



GRID-TIED SOLAR-PLUS-STORAGE SYSTEM

**PROJECT**

Residential: Enclave One

**LOCATION**

Dorado, Puerto Rico

**APPLICATION**

Self-Consumption,  
Solar-Plus-Storage System

**PRODUCT**

Blue Planet Energy  
Blue Ion 2.0

# Solar-Plus-Storage Delivers Energy & Financial Freedom to Homeowners

After moving to Puerto Rico from the U.S., the Wadsworth family experienced first hand the country's expensive yet unstable electric grid. Having relied on a generator for four years, the Wadsworths wanted a permanent solution that reduced electricity costs and ensured their house always remained powered.

**BATTERY SYSTEM**

(4) Blue Ion 2.0 16 kWh,  
64 kWh Total Capacity

**POWER CONVERSION**

(4) SolArk 12kW Inverters

**INSTALLER**

reSOLient

**SOLAR**

44kWdc Solar Array



With exorbitant energy prices and an unreliable electric grid, most residents of Puerto Rico end up overpaying for electricity that often never reaches their house. In efforts to save money and gain stability, and further avoid prolonged power outages like those caused by Hurricane Maria in 2017, many families are seeking alternative energy sources like solar PV and battery storage to generate their own reliable energy at a fraction of the cost.

The Wadsworth family, residents of the Enclave community in Dorado, invested in a solar-plus-battery system to become energy resilient and gain peace of mind knowing that their household would always have power, even if a catastrophic event like Hurricane Maria happens again. While the family previously used a standard generator for backup power, the solar-plus-storage system replaces their everyday need for the generator, and ultimately saves additional gas and maintenance required for ongoing generator use. Then, in the event of prolonged outages, the Wadsworths can still use their generator to charge the battery system.

This new energy independence, coupled with significant monetary savings, is a win-win for the Wadsworth family, and their contributions toward a healthier environment are a powerful bonus.



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“After installing a solar array and Blue Planet Energy storage system, the Wadsworths now save over \$18,000 a year in electricity.”

— Alfredo Uriarte  
reSOLient

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#### **Performance, Safety & Reliability: the Complete Package**

The Wadsworth’s first step toward energy independence began by selecting local renewable energy provider, reSOLient, to install rooftop solar with an accompanying battery storage system. While the rooftop solar allowed the Wadsworths to leverage the sun to generate and use their own electricity during the day, the batteries then store excess energy to be used later as needed, both at night as well as when the power grid goes down.

The 44kWdc solar array consists of a Znshine 380 Mono Panels, Sol Ark inverters, and Unirac racking, and when the time came to choose a battery provider, the Wadsworths immediately recognized the durability and warranty of Blue Planet Energy batteries over other solutions. Backed by an unmatched 15-year performance warranty, Blue Ion 2.0 delivers the highest quality energy storage solution on the market and boasts an extended life expectancy.

Also considered was Blue Planet Energy’s use of lithium ferrous phosphate, the safest phosphate chemistry available. Given Puerto Rico’s hot climate, eliminating fire and safety risks was extremely important and made Blue Ion 2.0 the ideal choice for their home. Blue Planet Energy’s success across Puerto Rico and Hawaii proved Blue Ion 2.0 batteries could easily withstand fluctuating and extreme island environments.

Additionally, the robustness of the Blue Ion 2.0 and Sol Ark combination also offered the Wadsworths confidence that they can easily manage all of the household’s energy loads, should blackouts occur.

“Blue Ion was instrumental in the design of the system, helping both us and our customer to identify the right inverter solution to meet the project requirements. They were also very supportive during the commissioning process to ensure the installation was completed successfully,” explained reSOLient installer, Alfredo Uriarte.

#### **Investment Yields Long-Term Savings**

The system was also designed for the Sol Ark inverters to automatically start the generator if the battery bank reached protection levels. Though integrating the generator to the inverters posed a few initial challenges, reSOLient worked directly with Blue Planet Energy and Generac to rewire the transfer switch and connect the equipment.

With their system now fully installed, the Wadsworth family is projected to save over \$18,000 a year on their electricity bills and has gained the peace of mind knowing they are protected by a reliable, clean energy source whenever the power goes out. The Wadsworths are also reducing their carbon emission footprint by 64 tons a year, helping to protect the climate and improve air quality.

