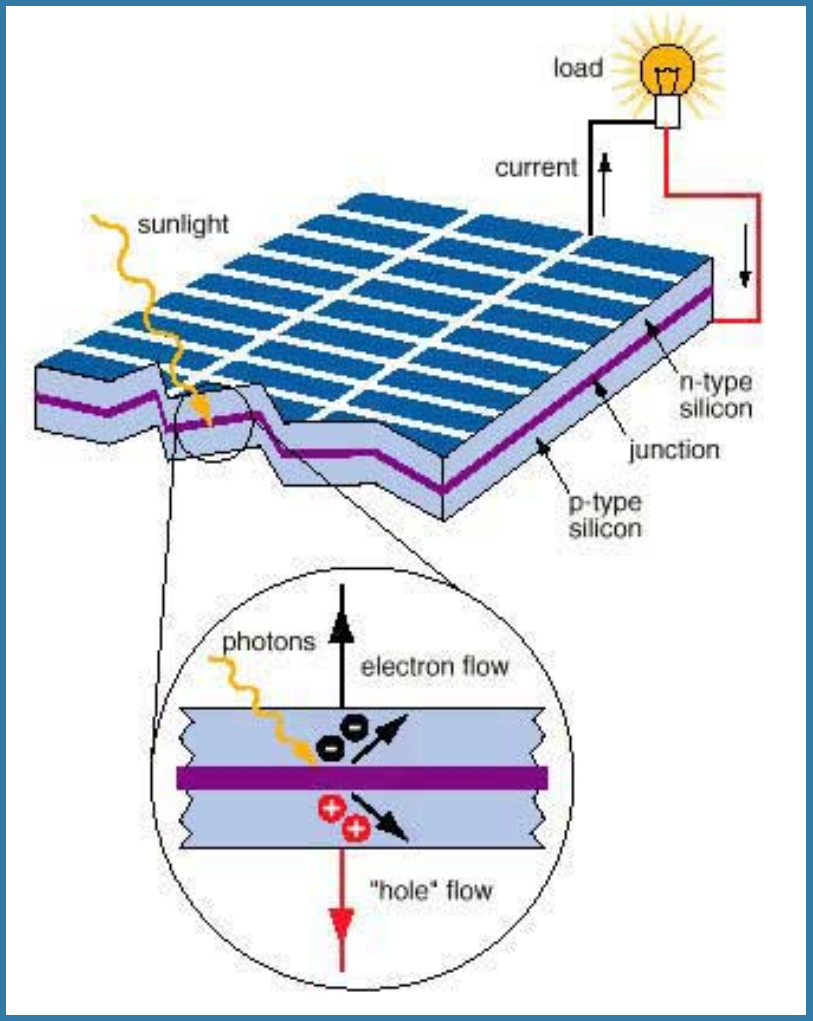
Solar Power Systems

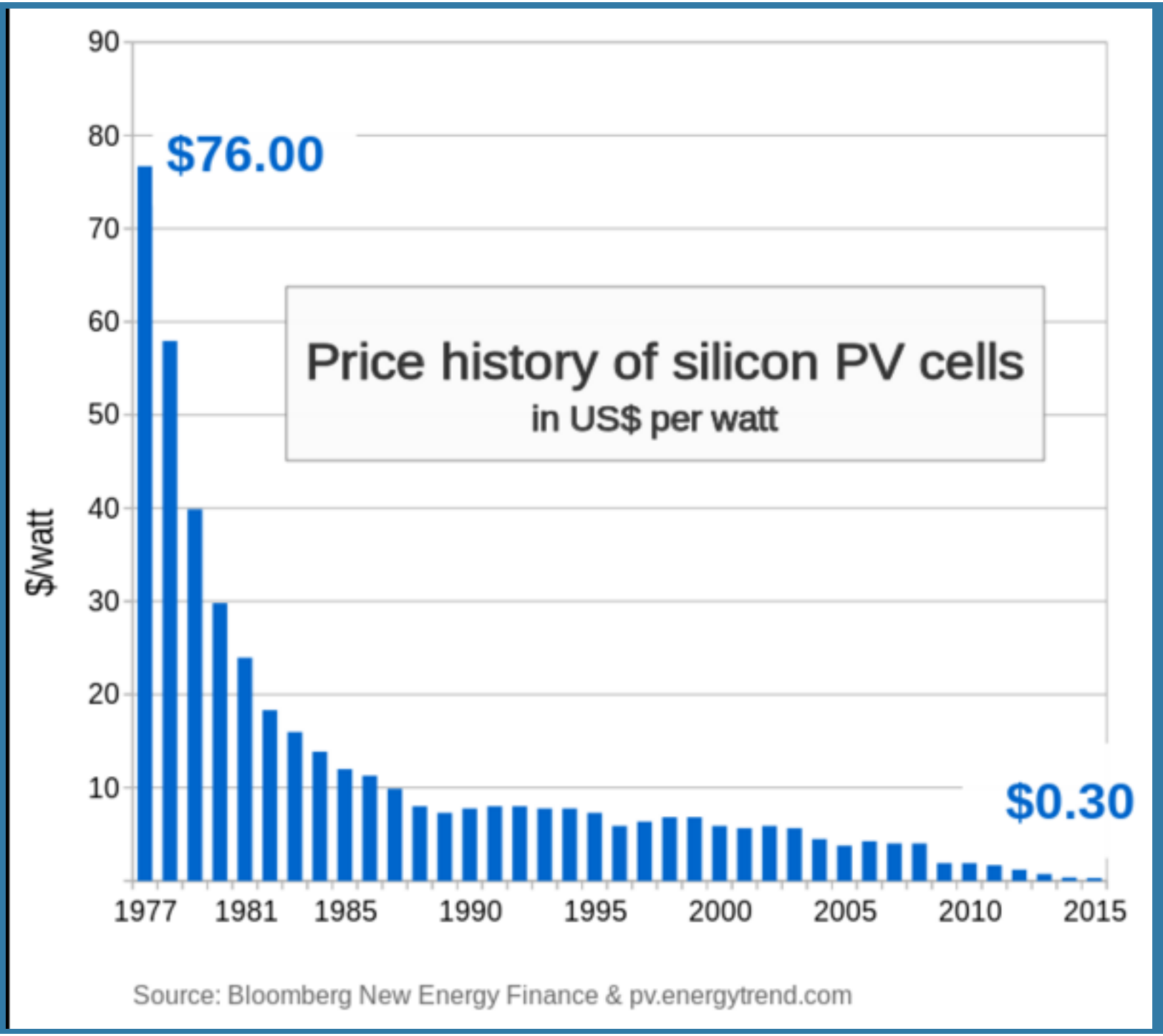
For your Home

Presented by Woody Thompson

Fundy Solar Ltd.

Solar Panels are technically Photovoltaic (PV Modules)

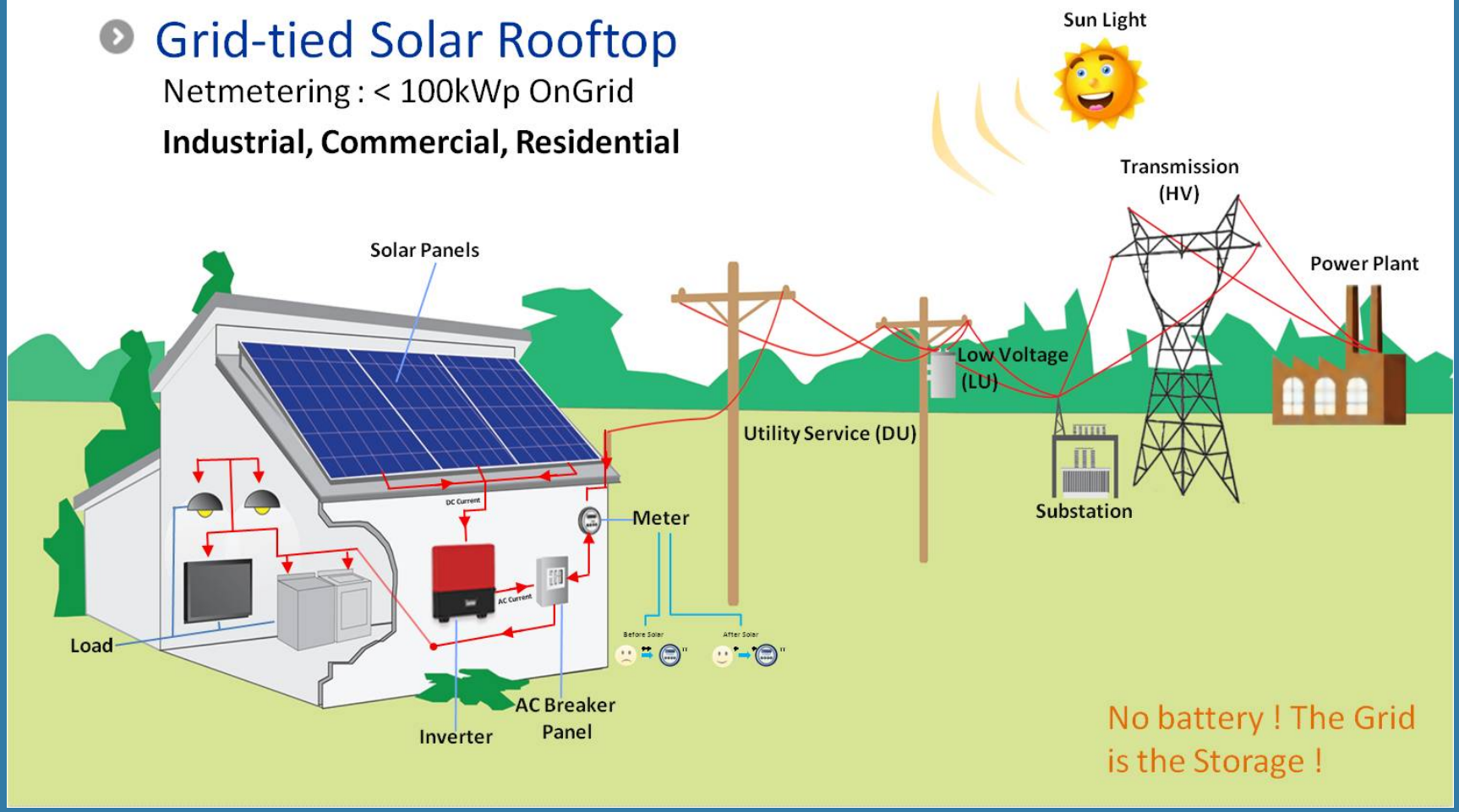


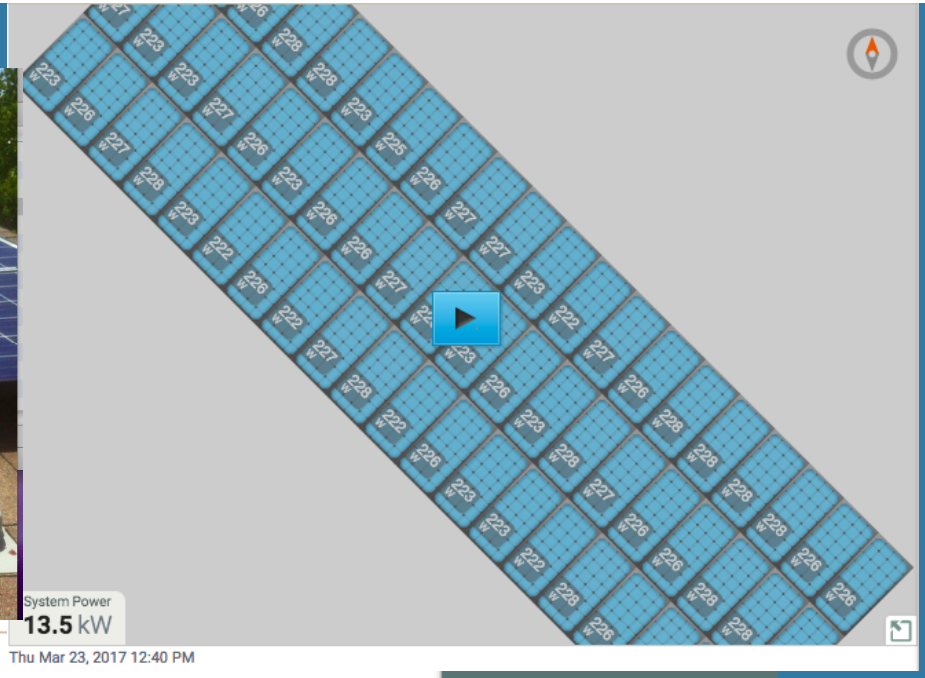

Price history of silicon PV cells
in US$ per watt
$/watt
90
80
70
60
50
40
30
20
10
$76.00
$0.30
1977
1981
1985
1990
1995
2000
2005
2010
2015
Source: Bloomberg New Energy Finance & pv.energytrend.com

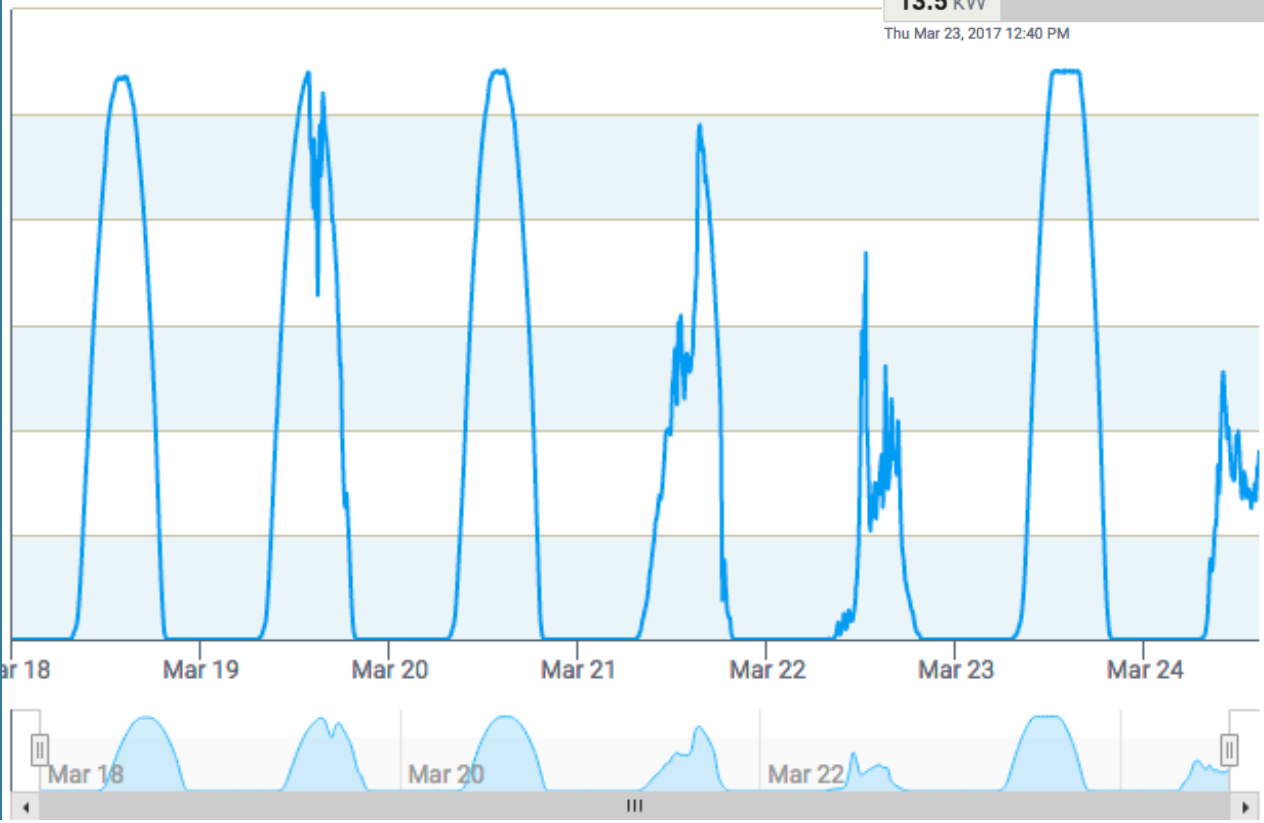
Grid-tied Solar Rooftop

Netmetering : < 100kWp OnGrid

Industrial, Commercial, Residential







Full System

Energy | Status

Today

25.3 kWh

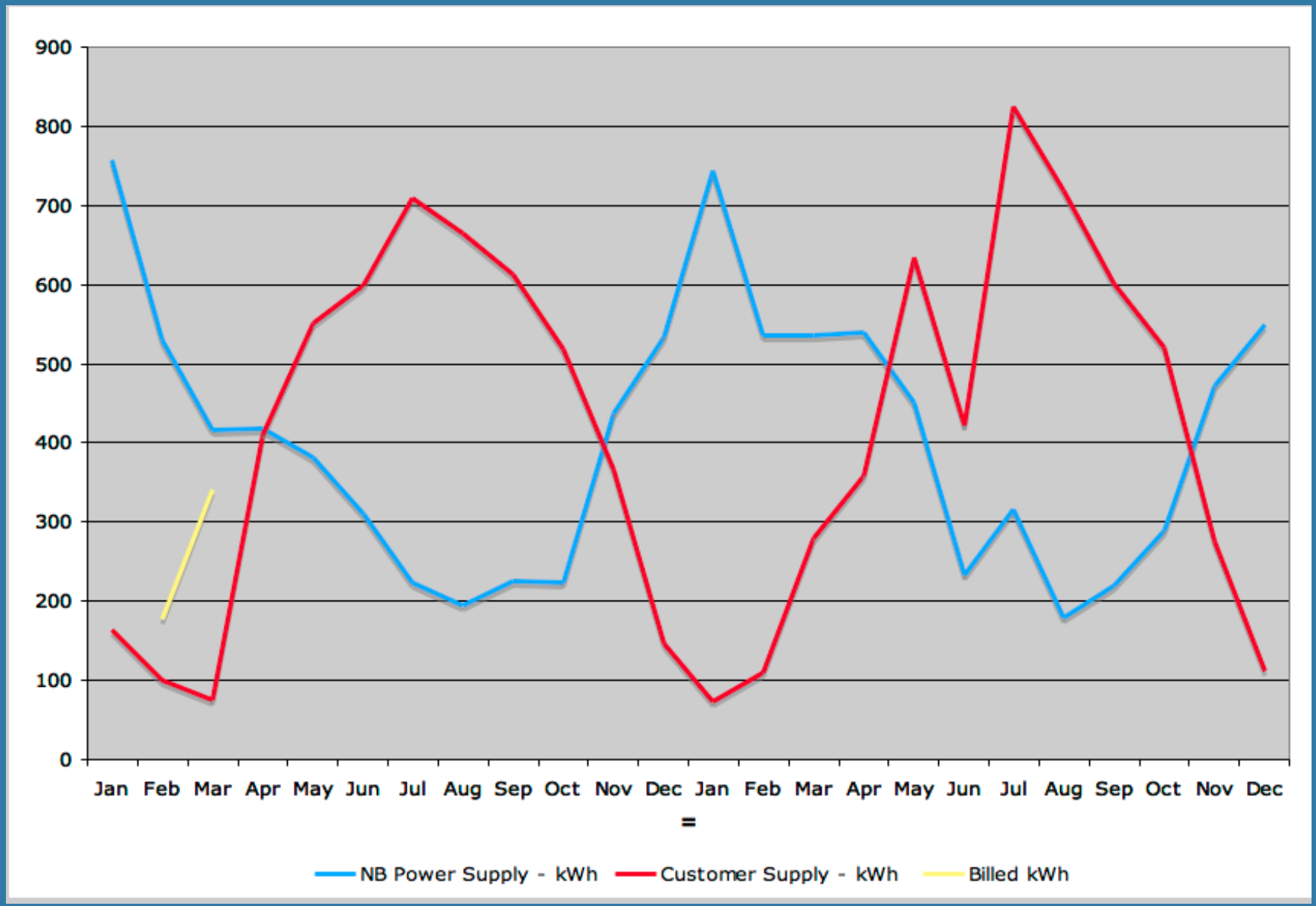
Peak: **6.37** kW at 10:00 AM
Latest: **4.47** kW at 2:35 PM

Past 7 Days

517 kWh

Month To Date

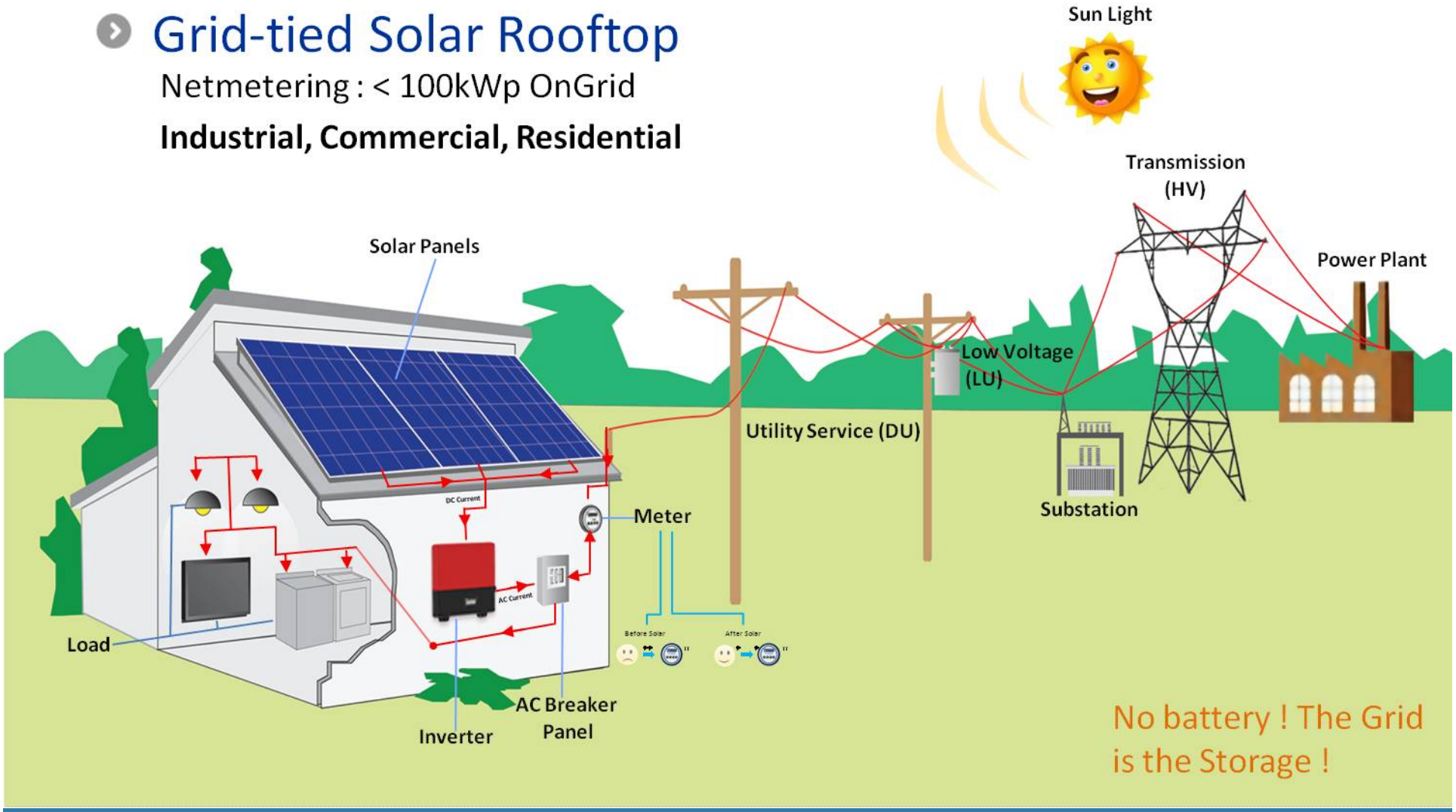
1.48 MWh

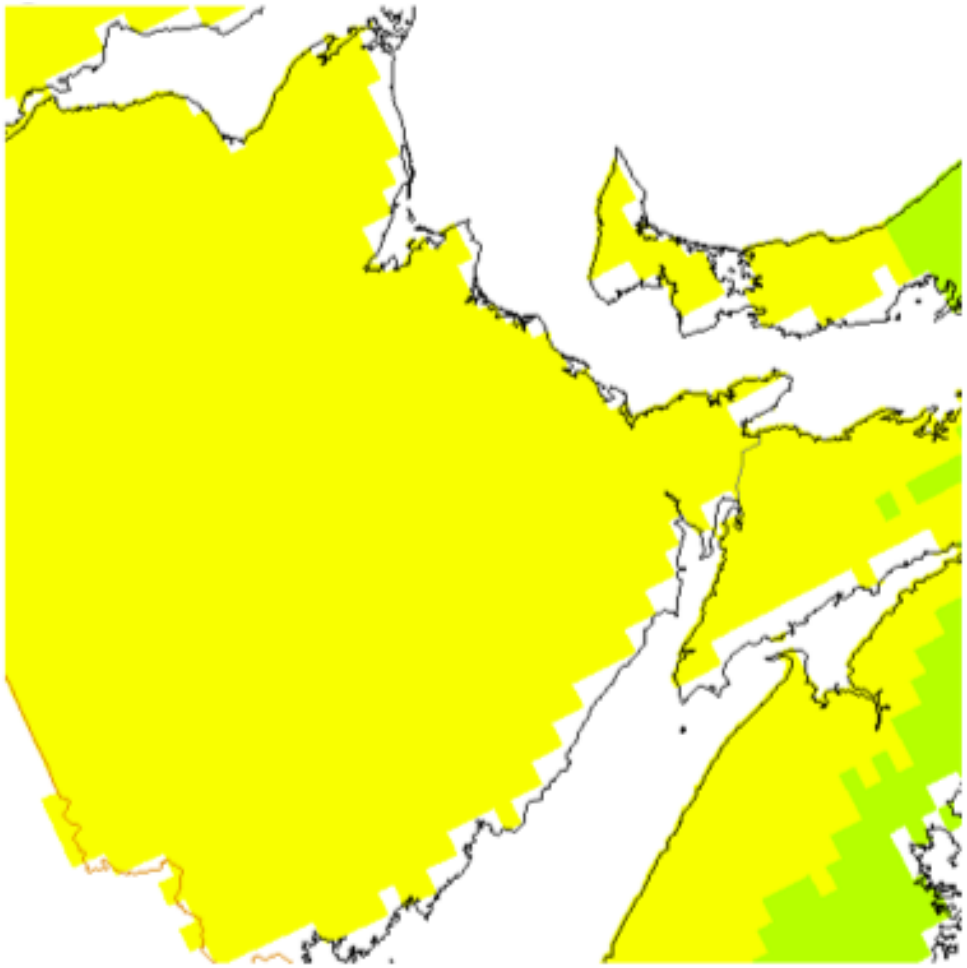

900
800
700
600
500
400
300
200
100
0
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
=
NB Power Supply - kWh
Customer Supply - kWh
Billed kWh

Grid-tied Solar Rooftop

Netmetering : < 100kWp OnGrid

Industrial, Commercial, Residential



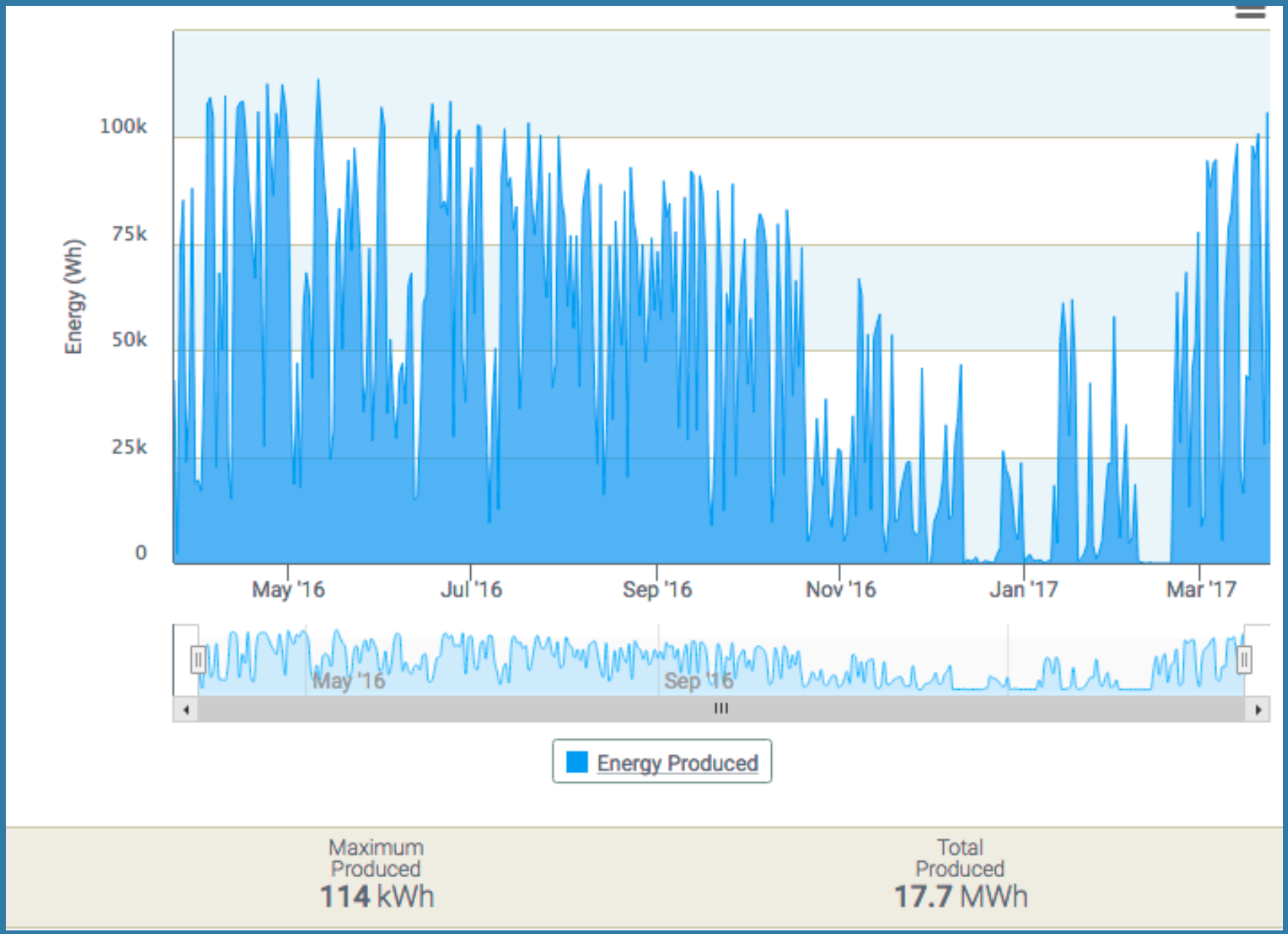


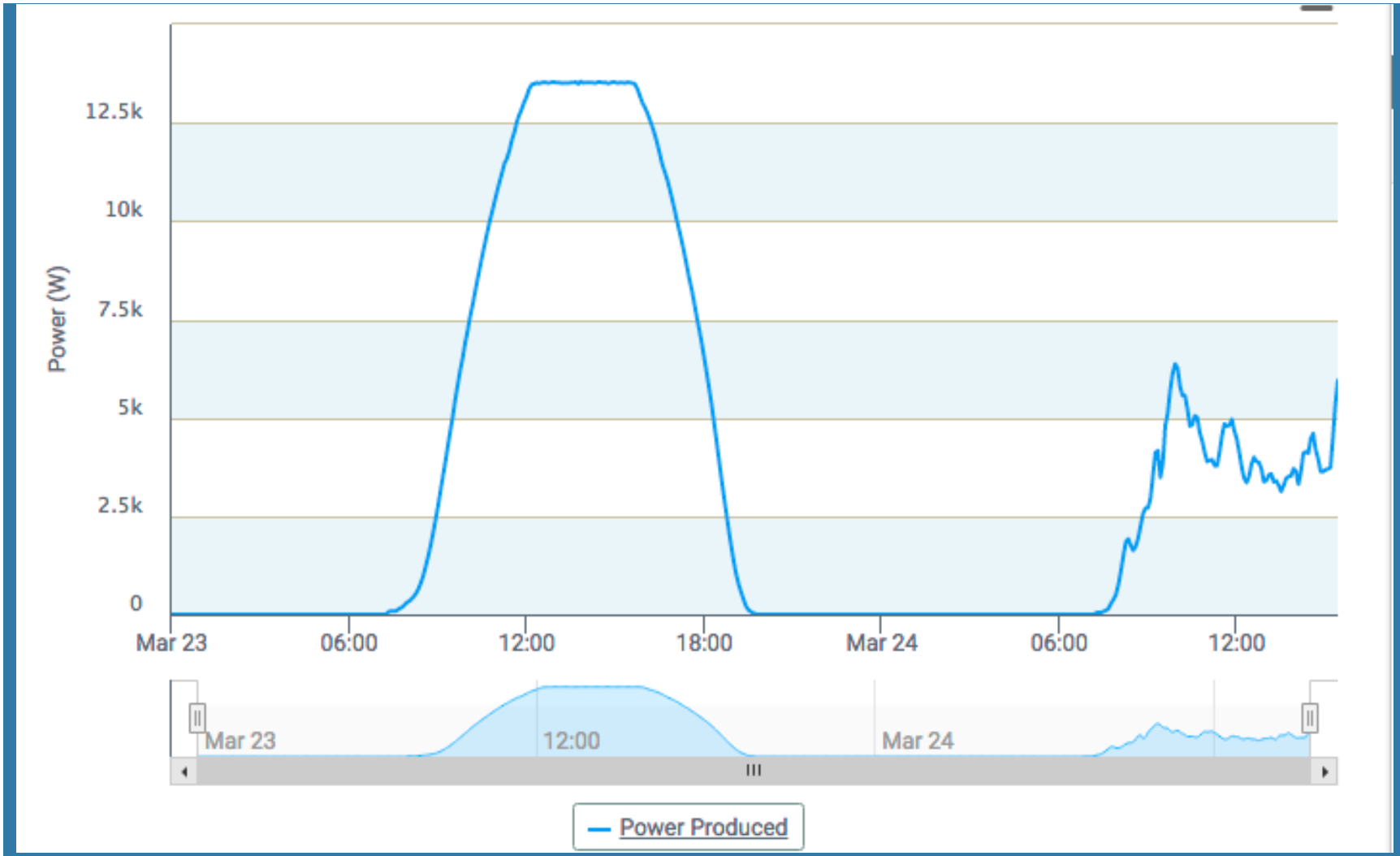
My solar resource Vs energy consumption in my home.

To be NET ZERO:

Annual Energy Consumption = Annual energy generation

APEGNB: 15kW Installed, 17,700 kWh Generated = 11.8kWh/year per kWh installed

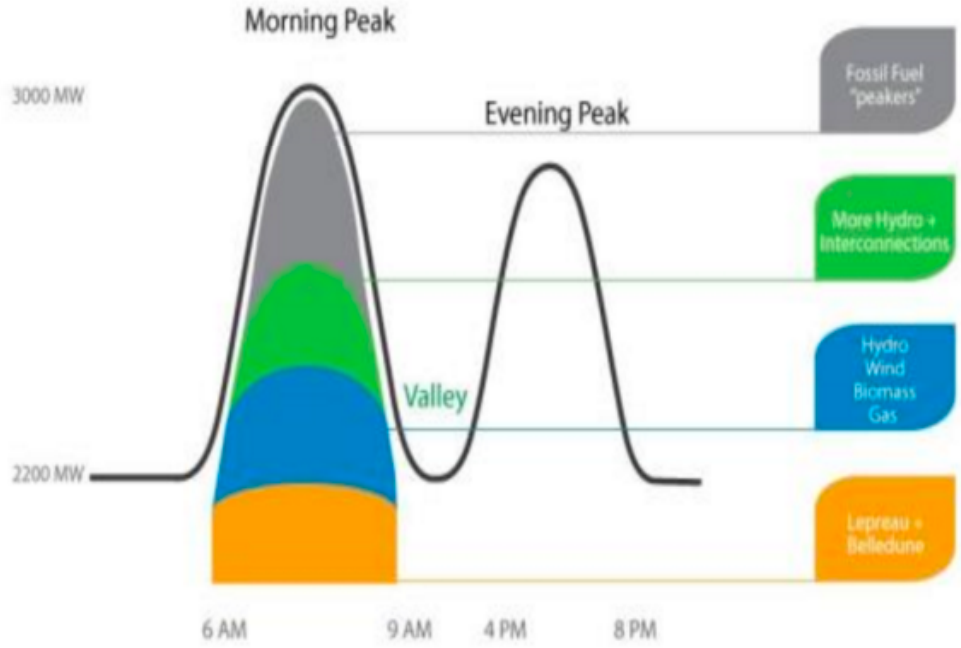



Power (W)
12.5k
10k
7.5k
5k
2.5k
0
Mar 23
06:00
12:00
18:00
Mar 24
06:00
12:00
Mar 23
12:00
Mar 24
Power Produced

NB Power's 10-Year Plan

Fiscal Years

2016 to 2025



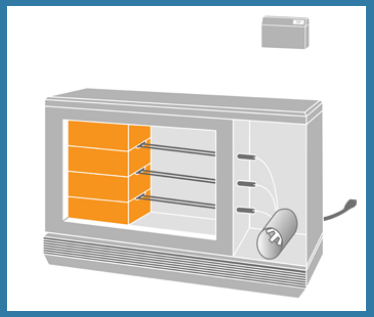
Demand Response

Peak Clipping

Load Shifting

Load Shifting can be accomplished by:

- Activating Thermal Loads during off-peak hours



- Changing energy use patterns

- Charging devices during off-peak hours

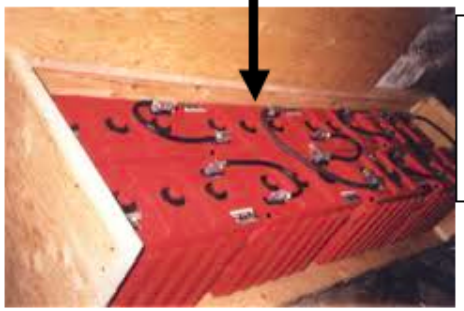
- Shifting Demand

In the event of a power outage the grid tied inverters will continue to energize the sub panel and charge the batteries VIA the inverter.

Power in from Mains

MAGNUM DIMENSIONS

Power out to Loads heating, hot water, electric range…



Power out to Critical Loads Lights, Water, Refrigeration

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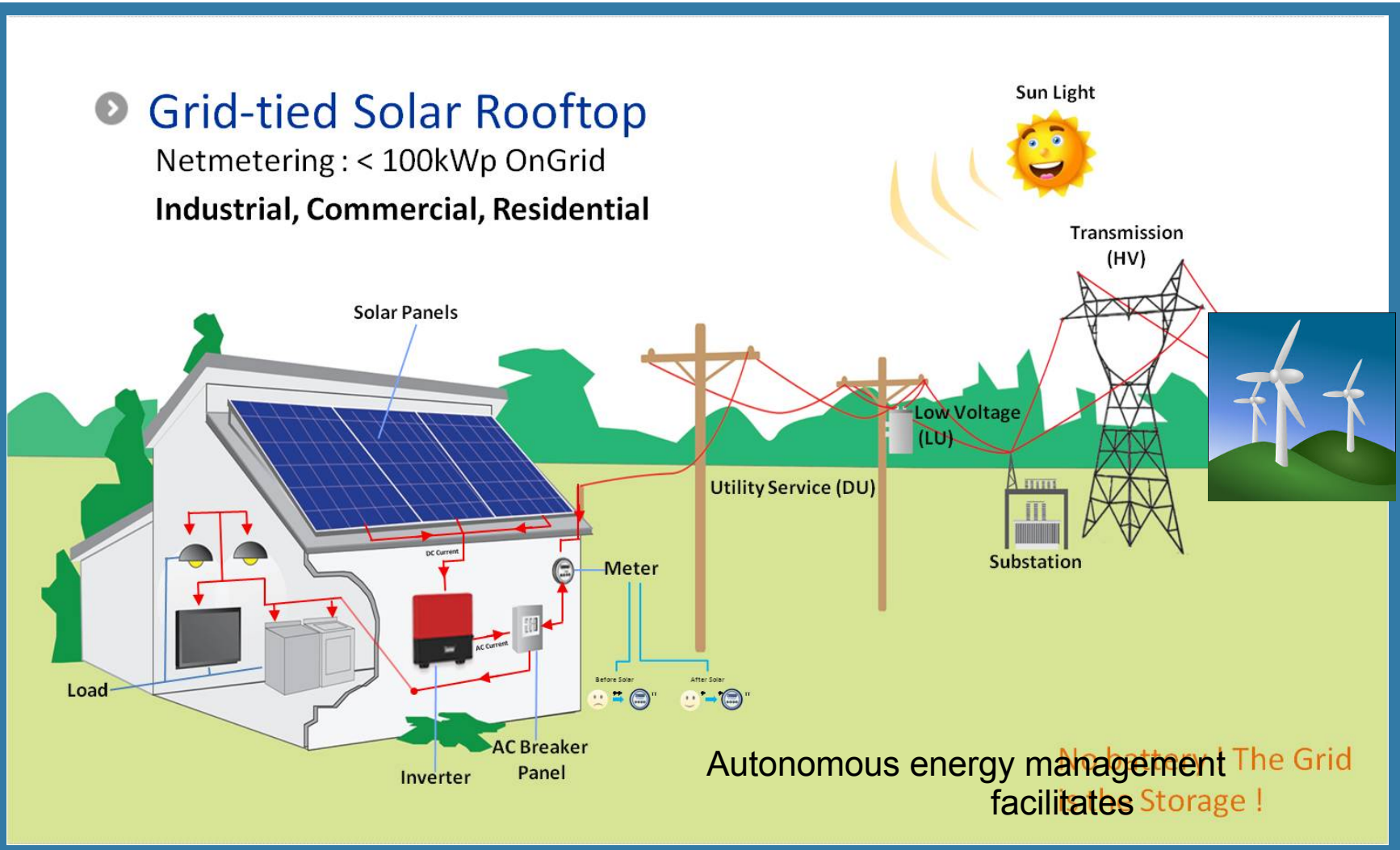

How do we get there from here?

Variable pricing based on energy availability. The market will do the rest.