

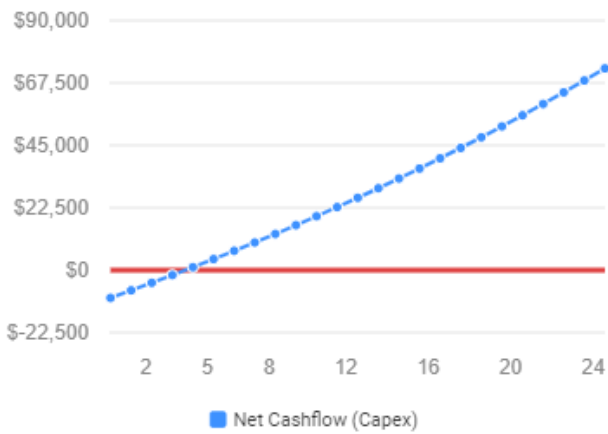
Solar Proof Charts List

Updated 5/8/2019

<p>Cumulative Power Costs (New/Old)</p>	<p>Description</p>
	<p>Shows the overall cost of power purchased from the grid before getting solar and after the input system is installed over the lifetime of the solar system.</p>
<p>Year On Year Power Costs (New/Old)</p>	<p>Description</p>
	<p>Shows the cost of power purchased from the grid in each given year over the lifetime of the solar system both before and after the system is installed.</p>
<p>Net Cashflow Charts >> Cumulative Net Cashflow (Capex VS Finance)</p>	<p>Description</p>
	<p>Shows the cumulative financial position over 25 years for the cases where the system is purchased outright (CAPEX) and if it is financed using the inputs provided by the user.</p>

Net Cashflow Charts >> Cumulative Net Cashflow (Capex)

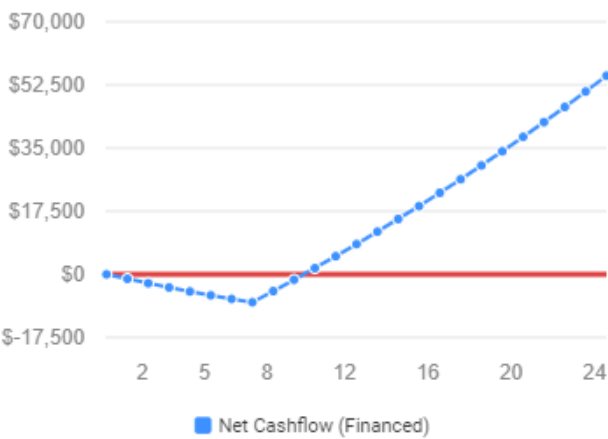
Description



Shows the cumulative financial position over 25 years for the case where the system is purchased outright (CAPEX) using the inputs provided by the user.

Net Cashflow Charts >> Cumulative Net Cashflow (Finance)

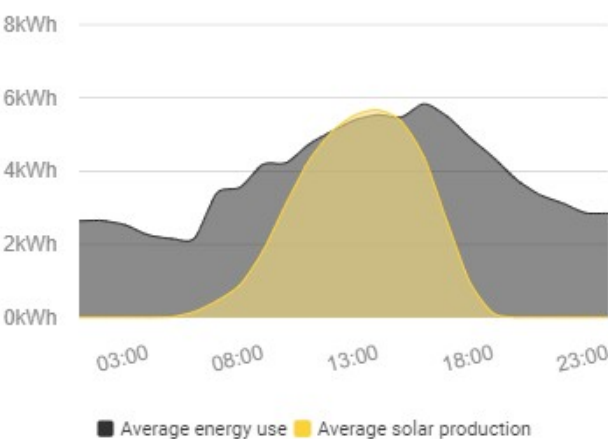
Description



Shows the cumulative financial position over 25 years for the case where the system is financed using the inputs provided by the user.

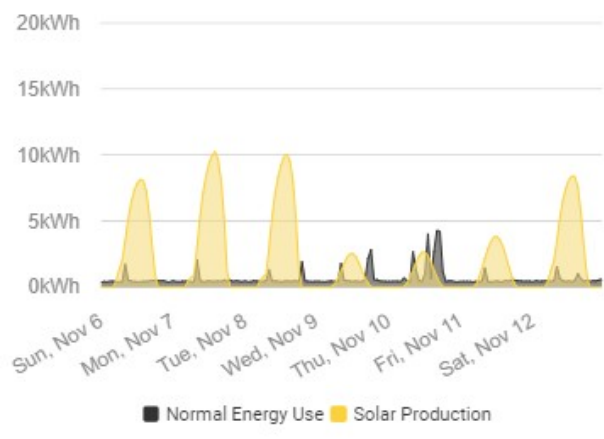
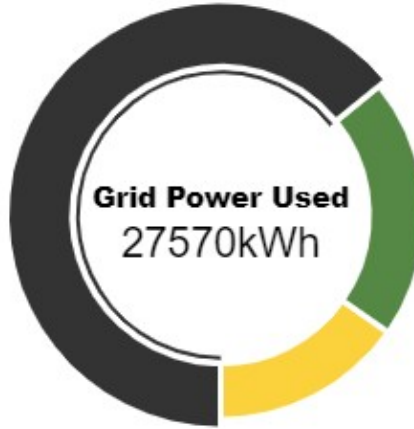
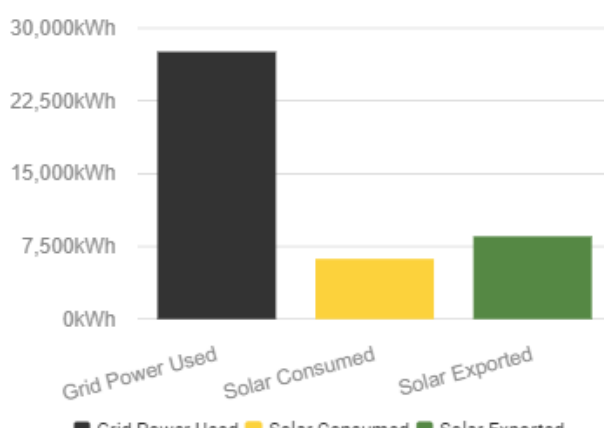
Average Day (Solar/Usage)

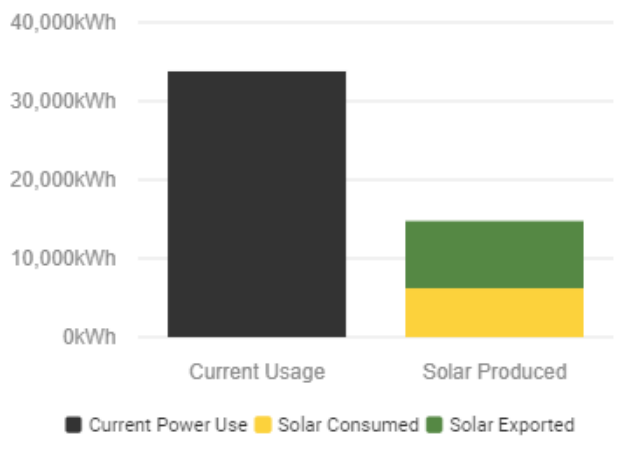
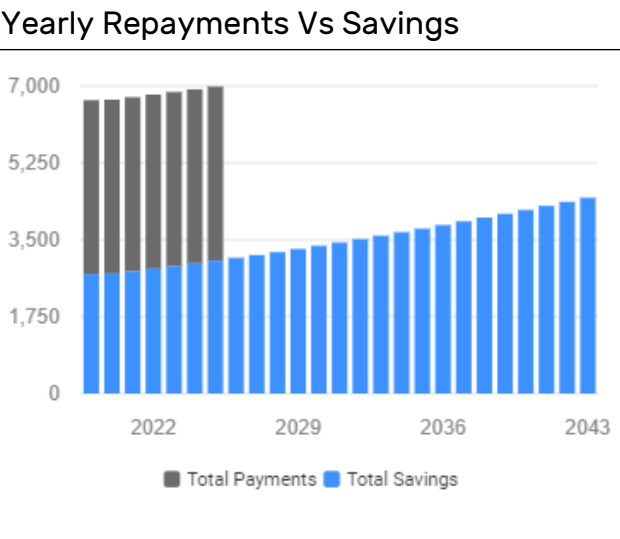
Description



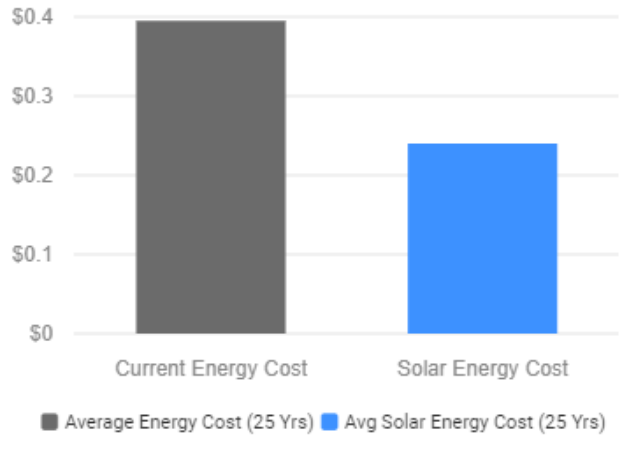
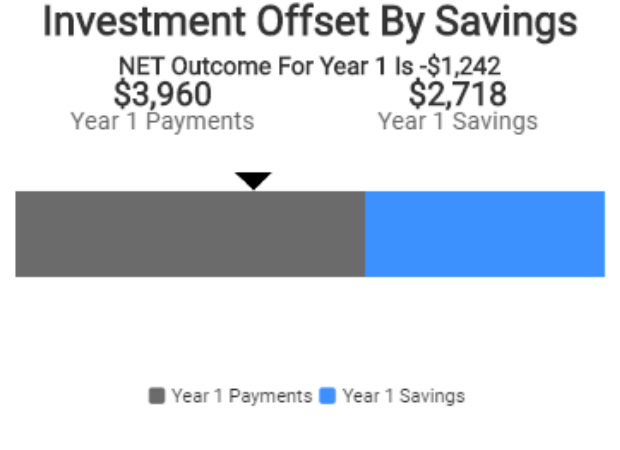
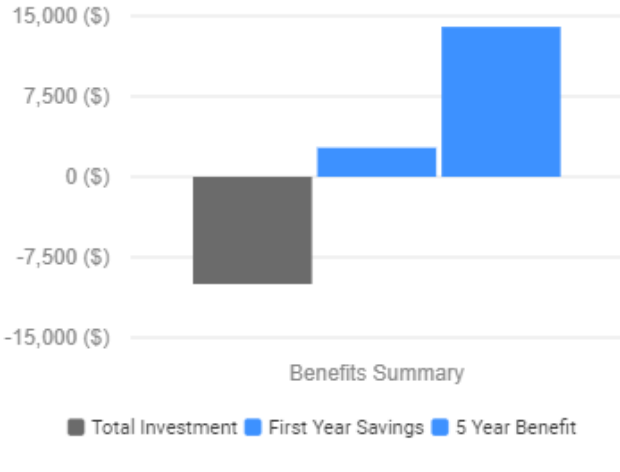
Shows the average values for both solar production and energy consumption over a 24 hour period. Normally the solar production shown in this chart is significantly lower than the peak solar production (ie system size) due to averaging.

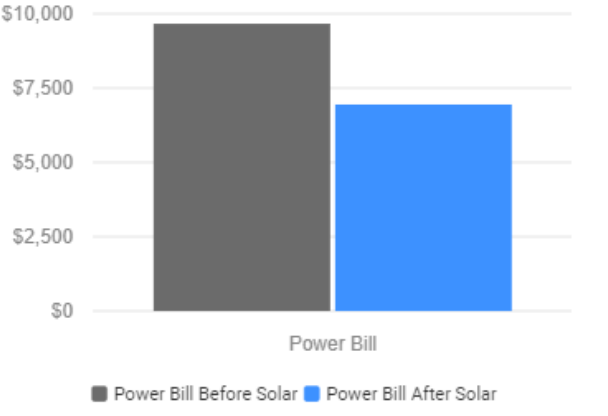
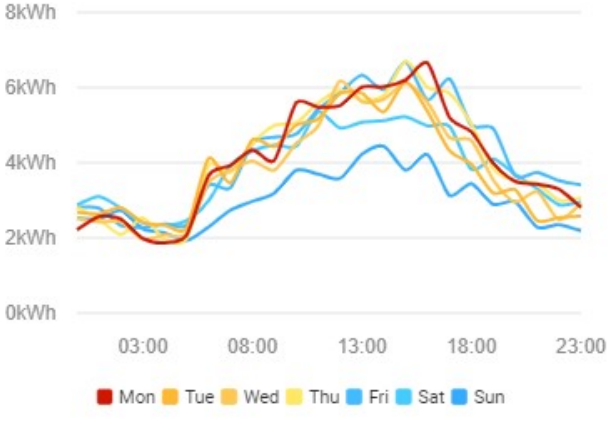
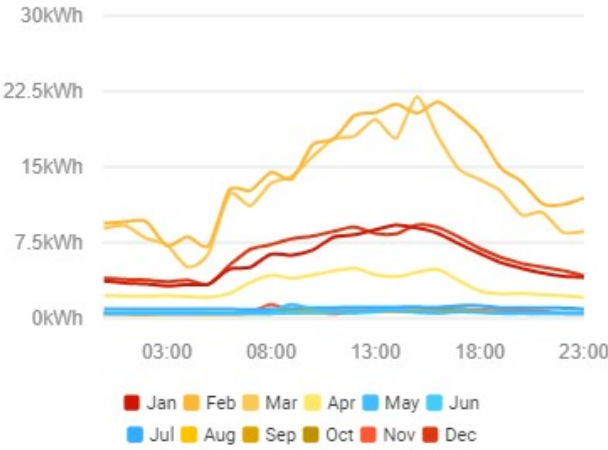
<h3>Typical Consumption Day</h3> <p>8kWh 6kWh 4kWh 2kWh 0kWh</p> <p>Fri, May 19 03:00 Fri, May 19 08:00 Fri, May 19 13:00 Fri, May 19 18:00 Fri, May 19 23:00</p> <p>■ Median day energy use by hour ■ Solar production on median energy use day</p>	<h3>Description</h3> <p>Shows the solar production values and consumption values on a random day which has a production total around the median for all analysed days across the year.</p>
<h3>Monthly Solar Production</h3> <p>2,000kWh 1,500kWh 1,000kWh 500kWh 0kWh</p> <p>Jan Feb Mar Apr May Jun Aug Sep Oct Nov Dec</p> <p>■ Total Solar Production</p>	<h3>Description</h3> <p>Shows the total solar production (kWh) for each month of the year.</p>
<h3>Year On Year Solar Production</h3> <p>20,000kWh 15,000kWh 10,000kWh 5,000kWh 0kWh</p> <p>2021 2028 2035 2042</p> <p>■ Solar Production</p>	<h3>Description</h3> <p>Shows the annual total energy production estimated for each year of the project analysis.</p>

1 Week Solar Balance Charts	Description
 <p>20kWh 15kWh 10kWh 5kWh 0kWh</p> <p>Sun, Nov 6 Mon, Nov 7 Tue, Nov 8 Wed, Nov 9 Thu, Nov 10 Fri, Nov 11 Sat, Nov 12</p> <p>■ Normal Energy Use ■ Solar Production</p>	<p>Shows hourly values (kWh) for both energy usage and solar production over a 1 week period. 4 charts available each 3 months apart to allow different seasons to be shown.</p>
New Energy Mix (Donut)	Description
 <p>Grid Power Used 27570kWh</p> <p>■ Solar Consumed ■ Solar Exported ■ Grid Power Used</p>	<p>Shows the combination of energy used once the solar system is installed. Also providing a picture of how much energy the solar system offsets/exports (yellow/green).</p>
New Energy Mix (Bar)	Description
 <p>30,000kWh 22,500kWh 15,000kWh 7,500kWh 0kWh</p> <p>Grid Power Used Solar Consumed Solar Exported</p> <p>■ Grid Power Used ■ Solar Consumed ■ Solar Exported</p>	<p>Shows the combination of energy used once the solar system is installed. Also providing a picture of how much energy the solar system offsets/exports (yellow/green).</p>

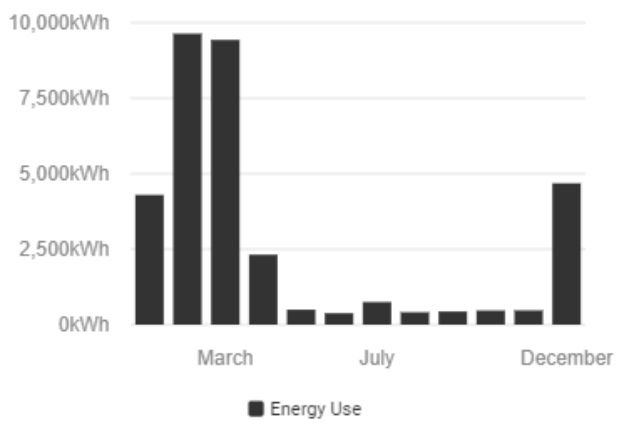
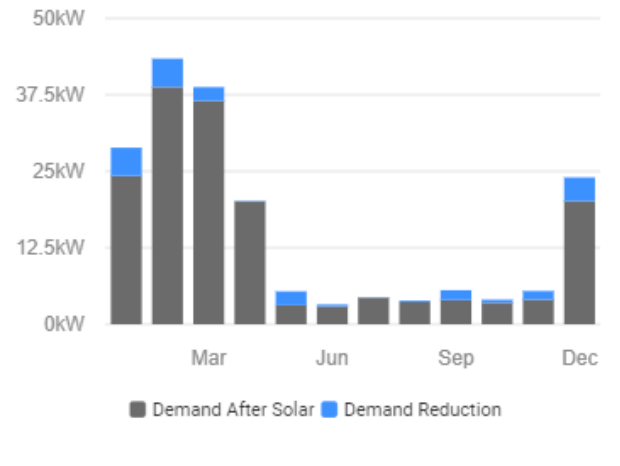
<p>Grid use before & solar production (bar)</p>	<p>Description</p>
 <p>This bar chart compares 'Current Usage' and 'Solar Produced'. The y-axis represents energy in kWh, ranging from 0 to 40,000. 'Current Usage' is a single black bar at approximately 34,000 kWh. 'Solar Produced' is a stacked bar with a yellow base for 'Solar Consumed' (6,000 kWh) and a green top for 'Solar Exported' (9,000 kWh), totaling 15,000 kWh.</p>	<p>Shows a comparison between current energy use (before solar) and total solar energy produced – broken into exported energy and self consumed energy.</p>
<p>Yearly Savings</p>	<p>Description</p>
 <p>This bar chart shows 'Solar Savings' (blue) and 'Repayments' (grey) from 2021 to 2042. The y-axis is in dollars, from \$0 to \$5,000. Repayments are constant at approximately \$3,000 per year from 2021 to 2027. Solar Savings start at about \$2,600 in 2021 and increase steadily to about \$4,000 by 2042. Repayments reach \$0 by 2028.</p>	<p>Shows the estimated savings for each year of the solar system’s lifetime. Will also show finance repayments if the project is finance-enabled.</p>
<p>Yearly Repayments Vs Savings</p>	<p>Description</p>
 <p>This stacked bar chart shows 'Total Payments' (grey) and 'Total Savings' (blue) from 2022 to 2043. The y-axis is in dollars, from 0 to 7,000. Total Payments are constant at approximately \$6,800 per year from 2022 to 2027. Total Savings start at about \$2,000 in 2022 and increase to about \$4,000 by 2043. Total Payments reach \$0 by 2028.</p>	<p>Shows the annual finance repayments stacked on top of the total annual savings over the life of the solar system.</p>

<p>Return On Investment</p> <p>Your Return On Investment</p> <p>■ 2019 ■ 2020 ■ 2021 ■ 2022</p>	<p>Description</p> <p>Indicates the year in which the payback \$ amount is reached to Return the initial customer Investment amount (red line indicates dollar amount to be reached).</p>
<p>Payback Period</p> <p>■ Payback Period ■ Remaining Lifetime of Savings</p>	<p>Description</p> <p>Shows over the 25 year solar system lifetime how much of the time is spent paying back the initial investment compared with reaping real financial benefits.</p>
<p>Cashflow (Capex)</p> <p>Investment Offset By Savings</p> <p>NET Outcome For Year 1 Is -\$7,282</p> <p>\$10,000 \$2,718</p> <p>Year 1 Payments Year 1 Savings</p> <p>■ Year 1 Investment Amount ■ Year 1 Savings</p>	<p>Description</p> <p>Indicates the instant cashflow position reached when the investment is funded via capex (upfront payment).</p>

25 Year Cost of Power Comparison (Average)	Description						
 <p>A bar chart comparing two energy costs over a 25-year period. The y-axis represents cost in dollars, ranging from \$0 to \$0.4 in increments of \$0.1. The x-axis has two categories: 'Current Energy Cost' and 'Solar Energy Cost'. The 'Current Energy Cost' bar is dark grey and reaches approximately \$0.39. The 'Solar Energy Cost' bar is blue and reaches approximately \$0.24. A legend at the bottom identifies the bars as 'Average Energy Cost (25 Yrs)' (dark grey) and 'Avg Solar Energy Cost (25 Yrs)' (blue).</p> <table border="1"> <thead> <tr> <th>Category</th> <th>Cost (25 Yrs)</th> </tr> </thead> <tbody> <tr> <td>Current Energy Cost</td> <td>~\$0.39</td> </tr> <tr> <td>Solar Energy Cost</td> <td>~\$0.24</td> </tr> </tbody> </table>	Category	Cost (25 Yrs)	Current Energy Cost	~\$0.39	Solar Energy Cost	~\$0.24	Shows the difference in average power price from the grid and the average kWh price of solar energy given the inputs provided.
Category	Cost (25 Yrs)						
Current Energy Cost	~\$0.39						
Solar Energy Cost	~\$0.24						
Cashflow (Finance)	Description						
 <p>A horizontal bar chart titled 'Investment Offset By Savings'. It shows two bars: a dark grey bar for 'Year 1 Payments' valued at \$3,960 and a blue bar for 'Year 1 Savings' valued at \$2,718. The net outcome for Year 1 is -\$1,242, indicated by a downward-pointing triangle above the bars. A legend at the bottom identifies the bars as 'Year 1 Payments' (dark grey) and 'Year 1 Savings' (blue).</p> <p>Investment Offset By Savings NET Outcome For Year 1 Is -\$1,242 \$3,960 \$2,718 Year 1 Payments Year 1 Savings</p>	Indicates the instant position reached when the investment of the solar is financed (in year 1).						
Benefit Summary	Description						
 <p>A waterfall chart titled 'Benefits Summary' showing financial flows. The y-axis represents dollar amounts from -\$15,000 to \$15,000 in \$2,500 increments. The x-axis is labeled 'Benefits Summary'. There are three bars: a dark grey bar for 'Total Investment' at approximately -\$9,000, a blue bar for 'First Year Savings' at approximately \$2,000, and another blue bar for '5 Year Benefit' at approximately \$12,000. A legend at the bottom identifies the bars as 'Total Investment' (dark grey), 'First Year Savings' (blue), and '5 Year Benefit' (blue).</p>	Shows the initial investment as a negative and the first year and 5 year investments respectively as positives to give a short-term summary.						

Power Bill	Description
 <p>A bar chart titled 'Power Bill' comparing the cost before and after solar installation. The y-axis represents the amount in dollars, ranging from \$0 to \$10,000 in increments of \$2,500. The 'Power Bill Before Solar' is represented by a dark grey bar at approximately \$9,500. The 'Power Bill After Solar' is represented by a blue bar at approximately \$7,000. A legend at the bottom identifies the two bars.</p>	<p>Shows the power bill before and after the solar system has been installed and the benefits have been realised.</p>
Consumption: Weekly Averages	Description
 <p>A line chart showing hourly energy consumption in kWh for each day of the week. The y-axis ranges from 0kWh to 8kWh in increments of 2kWh. The x-axis shows time from 03:00 to 23:00 in 5-hour increments. Seven lines represent the days: Mon (red), Tue (orange), Wed (yellow), Thu (light blue), Fri (medium blue), Sat (light blue), and Sun (dark blue). Consumption peaks between 13:00 and 18:00, with Monday showing the highest peak at approximately 6.5 kWh.</p>	<p>Shows energy usage as an hourly average by day of the week (Mon – Sun).</p>
Consumption: Monthly Averages	Description
 <p>A line chart showing hourly energy consumption in kWh for each month of the year. The y-axis ranges from 0kWh to 30kWh in increments of 7.5kWh. The x-axis shows time from 03:00 to 23:00 in 5-hour increments. Twelve lines represent the months: Jan (red), Feb (orange), Mar (yellow), Apr (light blue), May (medium blue), Jun (light blue), Jul (dark blue), Aug (yellow), Sep (orange), Oct (red), Nov (dark red), and Dec (red). Consumption peaks between 13:00 and 18:00, with March showing the highest peak at approximately 22.5 kWh.</p>	<p>Shows energy usage as an hourly average by month of the year (Jan – Dec).</p>

Consumption: Seasonal Averages	Description
	Shows energy usage as an hourly average by season.
1 Year Daily Energy Use	Description
	Shows the energy use before solar as a plot of daily totals across the year.
1 Week Hourly Energy Use	Description
	Shows one week of hourly energy use from the start of the dataset. The red line indicates the annual demand point (highest usage) reached.

1 Year Monthly Energy Use	Description																																																				
 <p>A bar chart showing monthly energy use in kWh. The y-axis is labeled from 0kWh to 10,000kWh in increments of 2,500kWh. The x-axis shows months with labels for March, July, and December. The bars represent energy use before solar. The highest usage is in February (approx. 9,500 kWh) and January (approx. 9,000 kWh). Usage is lowest in June (approx. 500 kWh) and July (approx. 700 kWh).</p> <table border="1"> <caption>Estimated Monthly Energy Use (kWh)</caption> <thead> <tr> <th>Month</th> <th>Energy Use (kWh)</th> </tr> </thead> <tbody> <tr><td>Jan</td><td>9,000</td></tr> <tr><td>Feb</td><td>9,500</td></tr> <tr><td>Mar</td><td>9,000</td></tr> <tr><td>Apr</td><td>2,500</td></tr> <tr><td>May</td><td>700</td></tr> <tr><td>Jun</td><td>500</td></tr> <tr><td>Jul</td><td>700</td></tr> <tr><td>Aug</td><td>500</td></tr> <tr><td>Sep</td><td>500</td></tr> <tr><td>Oct</td><td>500</td></tr> <tr><td>Nov</td><td>500</td></tr> <tr><td>Dec</td><td>4,500</td></tr> </tbody> </table>	Month	Energy Use (kWh)	Jan	9,000	Feb	9,500	Mar	9,000	Apr	2,500	May	700	Jun	500	Jul	700	Aug	500	Sep	500	Oct	500	Nov	500	Dec	4,500	<p>Shows the total energy use (before solar) for each month of the year.</p>																										
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Dec	4,500																																																				
1 Year Monthly Demand Reduction	Description																																																				
 <p>A stacked bar chart showing monthly demand reduction in kW. The y-axis is labeled from 0kW to 50kW in increments of 12.5kW. The x-axis shows months with labels for Mar, Jun, Sep, and Dec. The bars are stacked with 'Demand After Solar' (dark grey) at the bottom and 'Demand Reduction' (blue) on top. The total demand before solar is the sum of both. The highest total demand is in February (approx. 42 kW), with a reduction of approx. 5 kW. Demand is lowest in June (approx. 5 kW total) and July (approx. 6 kW total).</p> <table border="1"> <caption>Estimated Monthly Demand (kW)</caption> <thead> <tr> <th>Month</th> <th>Demand After Solar (kW)</th> <th>Demand Reduction (kW)</th> <th>Total Demand (kW)</th> </tr> </thead> <tbody> <tr><td>Jan</td><td>23</td><td>5</td><td>28</td></tr> <tr><td>Feb</td><td>37</td><td>5</td><td>42</td></tr> <tr><td>Mar</td><td>35</td><td>2</td><td>37</td></tr> <tr><td>Apr</td><td>18</td><td>0</td><td>18</td></tr> <tr><td>May</td><td>5</td><td>1</td><td>6</td></tr> <tr><td>Jun</td><td>5</td><td>0</td><td>5</td></tr> <tr><td>Jul</td><td>6</td><td>0</td><td>6</td></tr> <tr><td>Aug</td><td>6</td><td>0</td><td>6</td></tr> <tr><td>Sep</td><td>6</td><td>1</td><td>7</td></tr> <tr><td>Oct</td><td>5</td><td>1</td><td>6</td></tr> <tr><td>Nov</td><td>6</td><td>1</td><td>7</td></tr> <tr><td>Dec</td><td>18</td><td>5</td><td>23</td></tr> </tbody> </table>	Month	Demand After Solar (kW)	Demand Reduction (kW)	Total Demand (kW)	Jan	23	5	28	Feb	37	5	42	Mar	35	2	37	Apr	18	0	18	May	5	1	6	Jun	5	0	5	Jul	6	0	6	Aug	6	0	6	Sep	6	1	7	Oct	5	1	6	Nov	6	1	7	Dec	18	5	23	<p>Shows the total kW demand reached before and after the solar system is active for each month of the year.</p>
Month	Demand After Solar (kW)	Demand Reduction (kW)	Total Demand (kW)																																																		
Jan	23	5	28																																																		
Feb	37	5	42																																																		
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