



## **DRAFT Statement of Work and Cost Estimate**

This Project Agreement is by and between the St. Mary's County Government, Department of Land Use and Growth Management and Chesapeake Conservancy's Conservation Innovation Center (CIC). The CIC agrees to provide the Services described below for the Price indicated below effective as of August 7, 2020 which is fully incorporated herein.

### **I. Services**

The following Services will be provided by CIC to St. Mary's County (collectively referred to as the "Services"):

1. Using the methodology developed by Chesapeake Conservancy for the study and report, *Solar Siting Methodology for State and Local Governments, Pilot: Baltimore County and City*, carry out the development of a GIS model and analysis for optimal solar siting for St. Mary's County, MD.

Through completing the analysis, the Conservancy will complete a variety of tasks, including, but not limited to:

- a. First identify legally and technically feasible solar sites, screening out areas where zoning, protection status or other factors preclude solar energy development.
  - i. Utilize geospatial data layers including county zoning data, parcel data layers, protected areas, electric transmission and distribution lines, as well as any other important data layers identified.
- b. Identify optimal solar siting for St. Mary's County, MD, identifying solar energy development opportunities for rooftop solar (residential, commercial, and public sector), solar parking canopies (parking lots >1 acre), degraded or contaminated sites (Voluntary Cleanup Program sites, capped landfills, underutilized industrial sites, etc.), and on county-owned properties.
  - i. Use county GIS data layers and/or collaboration with county GIS team to collect the best available data.
- c. Identify preferred locations for ground-mounted solar energy development including on properties identified in (a), plus rural lands not on prime agricultural soils, and avoiding ecologically sensitive lands including forest, wetlands, and other ecologically sensitive lands.

- i. Screen out protected areas and lands under easement, and Maryland targeted ecological areas. Identify other sensitive lands.
    - ii. Analyze county parcel data against Chesapeake Conservancy’s high resolution (1m) land cover and land use data for tree canopy, impervious surface, agricultural land as well as the USDA soils data layer (SSURGO) to identify prime agricultural lands.
    - iii. Score land parcels for suitable solar opportunity area not on forested, environmentally sensitive, or important agricultural land.
  - d. Calculate electricity generation potential of optimal and preferred solar energy development sites.
- 2. Provide the GIS data layers, CSV or Excel database(s) generated through the study.
- 3. Provide a technical report, similar in format and content to the Baltimore County/City study, explaining approach, methods, and conclusions.
- 4. Provide an interactive map viewer with data layers generated in the study, as agreed with St. Mary’s County. Depending on preference this may be hosted by CIC or by the County. Please note that as priced, we assume a standard web application developed using Esri’s configurable web application builder. Customized features could be priced at additional cost.

Chesapeake Conservancy would prefer to make these data layers publicly available where possible, as agreed with St. Mary’s County officials. The CIC will work with St. Mary’s County on the release of the products and related communications materials.

## **II. Pricing**

Chesapeake Conservancy’s cost estimate is based on a non-profit rate for services of \$90/hr.

<b>Deliverable</b>	<b>Estimated hours</b>	<b>Cost</b>
Customized geospatial analysis of optimal/preferred solar energy development sites	180	\$16,200.00
Analysis results in GIS database, CSV/Excel data tables	Included above	
Technical Report	60	\$5,400.00
Report editing and layout vendor		\$2,250.00
Map viewer/web application	40	\$3,600.00
<b>Total</b>		<b>\$27,450.00</b>

All services to be completed no later than [Date]. Payment shall be due and payable within 30 days upon invoicing.

For inquiries regarding project/contract services and requests, contact:

Susan Minnemeyer  
Vice President for Technology  
Cell: 202-907-6271  
[sminnemeyer@chesapeakeconservancy.org](mailto:sminnemeyer@chesapeakeconservancy.org)

Signed:

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St. Mary's County

\_\_\_\_\_  
Date

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Joel Dunn  
President and CEO  
Chesapeake Conservancy, Inc.

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Date