

# Clean Energy Development and Services (CEDS)



## Property Information Sheet

Property or Site Name Eastern State Hospital  
Address 4601 Ironbound Rd  
City State Zip Williamsburg, VA 23188  
County James City County

Property Size Acres 499.19 acres  
GPS Coordinates 37.290083, -76.735724  
Number of sites in Parcel 1  
Annual Energy Usage (Parcel) 9,201,500  
Utility Provider Dominion



Google Earth 3D Image

Area for Potential PV Installation 16.4 acres

Table 1: Solar PV Potential for Property.

Solar Array needed to meet Annual Kwh Demand	6.7 MW (6669.2 kW DC)
Number of 250 watt panels needed	26,677
Annual Solar Insolation at Site	5.04 (kWh/m2/Day)
Acres needed for Array (8 acre per MW)	53 acres
Roof Area	35,792 Sq Ft

### Site overview

The Eastern State Hospital Parcel is mostly forested and is split by HWY 199. The site has several small open areas where PV could be placed.

### Facilities within the Parcel

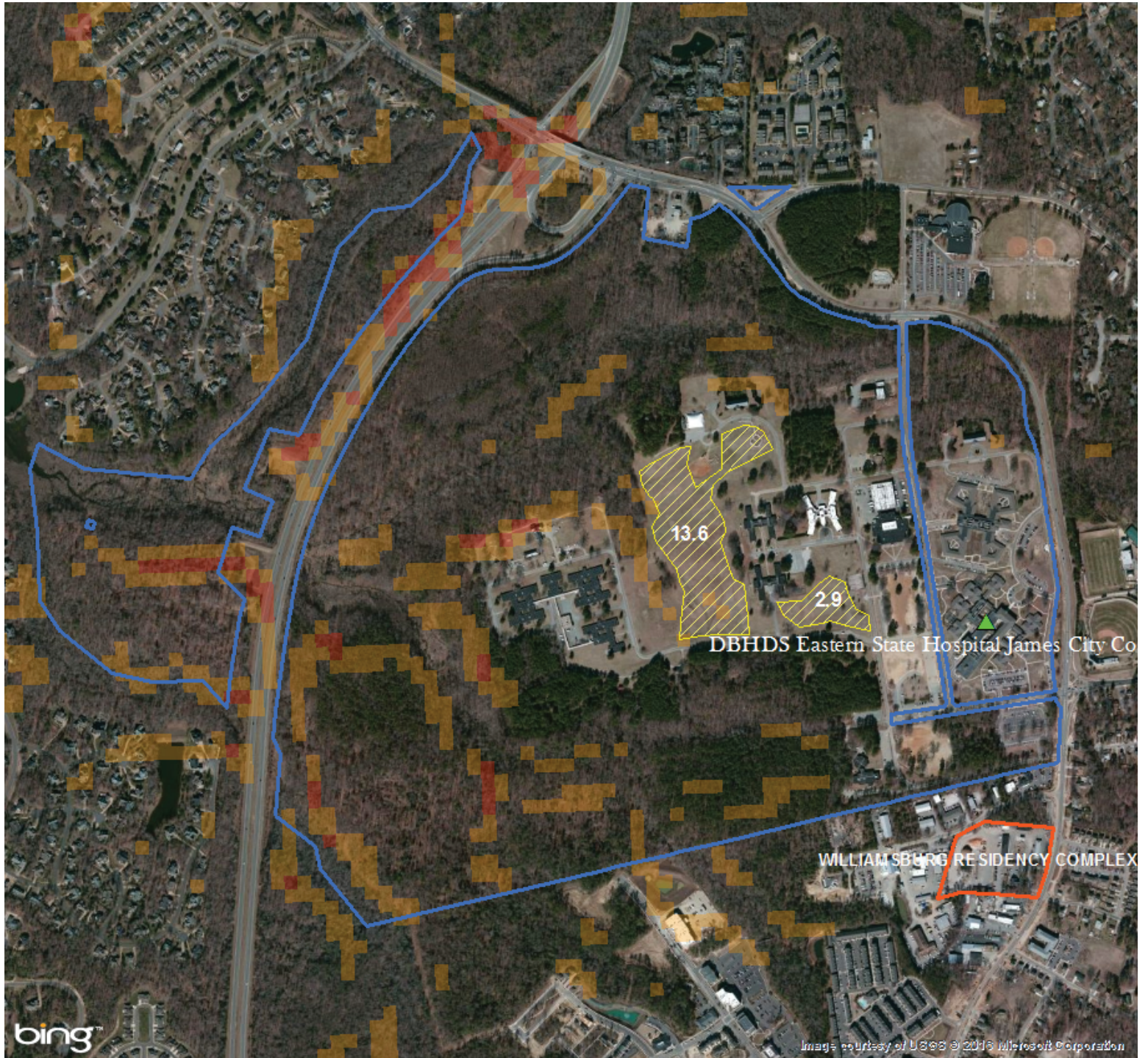
Eastern State Hospital

### Nearby State Entities

VDOT Williamsburg Residency Complex is near the south side of the parcel boundary. The annual demand for this site is 246,000 kWh according to Dominion data.







Terrain Slope Legend

- No Color 8% or Less
- 8 - 10 %
- 10-20% and up

- Open Areas
- Parcel Boundary
- VDOT Facility


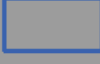





Esri ArcGIS Screenshot



**Orange** areas on rooftops represent available areas where PV panels may be placed. Available area may increase or decrease depending on shade analysis, and structural inspection.

-  Open Areas
-  Parcel Boundary
-  VDOT Facility





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Google Earth 3d Screenshot

