



SOUTH CHURCH

Solar Panel Report

2013-2018

6 Years of Renewable Electricity

How have we done?

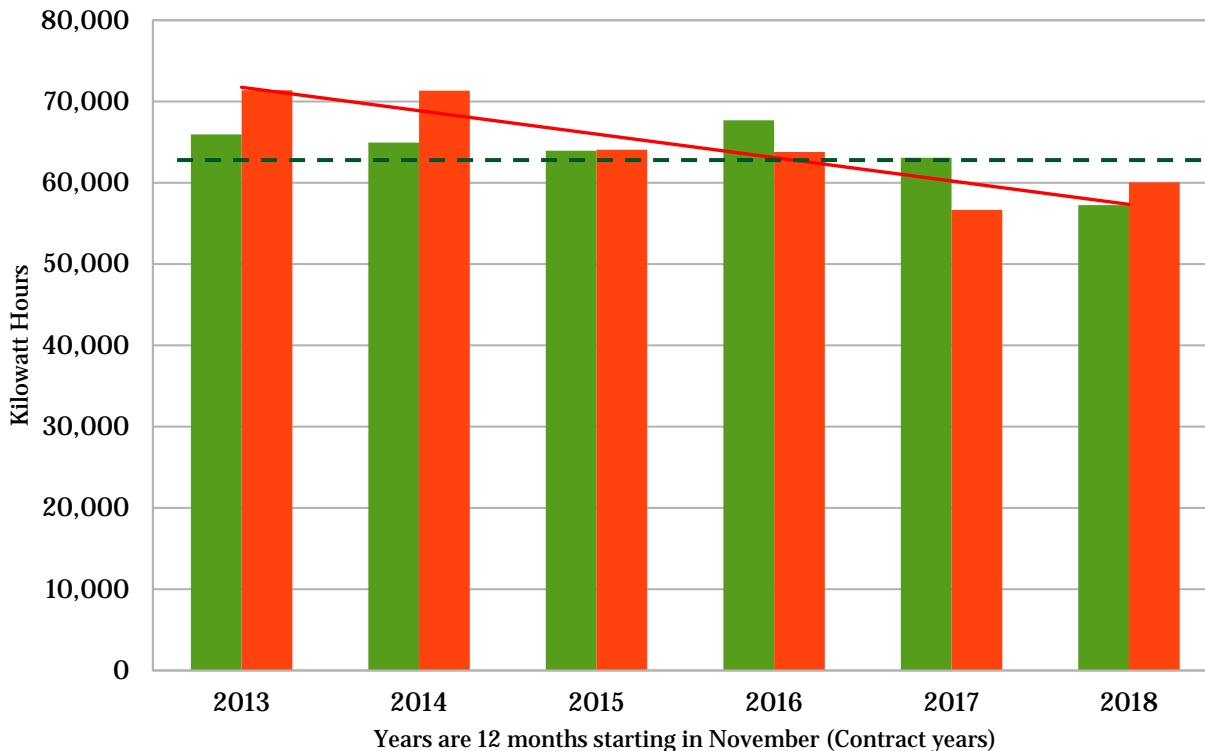
South Church Solar Panel Update

Here's the graph with electricity generation (in green)

Vs. our electricity use (in red)

Now 6 years in service ! (2013-2018)

Solar Electricity Produced and Total Electricity Used



Takeaway
Our solar panels have made our electricity almost completely "carbon-neutral"

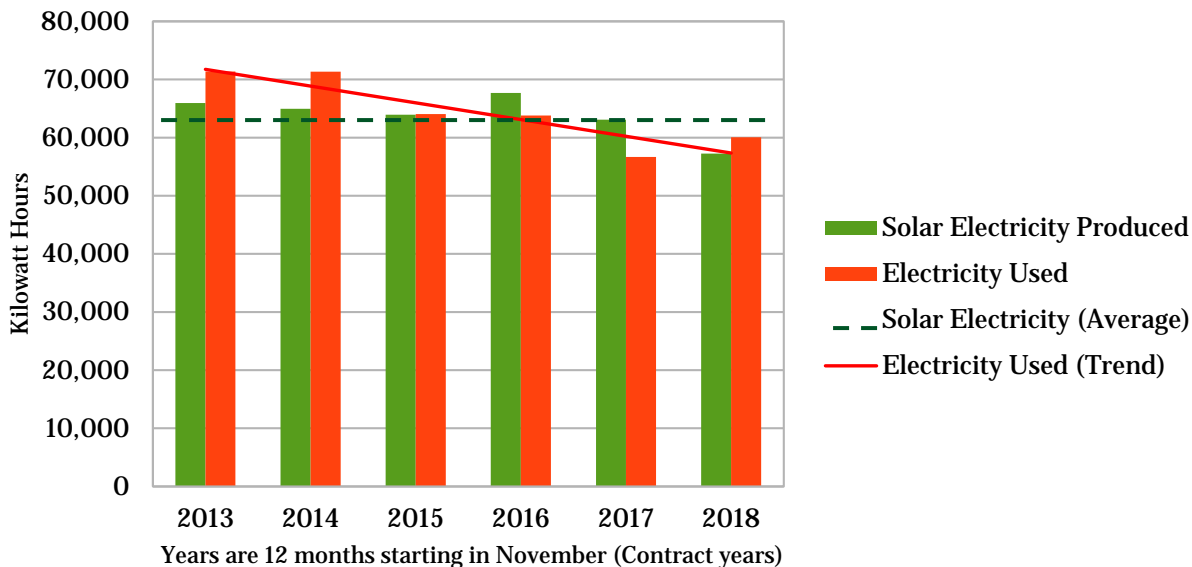
- Solar Electricity Produced
- Electricity Used
- - - Solar Electricity (Average)
- Electricity Used (Trend)



South Church Solar Panel Update

How have we done?

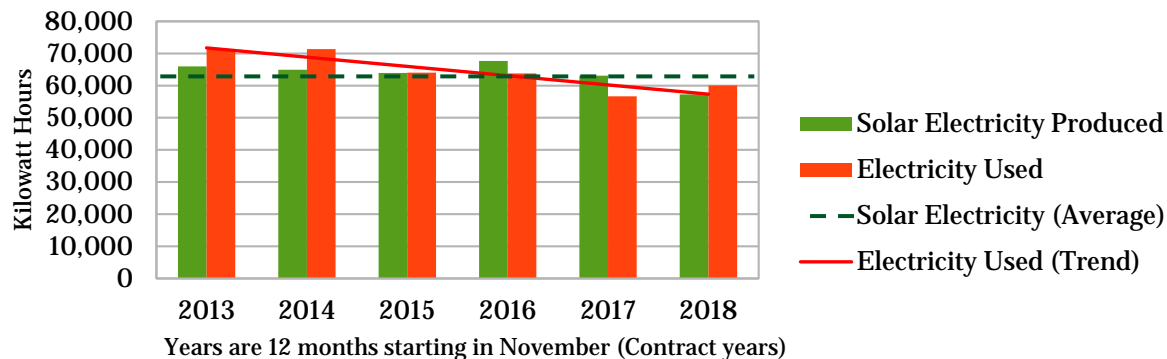
- Over the first 6 years, our solar panels have generated 99% of the church's electrical needs!
- **Takeaway:** Our solar panels have made our electricity almost completely "carbon neutral"



South Church Solar Panel Update

How have we done?

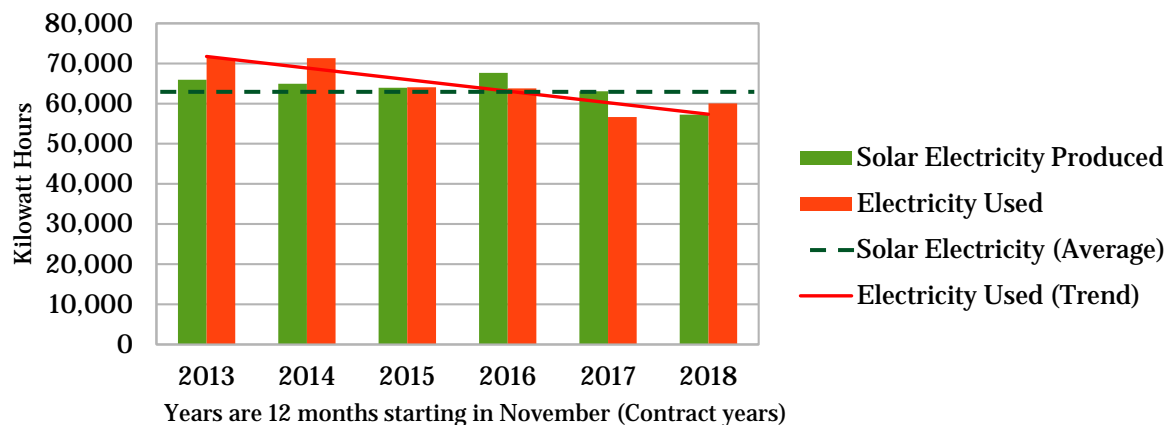
- We've worked to be more energy efficient at the church
 - LED lights in Fellowship Hall, Sanctuary and Parlor, better insulation, plugging air movement, and more
- Our electrical use is trending down
- **Takeaway:** In 6 years, we've reduced the our electricity use by 18%!



South Church Solar Panel Update

How have we done?

- Because we've gotten more energy efficient
 - LED lights in Fellowship Hall, Sanctuary and Parlor, better insulation, plugging air movement, and more
- Our electrical usage is down
- **Takeaway:** Over the last 4 years, our panels have generated more power than we've used! 103%!



South Church Solar Panel Update

How much carbon have we saved?

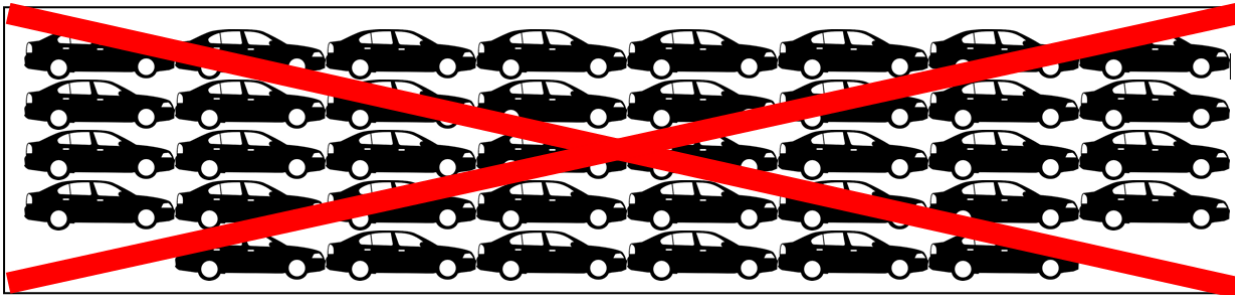
- In the first six years the solar panels generated 383,000 kilowatt hours of electricity.
- This is enough to power six average American homes for six years.



South Church Solar Panel Update

How much carbon have we saved?

- In the first six years the solar panels generated 383,000 kilowatt hours of electricity.
- The electricity was generated without emitting any carbon dioxide or other greenhouse gases.
- We reduced our carbon footprint by 144 tons.
- This is equivalent to taking 38 cars off the road for an entire year.



South Church Solar Panel Update

How much money have we saved?

- In the first six years the solar panels have generated 383,000 kilowatt hours of electricity.
- The retail value of the solar electricity is about \$80,000 (valued at 20 cents per kWh which is approximately the current rate).
- The savings to South Church has been about \$32,000, since we purchase the solar electricity at a discount.

\$\$\$\$\$\$\$\$



The Green Team at South Church

- We meet on the 3rd Thursday of every month during the regular church year
- We welcome new members and new ideas!
- Who's on the committee:
 - Mark Bohrer (co-chair), Candy Dann(co-chair), Steve Fink, Fran Fink, Bill Schroeder, Janet Clarke, Susan Johnston, Iric Rex
- Our goals:
 - Promote good environmental stewardship in the church's facilities, and also in our homes and the wider community
 - Our motto: We can do this!
Climate Change can be solved!

