



# Trenton Efficiency Home



As part of their energy-efficient home installation, this young couple decided to include a solar PV array to help offset their monthly home and HVAC energy consumption. Already familiar with renewable technology, they knew they could achieve up to \$0\* monthly utility bills due to their heat pump's cost-saving benefits. Additionally, the excess energy produced by their solar array will be pushed back to the utility grid and their account credited as part of their net metering program. To learn more about their home and heat pump installation, [click here](#).

## **INSTALLATION DETAILS**




The solar array includes 47 Axitec monocrystalline modules, with a SolarEdge 10kw inverter and optimizers. This unique solar installation also utilized Unirac frame mount racking and Roof Entry Brackets. Additionally, this home includes Enertech's Advantage air-to-water heat pump for forced air heating and cooling, 100% domestic hot water, and radiant in-floor heating. This unit uses no fossil fuels, contains no ground loops, or refrigerant lines outside of the home.



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## PROJECT DETAILS

<b>Building Size:</b>	1,715 sq. ft. house, 500 sq. ft. garage
<b>Air Source Equipment:</b>	Advantage Air-to-Water Heat Pump
<b>Installer:</b>	Enertech Global
<b>Utility Company:</b>	City of Highland
<b>Savings:</b>	<b>Monthly Utility Savings:</b> \$200 <b>Lifetime Heat Pump Energy Production:</b> 2.51 MWh 1.22 MWh lifetime energy left over to power the home's additional energy needs

-  CONSTRUCTION TYPE  
**Retrofit**
-  AIR-TO-WATER APPLICATION  
**Forced Air, Hot Water Heater, and Radiant In-floor Heating**
-  ANNUAL POWER PRODUCTION  
**18,409 kW**

