

Recommended System Option

80 % Consumption Offset	\$81,172 Lifetime Electricity Bill Savings	\$66,175 Net Cost of this solar system	\$14,997 Estimated net savings over system lifetime
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Your Solution

Solar Panels

CSI Solar Co Ltd (Canadian Solar)

27.060 kW Total Solar Power

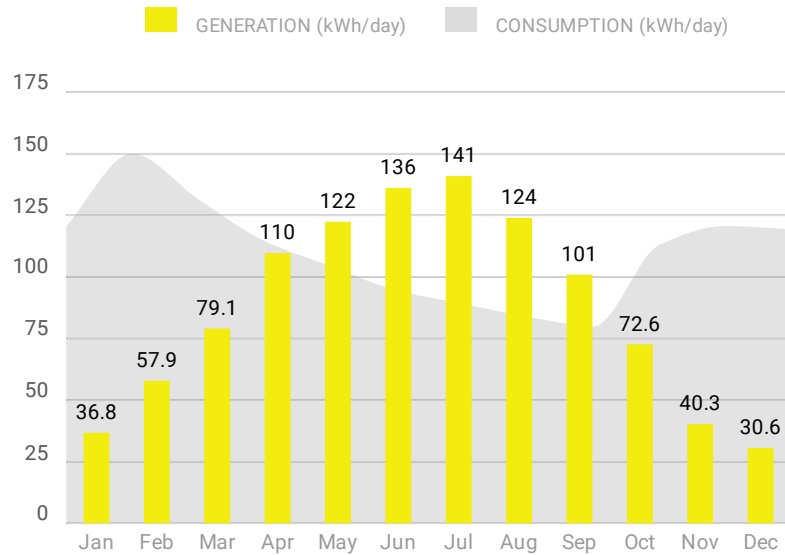
66 x 410 Watt Panels (CS3W-410PB-AG)

32,024 kWh per year

Warranties: 12 Year Panel Product Warranty, 30 Year Panel Performance Warranty

System Performance

80%
Energy From Solar



System Performance Assumptions: System Total losses: 18.5%, Inverter losses: 3.5%, Optimizer losses: 0%, Shading losses: 2.7%, Performance Adjustment: 0%, Output Calculator: System Advisor Model 2020.02.29.r2. Panel Orientations: 32 panels with Azimuth 201 and Slope 21, 34 panels with Azimuth 203 and Slope 10.

Environmental Benefits

Solar has no emissions. It just silently generates pure, clean energy.



Each Year

80%
Of CO₂, SO_x & NO_x

18 tons
Avoided CO₂ per year

Over System Lifetime

328,772
Car miles avoided

3,404
Trees planted

379
Long haul flights avoided


53,121 of Carbon Dioxide (CO₂) equivalent

This is equivalent to greenhouse gas emissions from:

5.2 gasoline-powered passenger vehicles driven for one year 

<<https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#vehicles>>



59,809 miles driven by an average gasoline-powered passenger vehicle 

<<https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#miles>>



This is equivalent to CO₂ emissions from:

2,711 gallons of gasoline consumed 

<<https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#gasoline>>



2,367 gallons of diesel consumed 

<<https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#diesel>>




26,659 pounds of coal burned 


<<https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#lbscoal>>




0.319 **tanker trucks' worth of gasoline**

 <https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#tankers>

**3** **homes' energy use for one year**

 <https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#houseenergy>




4.7 **homes' electricity use for one year**  <https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#houseelec>


**0.133** **railcars' worth of coal burned** 

<https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#railcars>




55.8 **barrels of oil consumed**  <https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#oil>




984 propane cylinders used for home barbeques  [<https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#propane>](https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#propane)




0 coal-fired power plants in one year  [<https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#coalplant>](https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#coalplant)




0.0001 natural gas-fired power plants in one year  [<https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#gasplant>](https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#gasplant)





2,931,004 number of smartphones charged  [<https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#smartphones>](https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#smartphones)







This is equivalent to greenhouse gas emissions avoided by:



8.3 tons of waste recycled instead of landfilled  [<https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#recycle>](https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#recycle)





1.2 **garbage trucks of waste recycled**
instead of landfilled  [<https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#gtrucks>](https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#gtrucks) 

1,043 **trash bags of waste recycled**
instead of landfilled  [<https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#trash>](https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#trash) 


0.007 **wind turbines running for a year**
 [<https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#wind>](https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#wind) 

913 **incandescent lamps switched to**
LEDs  [<https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#lights>](https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#lights) 

This is equivalent to carbon sequestered by:


398 **tree seedlings grown for 10 years**
 [<https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#seedlings>](https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#seedlings) 

28.5 acres of U.S. forests in one year

 <https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#pineforests>



0.163 acres of U.S. forests preserved from conversion to cropland in one year

 <https://epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#deforestation>



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