



Solar Journeys

<https://goo.gl/aKu3Jm>



Why solar fit for me

Young subdivision

Desire to early adopt

Ability to afford

Steps before solar

Energy audit and Efficiency work

- Insulation
- Windows
- Doors
- Lighting
- Appliances
- Automobile

Make Your Home More Energy Efficient

RESNET
SMARTHOME
TIPS

Energy efficient homes are environmentally friendly, enjoy higher resale values and save their owners anywhere from \$200 - \$400 annually in energy costs. This infographic shows how you can make your home more energy efficient.



Insulation

Home insulation improvements can generate up to 20% in savings on heating and cooling costs. By air sealing you could save up to 30% on energy costs.



Lighting

Energy saving CFLs (compact fluorescent light bulbs) use 70% less energy than incandescents, and save an average of 8 cents per kilowatt-hour.



Appliances

Replace old and inefficient appliances with newer energy efficient ENERGY STAR versions.

ENERGY STAR refrigerators: 9-10% more efficient than the federal minimum energy efficiency standard.

ENERGY STAR washing machines: use 40% less water and 25% less energy than standard ones.

ENERGY STAR dishwashers: 10% more energy efficient than conventional units.



Windows and Doors

Replacing leaky old windows and doors with new energy efficient ones can save you over \$1000 annually.



Heating and Air

Heating & air account for nearly 56% of a household's budget; reduce this by investing in an energy efficient HVAC. Seal ductwork to eliminate 15% of your home's total air leakage.

For more information on ways to save energy visit www.resnet.us • www.resnet.com/appliance-smarhome • www.facebook.com/ResnetSmartHome

RESNET
RESIDENTIAL ENERGY SERVICES NETWORK

Sources:
www.energystar.gov/appliance_efficiency_products_and_services
www.energystar.gov/flash/content/energy_efficient_products_and_services
www.energystar.gov/products/energy_efficient_products/energy_efficient
www.energystar.gov/products/energy_efficient_products/energy_efficient

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Going Solar

Online contractor search

Contractor meetings

Three quotes

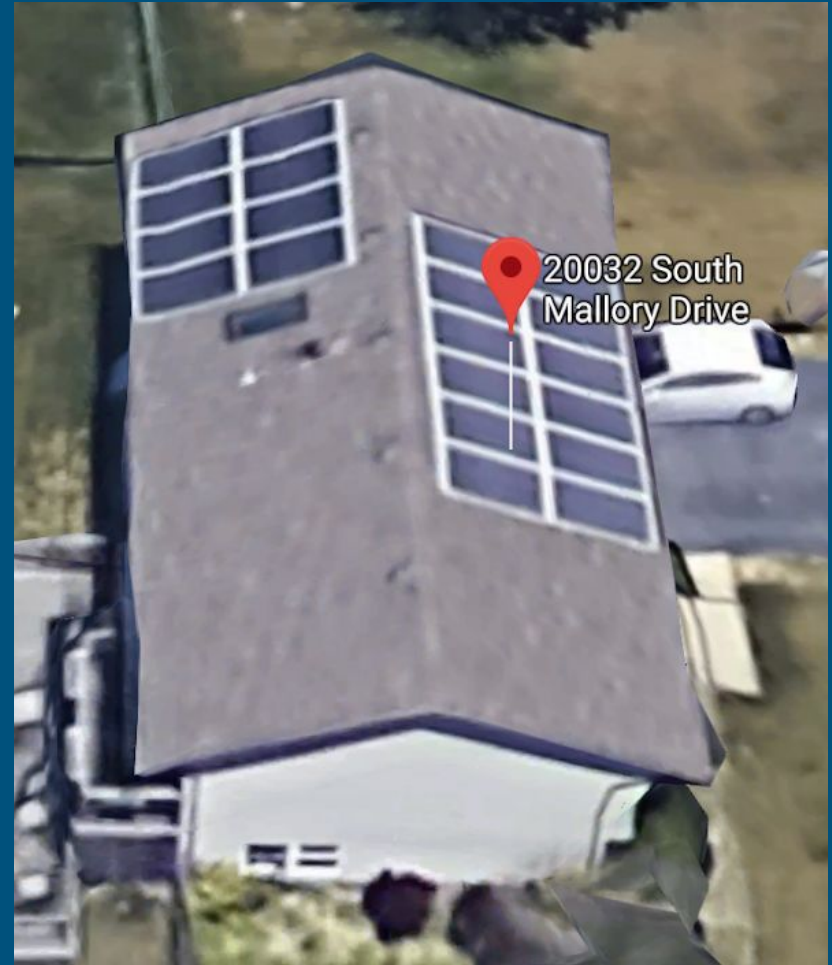
December 2015

Bi-directional meter installed
by ComEd

6.5 kW system

20 panels, 12 east, 8 west

Federal Tax credit refunded
30% of cost following spring



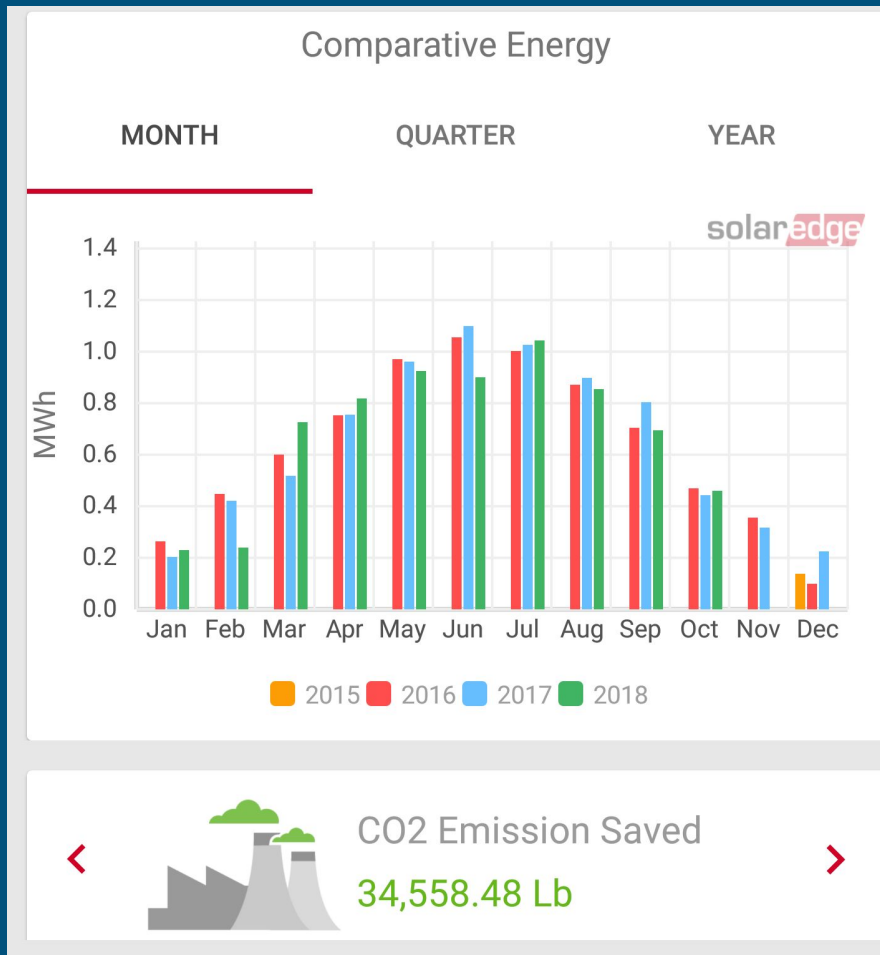
Now...

Lifetime production: 22.3 MWh

Monthly electric bill: \$15

- Connection fees and taxes
- Average savings \$45/month
- Total savings: \$1620

Renewable energy credits
accrued: \$3600



Future

Paid off loan three months ago

Changed oven and range to electric from gas

Expect to go electric with next vehicle

Battery?

3 years from achieving RoI (6 years total)

Your journey?

Purchasing Home Solar

- Homeowner pays full upfront costs
- Qualifies for federal tax credit
- Enter into reciprocal agreement with power company
- Can sell Solar Renewable Energy Credits

Power Production Agreement

- Homeowner provides space for power company to install panels.
- Zero upfront costs
- Homeowner gets discounted rates from power company
- No tax credit or SREC

Illinois Future Energy Jobs Act

Requires 25% of energy from renewable sources by 2025

Favors small projects

Tools for Evaluating Your site

Energy Sage Solar Calculator:

<https://www.energysage.com/solar/calculator/>

Illinois Solar Energy Association:

<https://www.illinoissolar.org/>

Federal Tax Credits

- 2018: 30%
- 2019: 30%
- 2020: 26%
- 2021: 22%
- 2022: 0%