Jackson Energy Center: An Estimated 3.0 Billion Battery Energy Storage (BESS) Project

Energy Storage Solutions, LLC

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ESS Introduction

ENERGY STORAGE SOLUTIONS, LLC

Energy Storage Solutions, LLC (ESS) a battery energy storage company (BESS) was founded by the original owners and key staff of North Carolina Renewable Energy, LLC (NCRE) an experienced and successful solar development company of solar projects in North Carolina, South Carolina, and Virginia.

With NCRE under our control for 10 years, the solar pipeline grew to over 3.5 Gigawatts AC, from Greenfields to NTP to COD, becoming one of the largest Solar Developers east of the Mississippi River.

Jackson Energy Center

Project Outline



Energy Storage Solutions, LLC (ESS) proposes to build a 1000MW ac/4000MWh Energy Center off Jackson Rd, Bennettsville, SC on a 71 acre site owned by Goforth Solar, LLC, an affiliate of ESS. There are approximately 20 acres of wetlands on the property, but there are approximately 50 buildable acres still available.

Five transmission lines cross the site owned by Duke Energy Progress, Santee Cooper, and Central Electric Coop. The property has recently been timbered, and it is mostly cleared. Jackson Road is a dirt road maintained by Marlboro County and the project is less than 1/2 mile from Salem Road; a two-lane paved road.

This is a prime location for a major energy storage system, considering there are four different substations near the project site, the Bennettsville Electric Substation is 500 feet away, a large Duke Energy Substation adjoins it, and there is an Emergency Generating station adjoining the site. Within 1 mile to the Northeast there is another Duke Energy Progress Substation / Switching Station and to the East is located a large Santee Cooper Substation.



Energy Storage Solutions, LLC



Executive Summary

Jackson Energy Storage Projects:



3 individual 100MW ac/400MWh projects

2 individual 200MW ac/800MWh projects

1 individual 400MW ac/1600MWh project

ENERGY SOURCES





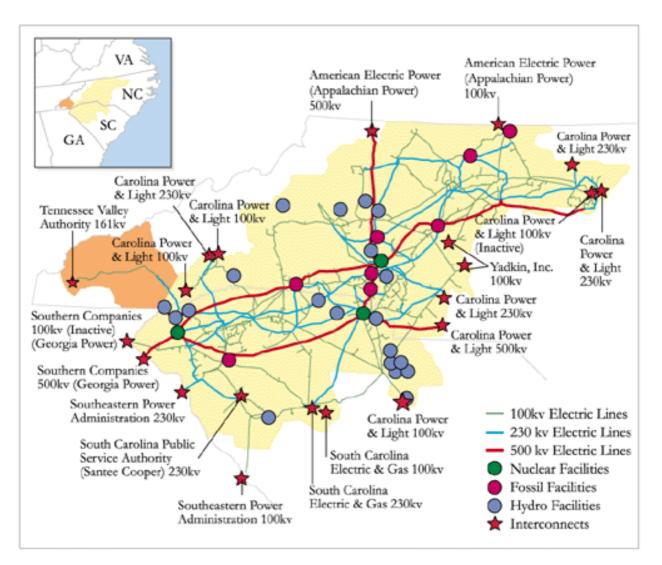
BESS APPLICATIONS



Possible accelerated Queue Position:

Duke Energy Progress has a number of constrained transmission lines that run from South Carolina northward along Interstate 1-95 into North Carolina. The upgrade cost to Duke Energy progress has been estimated to exceed \$238,000,000. ESS currently owns numerous sites along these constrained transmission lines. If ESS were to build a number of large Energy Centers along these constrained transmission lines, it would allow the Utility to manage their energy systems and alleviate the need for this expensive transmission upgrade.

Under the circumstances, ESS could propose building such Energy Centers (3 or 4 of them) at ESS's expense and receive a positive response from Duke Energy Progress, saving Duke the expense of the transmission upgrade, allowing them to simply manage their energy more efficiently.



Duke Electric Transmission System Map:



Brief Executive Summary on next page.



Utility: Santee Cooper, Central Elec Coop, **Duke Energy Progress**

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to this site, or approximately a

1000MW ac/4,000MWh could be

built here.

Jackson Energy Center Summary:

Due to the location of these sites in Bennettsville, SC, we believe that Jackson Energy Center has the potential of becoming one of the largest Energy Centers in South Carolina, with it reaching up to 1,000MW ac/4000MWh in production and size.

Within a one-mile radius there are 4 substations owned by Duke Energy Progress (with an emergency power back-up system), Santee Cooper, and Bennettsville Electric / Marlboro Electric Coop, and a large Switching Station also owned by Duke Energy Progress, with all of these stations being connected to one another.

This location is a part of the "constrained" Duke Energy Progress transmission system and the development of this project with ESS, using "energy arbitrage" and ancillary service could go a long way in solving this problem, and potentially allowing this Energy Center to jump the existing queue positions.

There is site(s) control through several land lease options by ESS in place; through the site ownership of Goforth Solar, LLC (& CB Daughtridge). See the attached Tax Map for Jackson Energy Center, showing the sites and the Substations & Switching Station.



030 53 67 407	Jackson Energy Center General Parcel Information
	09 00 02 00 09 00 02 00 09 00 02 00 09 00 02 01 09 00 02 01 00 0

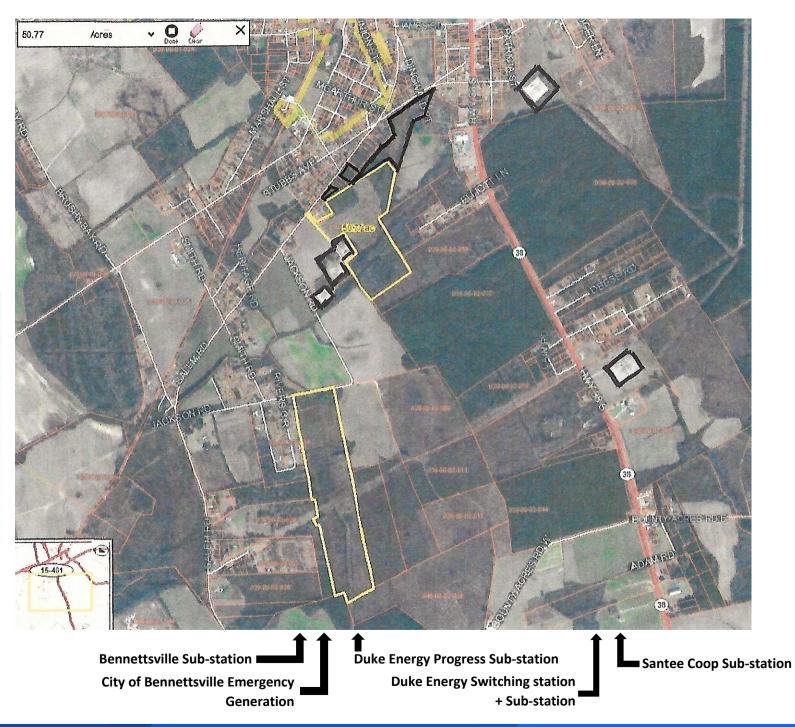
Property Carc	Show Property Card
Map Number	039-00-02-112
Owner Name	GOFORTH SOLAR LLC
Mailing Address1	
Mailing Address2	4460 MEADOWBROOK ROAD
Mailing Address3	ROCKY MOUNT NC
Mailing ZipCode	27801
Physical Address	0
Legal Description1	
Legal Description2	
Total Acreage	71.03
Deed Book	
Deed Page	
Plat Book	
Plat Page	
Description Location	JACKSON ROAD
Description Location2	1 MI S BENN
Sale Price	\$0.00
Sale Date	1900/01/01

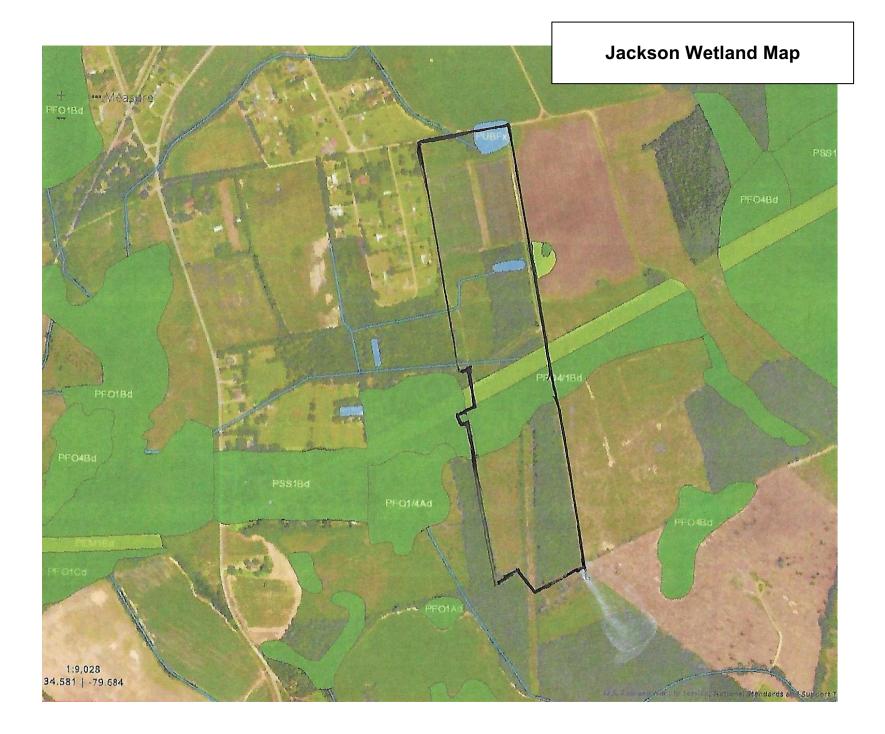
Jackson Energy Center (Salem Energy Center)

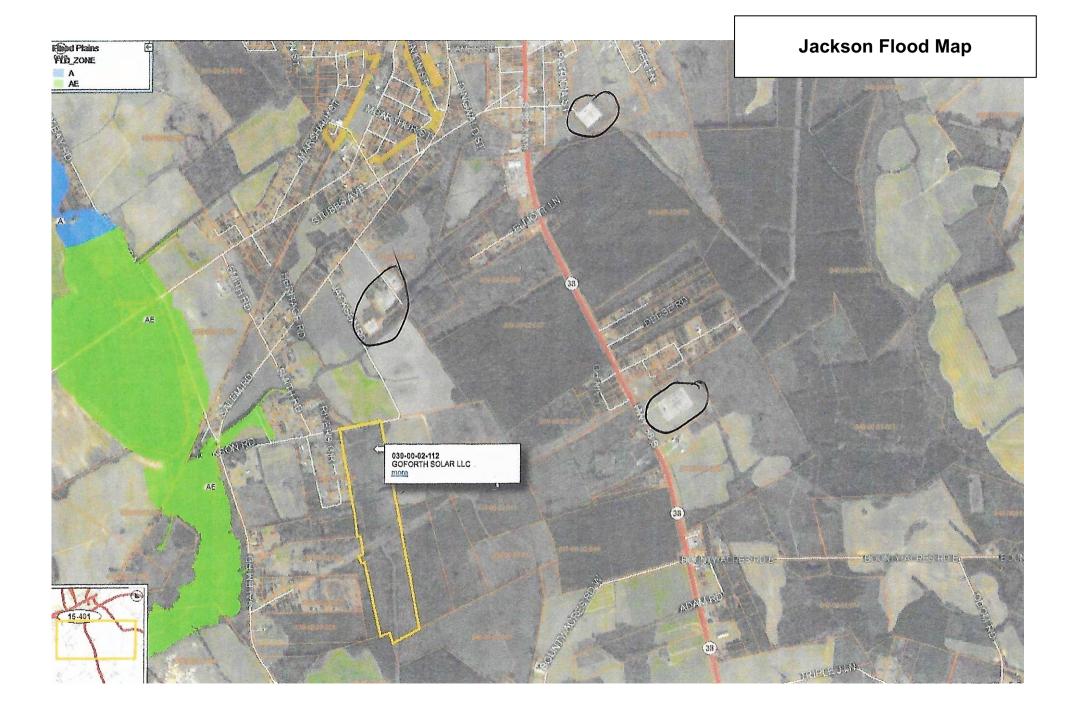
039-00-02-001 49.78 Acres CB Daughtridge

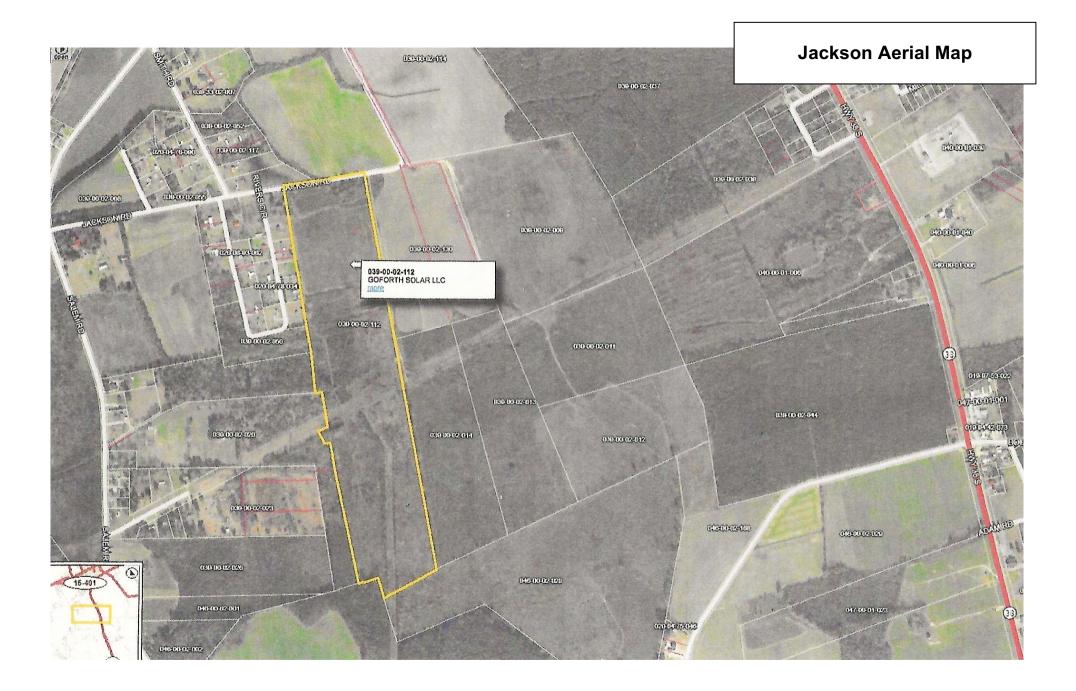
039-00-06-018 18.8 Acres Goforth Solar

Property Card	Show Property Card
Map Number	039-00-02-112
Owner Name	GOFORTH SOLAR LLC
Mailing Address1	
Mailing Address2	4460 MEADOWBROOK ROAD
Mailing Address3	ROCKY MOUNT NC
Mailing ZipCode	27801
Physical Address	0
Legal Description1	
Legal Description2	
Total Acreage	71.03
Deed Book	
Deed Page	
Plat Book	
Plat Page	
Description Location	JACKSON ROAD
Description Location2	1 MI S BENN
Sale Price	\$0.00
Sale Date	1900/01/01









PROJECT Jackson Energy Center

A PROPOSAL BY ENERGY STORAGE SOLUTIONS, LLC

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