

# Photovoltaic (PV) System Performance

PV System Details	
# PV cells	30
PV system peak	6.5 kW
Power Overview	
Time period	12/10/2020 to 25/10/2020
Power produced	342.0 W
Power imported	11.1 kW
Power stored	17.0 W

## PV system production

In the given time period, the PV system produces 200.37 kWh of total energy, so on average 14.3 kWh per day. The PV system's power peak of 6.5 kW is reached only on 20/10/2020.

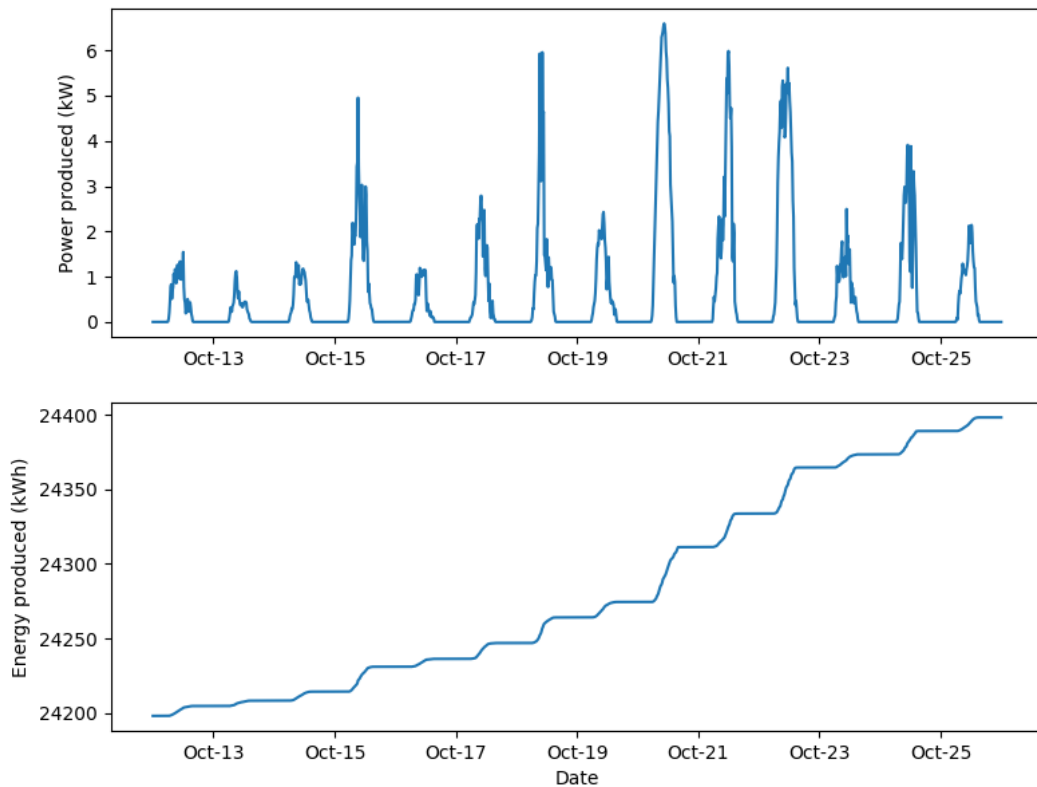


Figure 1: Photovoltaic production 12/10/2020 to 25/10/2020

## Day with best performance: 20/10/2020

On this day, the PV system produces 36.8 kWh of energy, so 157% higher than an average day.

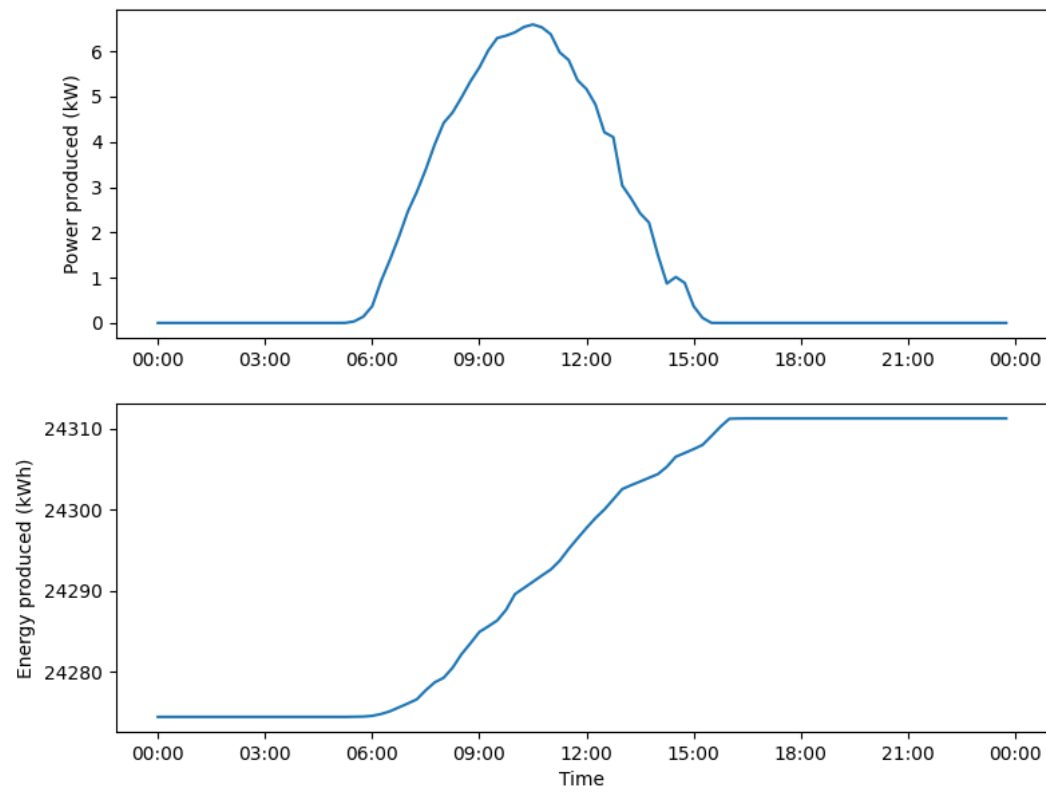


Figure 2: Photovoltaic production on 20/10/2020

## Energy production forecast

The energy production is forecast for the next two days using the relatively simple additive Holt-Winters model (1-dimensional). The green dashed line forecasts a comparatively low future energy production.

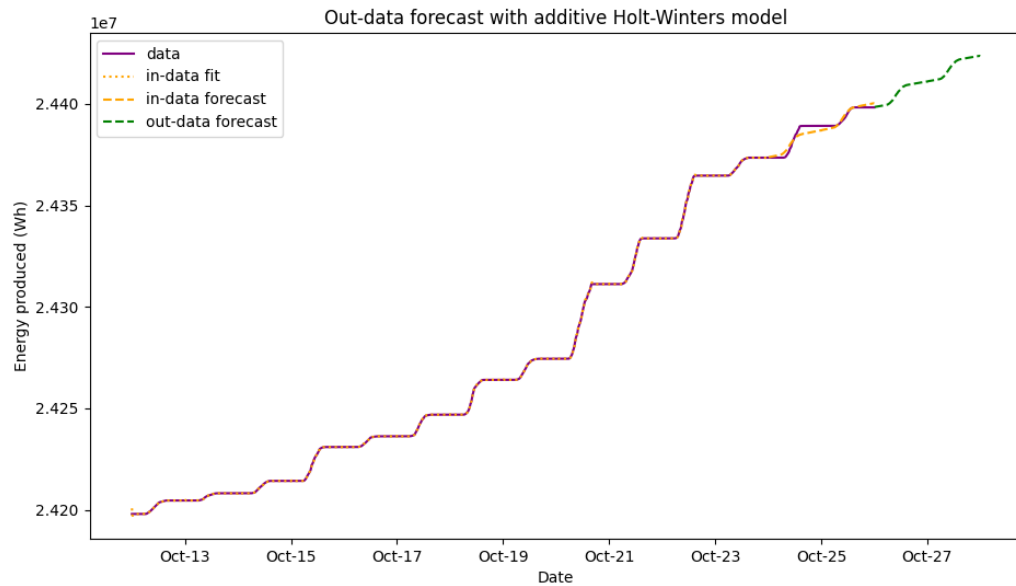


Figure 3: Energy production forecast (green dashed line)