White Harvest Energy

CASE STUDY

BACKGROUND

For the first time ever, Huntsville Utilities will purchase electricity from a provider other than TVA. This new solar PV project will be part of a green initiative for the utility company while providing cost savings.

Huntsville city council unanimously approved an agreement for Huntsville Utilities to purchase power from Toyota Tsusho, which is building the solar power facility near Toyota Motor Manufacturing in north Huntsville, Alabama. The agreement was also approved by the Huntsville Utilities Electric Utility Board.



QUICK FACTS

In Operation: February 2024 expected

Site: Toyota Motor Manufacturing

Location: Huntsville, AL

Generating Capacity: 30 MWe

Equipment: Solar Photovoltaic Array

PROJECT BENEFITS

- 62,000 MWh electricity annually
- Operating cost savings (make vs buy power)
- Lower reliance on TVA's grid sources
- 22,000 tons per year of CO2 emissions avoided

APPLICATION

The $49MM solar development will generate up to 30 megawatts of electricity when the sun is shining – which can power about 5,600 homes. The power purchase agreement would cover about 40% of the 5% flexibility that Huntsville Utilities has to purchase power from a non-TVA source. The solar PV array will be used to power operations at the $1.5 billion Toyota Motor Manufacturing plant, which has the capacity to produce 900,000 engines annually. Huntsville Utilities will also build a $2.6 million substation to connect to the project.

PROJECT TEAM

Owner: Huntsville Utilities

Consultant: White Harvest Energy

Developer: Toyota Tsusho America

Facility: Toyota Motor Manufacturing

CHP EPA COMBINED HEAT AND POWER PARTNERSHIP

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