

## Contract Details

### Contract Type:

Design/Build; Photovoltaic System;  
Renewable Energy

## About Burts Ranch

Burts Ranch is a family-owned and operated hunting lodge located in Bracketsville, Texas. The ranch provides an intensive native deer management program to ensure their nourishment and care through maturity. Burts supports Hunts for Heroes, a nationwide organization dedicated to providing hunting, outdoor activities and a charitable initiative for veterans.

*Learn more at [www.burtsranch.com](http://www.burtsranch.com).*

## About Ameresco

Ameresco, Inc. is one of the leading global energy services providers. We deliver long-term customer value, environmental stewardship, and sustainability through energy efficiency services, alternative energy solutions, supply management, and innovative facility renewal strategies. The company has over 750 employees in regional offices throughout North America. Ameresco, Inc. has constructed billions in energy projects throughout the world.

*For more information about Ameresco and our full-range of energy efficiency and renewable energy solutions, please visit [www.ameresco.com](http://www.ameresco.com).*



*Ameresco helped Burts Ranch achieve a solution for its water needs by designing a solar-powered pump that will draw water to the ranch and storage tank.*

## Customer Benefits

This solar water pumping system solved a serious problem for the ranch owner. A water well was located in a remote area of the ranch, and the water had to be pumped 1.33 miles to the residence with an automatic format. Ameresco Solar designed and supplied a pump controller and a pressure switch and pressure tank. Not only does it pump water to the residence, the pump automatically feeds to a storage tank 1.33 miles away. The pump is designed to determine the pressure in the line, which is relevant to the amount of water in the tank, and operate when there is adequate sunlight. The customer is entirely independent of grid power to meet the ranch's water needs. For a ranch that functions as a hunting lodge and a game reserve, a reliable source of electricity to provide water for the guests and animals is essential.

## Accolades

*"Partnering with Ameresco was a smart decision for Burts Ranch because we needed someone that understood how we operate and has the skills to design a system that would work out here. We no longer worry about our water supply. Having confidence in our system goes hand-in-hand with confidence in Ameresco. We know that the pump will draw water for the ranch and our storage tank without requiring supervision from our team. This allows us to focus on our guests and the animals; the sun shines and takes care of the rest."*

*- Kyle Burts, Burts Ranch*

## Services Provided

Ameresco designed the solar powered water pumping system based on the water production desired and the geography involved. Ameresco supplied the component parts of the solar water pumping system.

J. Ballew, a local licensed/certified water well service firm, installed the solar water pumping system. This well is set up with a pressure tank and switch and pumps about 7,500 feet to the water delivery and filter system at the house. This is a #11SQF2 with three 175-watt modules. The actual production of the pump varies with the solar intensity acting on the solar array. The system is solar direct. On a clear day, the pump will start in the morning and will slowly pick up speed to a maximum output around noon. As the afternoon wears on, the pump slows and eventually stops before sunset.



*At Burts Ranch, wild deer are nurtured into maturity; Ameresco tailored a solution that would be safe for the animals and discreet to maintain the area's natural beauty.*