

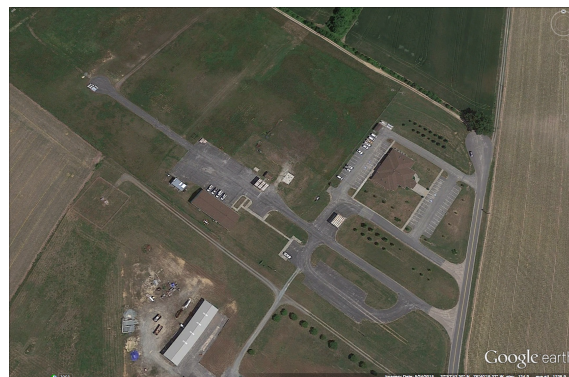
VDOT Solar Energy Development Project

Property Information Sheet



Property or Site Name Northern Neck Area Hq
Address 734 Barnfield Rd
City State Zip Warsaw, VA 22572
County Richmond

Property Size Acres 20.9 acres
GPS Coordinates 37.962278, -76.672152
Number of Meters on Site 2
Annual Energy Usage 102,233 kWh
Annual Demand Peak



Google Earth 3D Image

Table 1: Solar PV Potential for Property.

Solar array needed to meet annual kWh demand	0.09 MW (90.4 kW DC)
Number of 250 watt panels needed	362
Raw sq footage of solar panels	7,240 sqft
Sq footage of spaced solar panels	21,312 sqft
Roof sq footage available	4,308 sqft
Open area sq footage available	682,903 sqft (15 acres)

Site overview

The Northern Neck site has 15 acres of flat, grassy open area suitable for ground-mount PV. The site has three small structures and rooftop area was measured by GIS to be approximately 4,308 square feet.

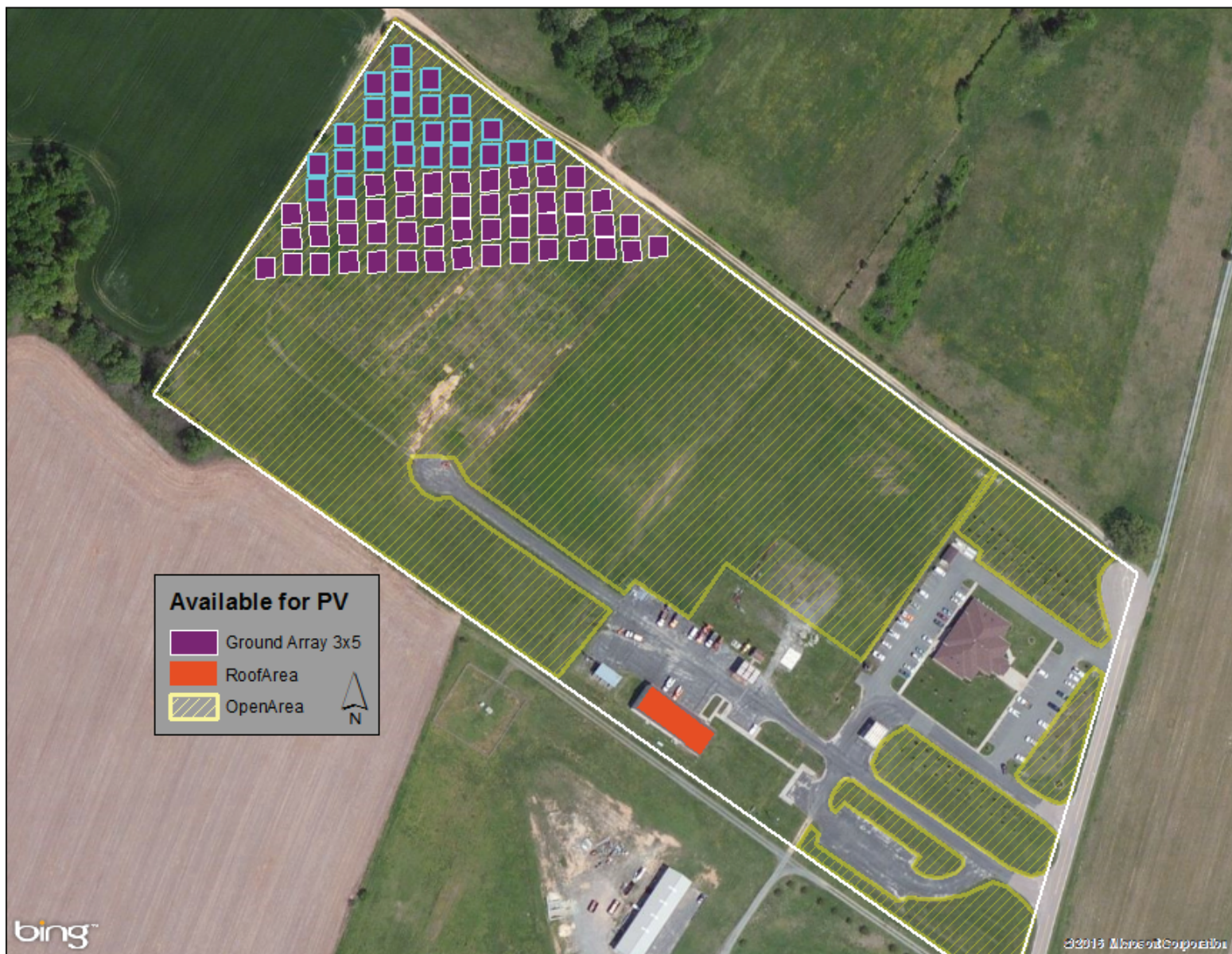
Nearby State Entities

The Haynesville Correctional Facility is extremely close to the Northern Neck site and has an annual kWh load of 6,385,220 according to Dominion Power data. This would require approximately 5700 kW of PV (23,000 solar panels at 250 watts each) to meet this demand.

GIS Notes

Displayed here are 73 ground mounted arrays which comprise of 15, 250-watt solar panels each for a total count of 1,095 solar panels. There is much more space available on this property but future plans could affect the available open area.

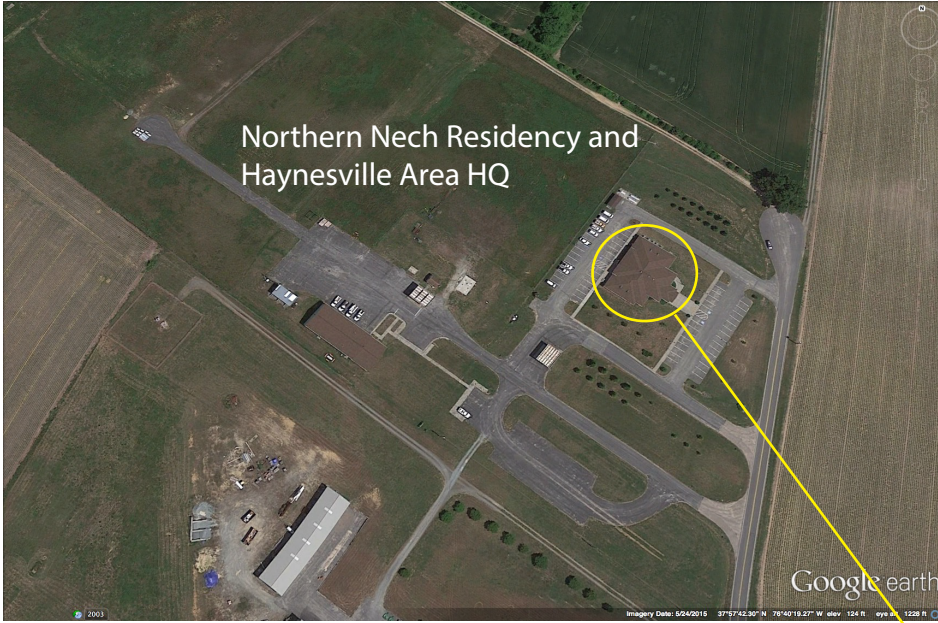
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ArcGIS Snapshot

Highlighted arrays above contain enough panels to meet the annual demand of the Northern Neck AHQ. Remaining panels and open areas can be utilized for more PV to power the nearby corrections facility. Once we know what other VDOT facilities are going to be deployed at this site, additional arrays can be placed and total kW energy values can be estimated.

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