



Ryse Energy

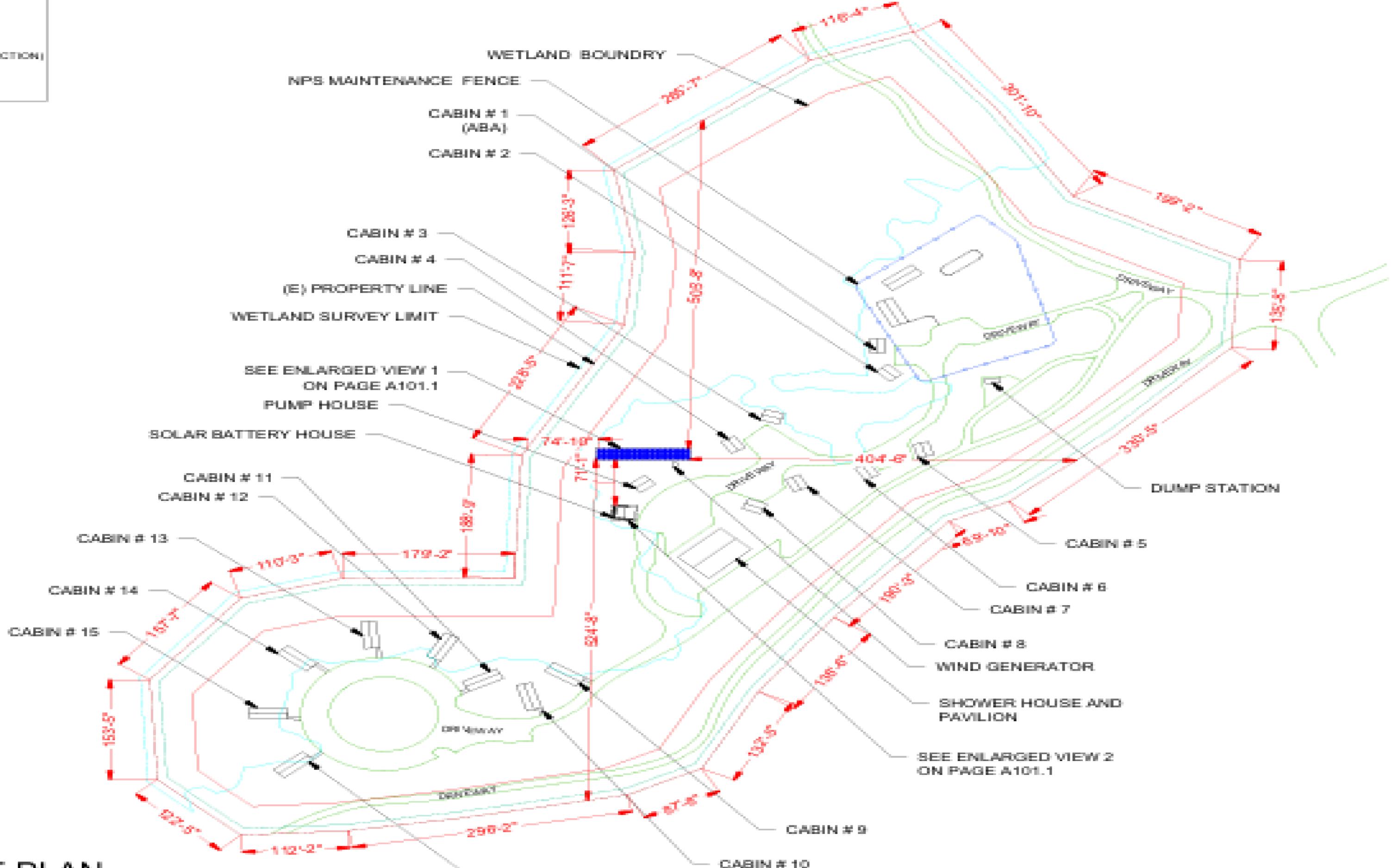
Cape Lookout, NC – Campground

Hybrid Solution Incorporating (2) E-5 Wind Turbines

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PROPERTY LIMIT
(NO ROOF OBSTRUCTION)



MICROGRID

INSTALLING E-5 – CAMPGROUND

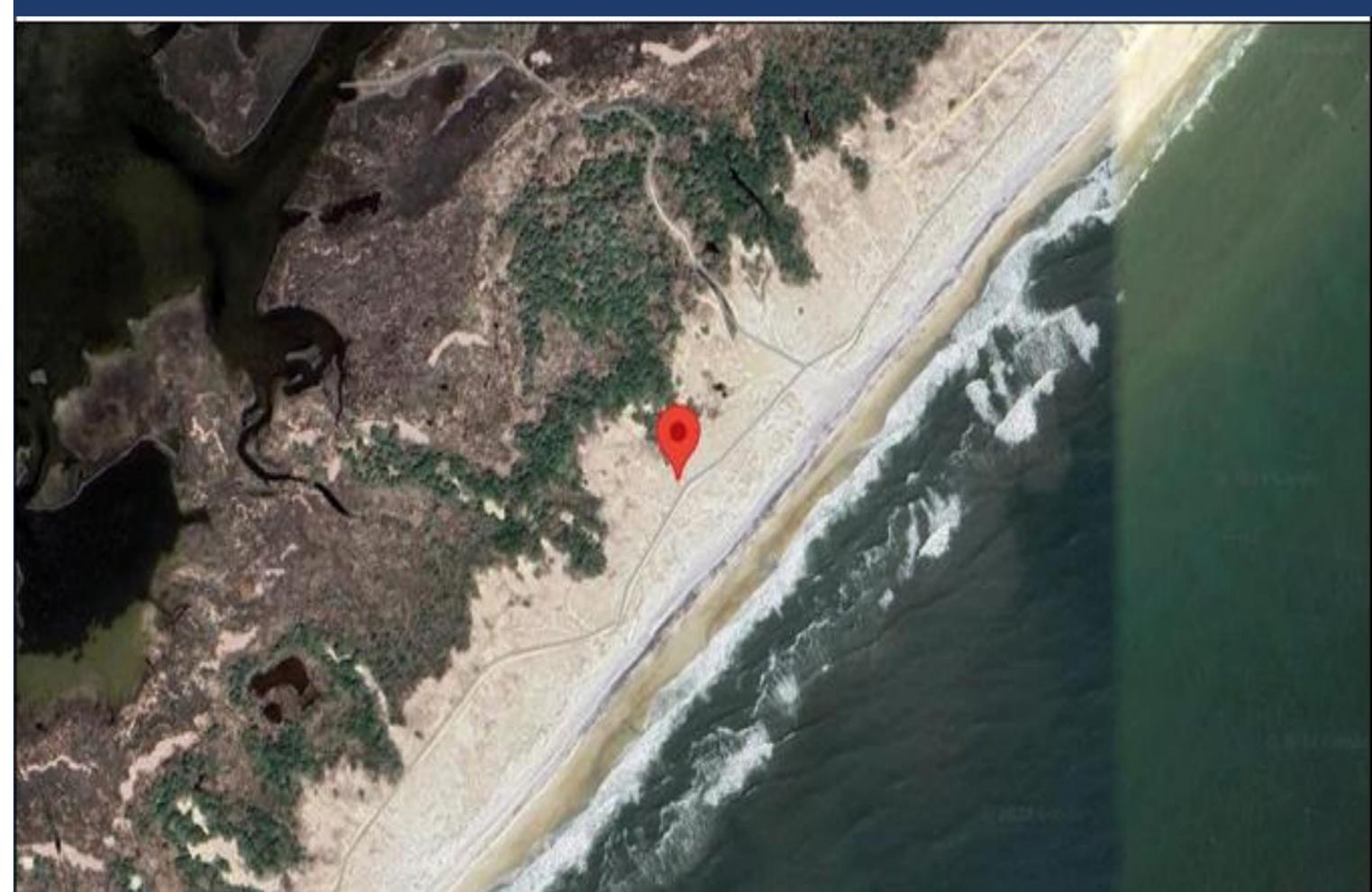
CAPE LOOKOUT, NC

Ryse Energy have incorporated (2) E-5 Wind Turbines as part of a remote Off-Grid Campground in North Carolina – Cape Lookout as backup power. Full solution included Solar PV / Battery Storage and additional Genset.

Off-Grid Campground accessible via Ferry only !!!

Ryse Energy delivered two E-5 (5kW) Wind Turbines to incorporate with micro-grid to a campground, where previously there was no energy availability.

The full installation consisted of 2x E-5 HAWTs, with 30 kW of solar PV / battery storage/genset. The system foundation had to be fabricated and mounted by hand, as access to heavy machinery was not available.



Sector	Microgrid (Remote Energy Supply)
Location	NC, Cape Lookout Campground
Type	Off-Grid
Installation	E-5 Turbines, Solar PV & Battery Storage
Total Power	29. kWp Solar and 10 kW Wind Solution

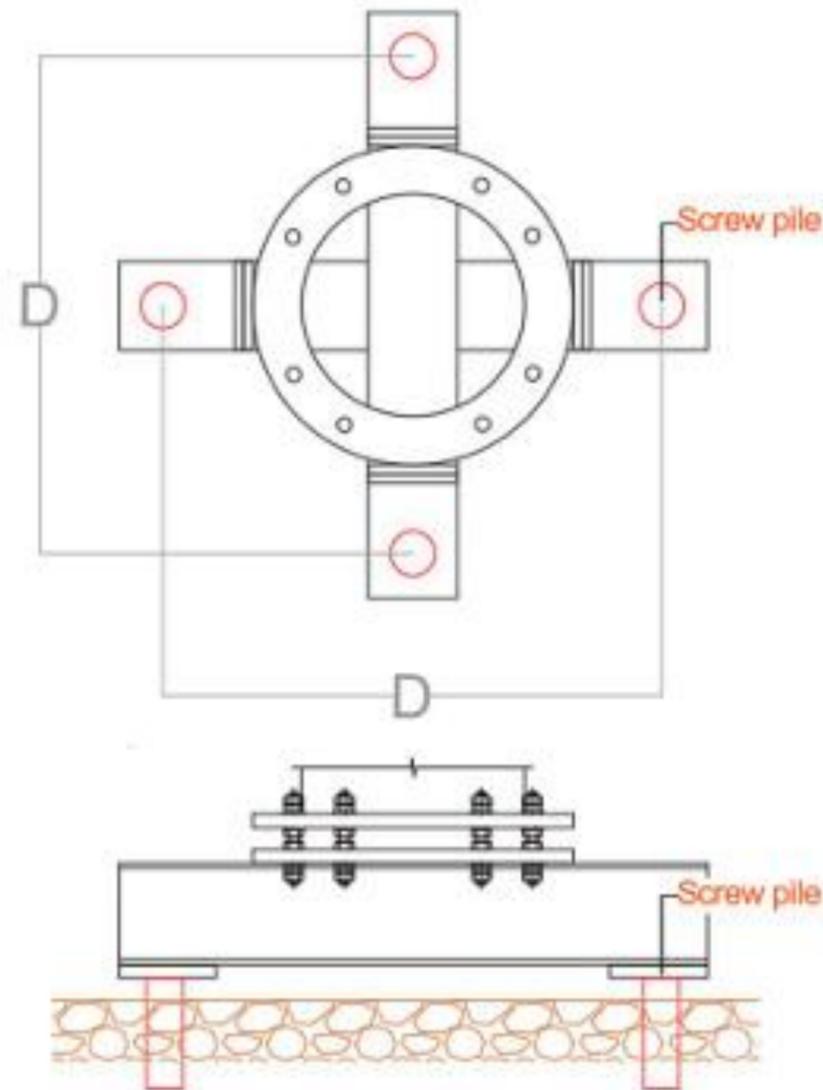


MICROGRID

INSTALLING E-5 – CAMPGROUND CAPE LOOKOUT NATIONAL SEASHORE, NC

Tower included (2) 10m Tilt Towers w/ Motorized Screw Jacks

Due to location accessibility, the traditional foundation was not an option, a (Screw) Pile Foundation was designed to match the tower and site conditions.



INSTALLING E-5 – CAMPGROUND CAPE LOOKOUT, NC



INSTALLING E-5 – CAMPGROUND CAPE LOOKOUT, NC



The E-5 Wind Turbine component was added as a backup energy source to compliment the Solar PV/Battery and Genset Solution.

Wind Solution (E-5 units) will provide an annual energy production of 14,300 kWh (each at referenced wind speed 6-7 m/s) - with peak output during FEB-APR and OCT-JAN

Renewable energy solution is located near center of camping area providing full access to electricity/ water on-site.

Towers are designed to be lowered and raised for access during servicing needs and or at discretion of Park Services, allowing for streamline accessibility.

Solar and Battery system managed and installed by Cape Fear Solar Solutions.

Overall site construction by RITZ Builds



RYSE ENERGY OPTIONS

Ryse Energy offers two options for each of the requested models

OPTION N°1

Ryse Energy E-5 (5.5 kWp)



- 5.5 kWp Horizontal Axis Wind Turbine
- Main Dimensions:
 - Swept Area: 14.5 m²
 - Diameter: 4.3 m
 - Turbine Tower: 15 m (can be customized)
- Operating Wind Speed:
 - Cut-in Wind Speed: 2 m/s
 - Cut-off Wind Speed: 60 m/s
 - Rated Wind Speed: 11 m/s

