

Clean Energy Development and Services (CEDS)



Property Information Sheet

Property or Site Name Bland Correctional Parcel
Address 256 Bland Farm Rd
City State Zip Bland, VA 24315
County Bland County

Property Size Acres 2037.66
GPS Coordinates 37.168397, -80.888618
Number of sites in Parcel 1
Annual Energy Usage (Parcel) 5,407,800 kWh
Utility Provider ApCo



Google Earth 3D Image

Area for Potential PV Installation 31.1 acres

Table 1: Solar PV Potential for Property.

Solar Array needed to meet Annual Kwh Demand	3.87 MW (3865 kW DC)
Number of 250 watt panels needed	15,463
Annual Solar Insolation at Site	4.77 (kWh/m2/Day)
Acres needed for Array (8 acre per MW)	31 acres

Site overview

The Bland parcel is very large but most of the property is sloped beyond the 8% we are looking for. There are some agricultural fields which may be more level than they appear in GIS. Closer examination of sloped areas could present opportunities for ground-mount PV in areas beyond 8% slope.

Facilities within the Parcel

Bland Correctional Center

Nearby State Entities

None



Bland Correctional Parcel

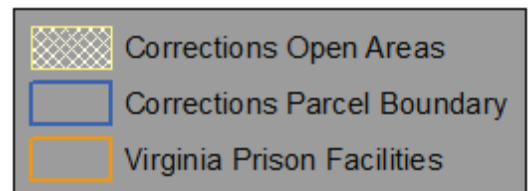
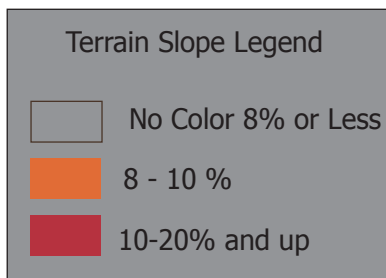
256 Bland Farm Rd

Bland, VA 24315

Bland County



Esri ArcGIS Screenshot

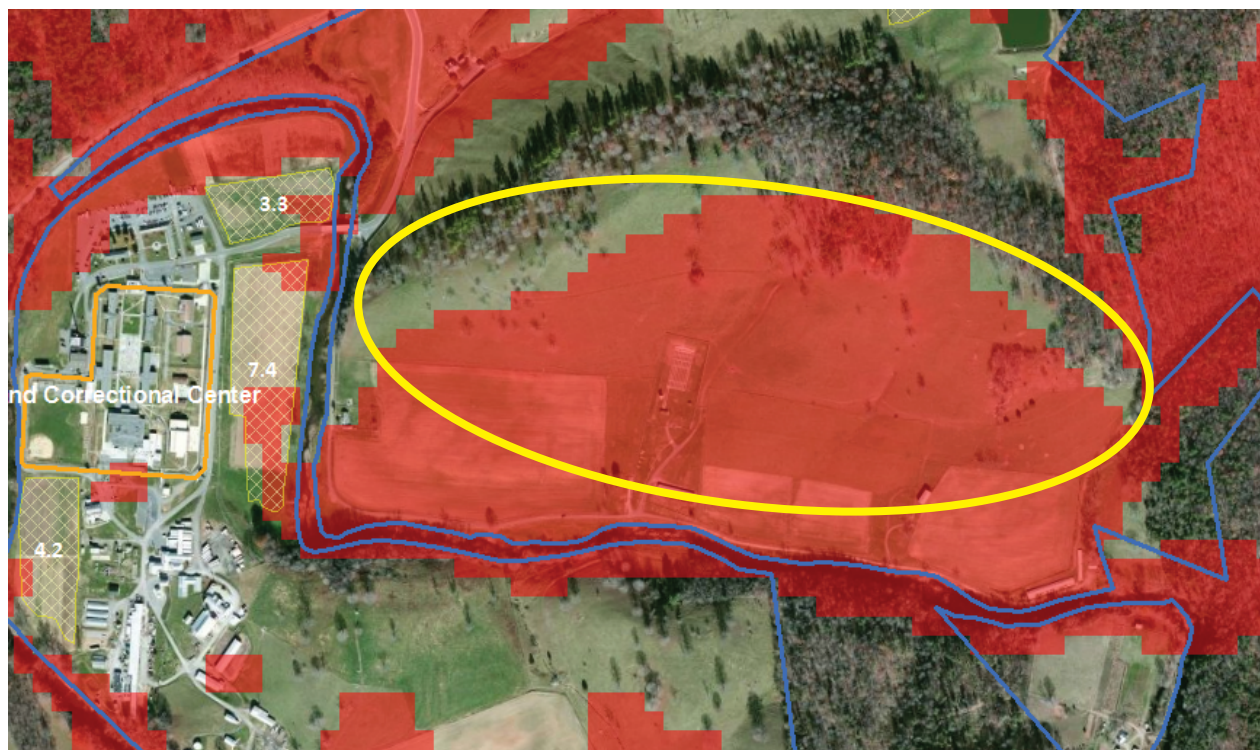


Esri ArcGIS Screenshot



The property has severe slopes and open areas are drawn around the slopes.

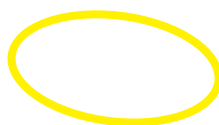
Esri ArcGIS Screenshot



This property could yield more available area if south facing slopes are utilized.
The solar developer will be the best source to determine which areas can host PV.

Above area in image is approximately 40 acres facing south.

(Red color in this image are areas facing between 100 and 260 degrees)



Aspect directions

