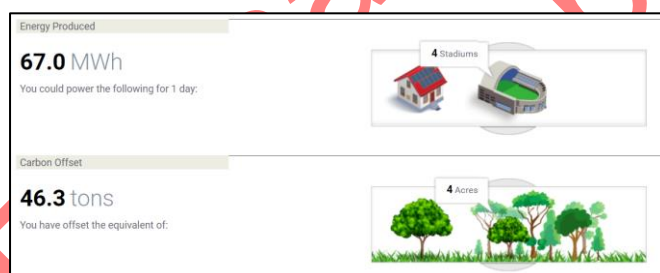
Maximum Consumed/day = 44kWh

Total Produced (Sept) = 675kWh

Total Consumed (Sept) = 675kWh

Self-Consumption (Sept) = 100%

Note: It is typical to see changes in the pattern over time due to solar panel degradation or additional shading due to the overhead growth of trees, dust, snow etc. The environmental impact is illustrated in the image below.



Calculations based on the [U.S. EPA Clean Energy Equivalencies Calculator](#)

Economic value of your system

This section provides an estimate of the economic impact of your solar installation based on the average utility rates in your state. Please note that the actual impact will vary based on your specific rate schedule.

Year – 2018

Production

$$\boxed{P} \times \boxed{ER} = \$954.71$$

Consumption

$$\boxed{C} \times \boxed{ER} = \$964.66$$

Note: This calculation is based on average electricity rate in your state =

18.92 cents/KWh*

*Source = Table 5.6.B [Here](#)

Energy Consumption = $\boxed{C}$

Energy Production = $\boxed{P}$

Avg. Electricity Rate = $\boxed{ER}$

Note: These are Sample calculations. Actual data will change from site to site

Your system's equipment listing & warranty information

This section provides details about the various Enphase devices installed in your system. Please note that warranty here denotes product warranty only.

Microinverters

There is one microinverter per panel.

Serial Number	Microinverter Model	Product Warranty Expiry Date

Envoy

Your system will usually only have one Envoy.

Serial Number	Envoy Model	Warranty Expiry Date

Advanced Metering

The number of CTs may vary from site-site and may range from 1 to 3 each.

Device	Serial Number	Warranty Expiry Date
Production CTs		
Consumption CTs		

MyEnlighten Access

See the status of your solar system down to the individual panel level, run reports, view comparison graphs, access historical data, and interact with [Enphase Customer Support](#) at the touch of a button.

Go to:	https://enlighten.enphaseenergy.com/
Username	
Password	

Enphase Storage System

Batteries may be optionally used to provide backup during times solar production is unavailable, as well as load balancing during peak hours.

Serial Number	Model	Warranty Expiry Date

Appendix

This section provides more details of the health tests provided in this report. The tests are comprised of four sections: production unit check, communication, metering and Enphase storage system.

Production unit check

We check the functioning of each microinverter and identify any microinverters which might be faulty.

Result:

Serial Number	Microinverter Model	Status

Communications

Powerline communications

We check to make sure the microinverters are communicating to the MyEnlighten software via the Envoy using power line communications.

Result: We found the power line communications to be adequate.

Internet link

We check to ensure the Internet link is connected through your home Internet connection or through the Enphase Mobile Connect cellular modem (plan purchased separately).

Result: We found the internet connectivity to be available.

Metering

We investigate the health of the metering system measurement (via production and/or consumption CTs).

Result: The metering measurement system is working.

Enphase Storage System

We check to ensure the Enphase Storage System is communicating with the Envoy and that the system is performing correctly.

Result: System is communicating. Performance is at acceptable levels.