

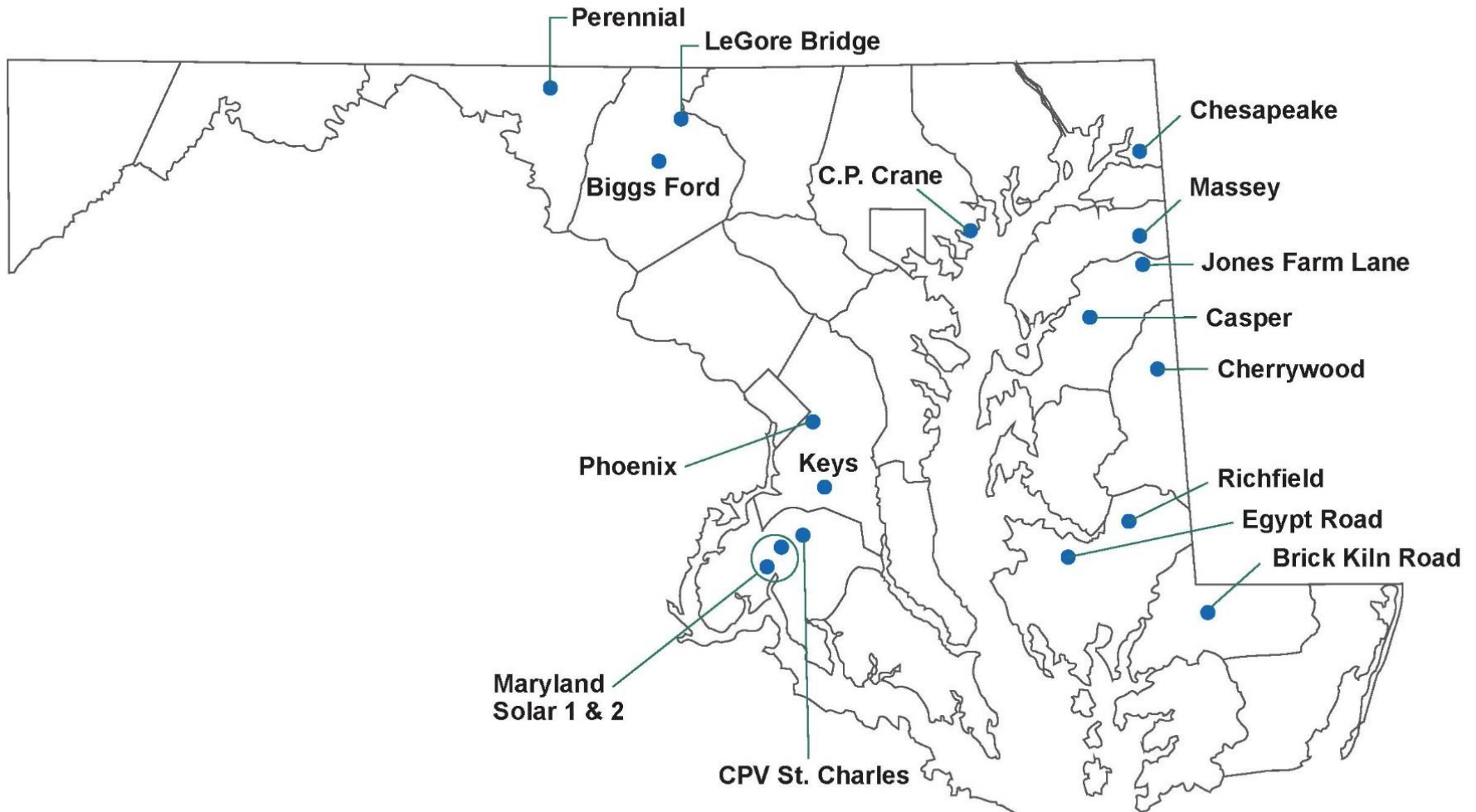
PPRAC

18 June 2018



Recent and Upcoming CPCN Cases: Overview

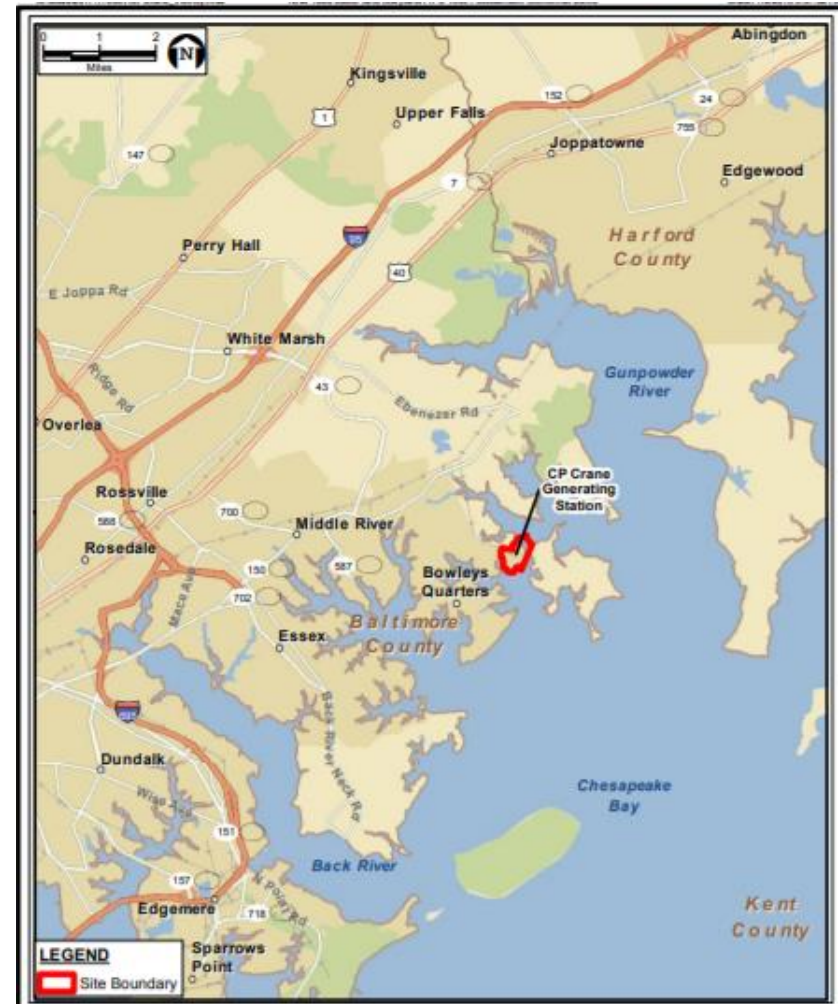
Proposed Plant Locations



CP Crane - 9482



- Modification to existing coal-fired plant in eastern Baltimore County
- Replace coal units with 3 new simple cycle combustion turbines (natural gas fired, with oil backup)
- Total generating capacity will decrease from about 400 MW to 146 MW
- Pre-hearing conference set for 2 July 2018



Frederick & Washington Solar Projects



Legend
Blue pins = Final CPCN awarded
Yellow pins = Case under review

Perennial Solar - 9408



- 8 MW Solar PV proposed by Community Energy on 70 acres of agricultural land in Washington County
- 34,000 PV modules of fixed-tilt design
- Procedural schedule has been suspended since 16 March 2016; applicability of county zoning requirements under consideration by Maryland Special Court of Appeals
- Prime Farmland and Farmland of Statewide Importance

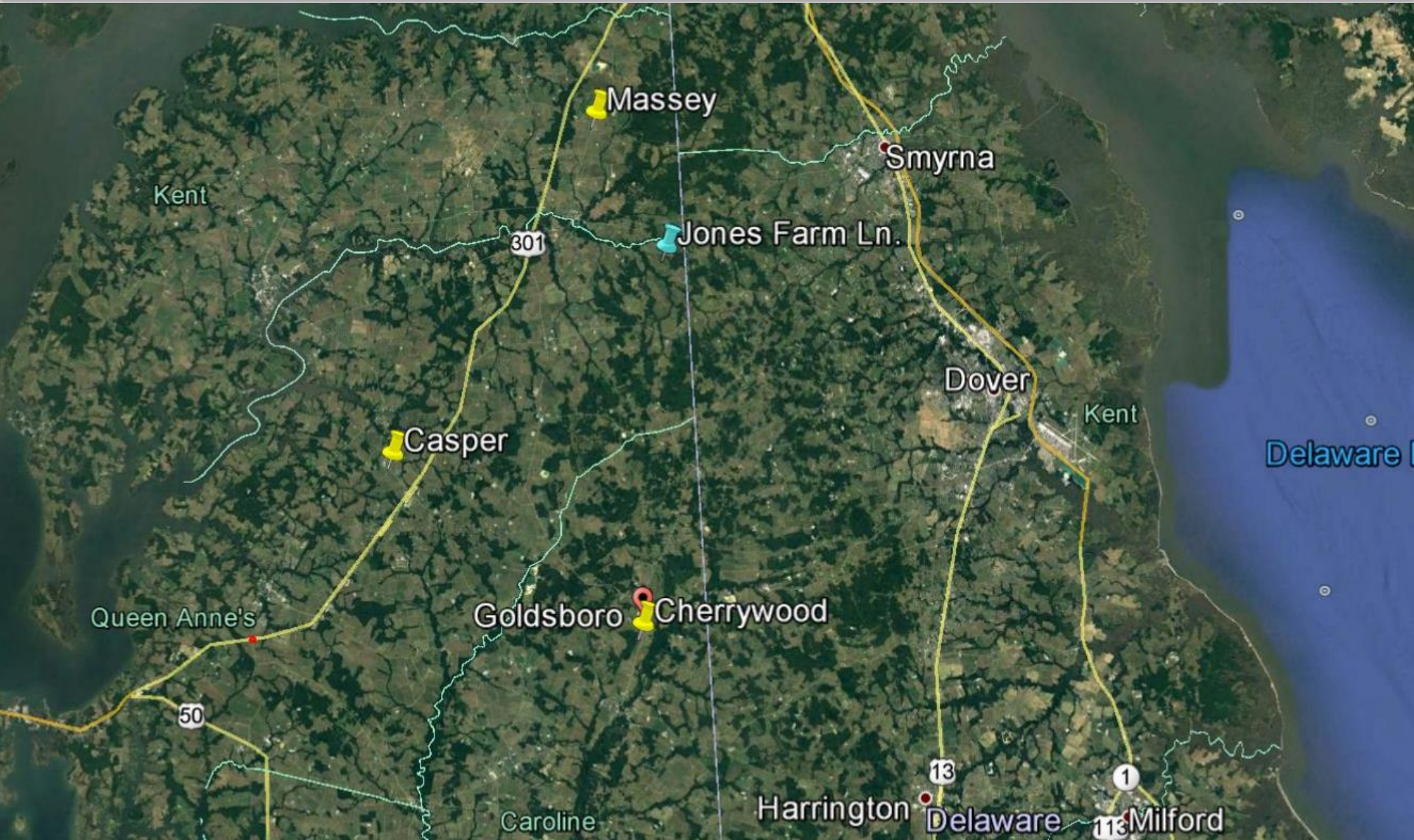


Biggs Ford Solar - 9439

- 15 MW Solar PV proposed by Coronal Energy on 135 acres of agricultural land in Frederick County
- 61,000 panels of single-axis tracking
- Proposed project conflicts with County Solar Bill (17-07) due to Priority Preservation Areas, prime farmland, and site limitations
- Proposed Order denying the CPCN was issued on 5 December 2017; Applicant filed appeal on 4 January 2018.
- Final PSC Order directed Applicant to proceed with floating zone application process with Frederick County, to see if conflicts can be resolved



Queen Anne's, Caroline, and Kent Solar Projects



Massey Solar - 9407

- 5 MW Solar PV proposed by Community Energy on 55 acres of agricultural land in Kent County
- 21,000 panels of single-axis tracking
- Case opened in late 2015, but suspended pending decisions on FCA and solar. Revised Procedural Schedule issued on 28 December 2017.
- Evidentiary hearing held on 2 May 2018; public comment period scheduled to close on 28 June 2018



Casper Solar - 9450

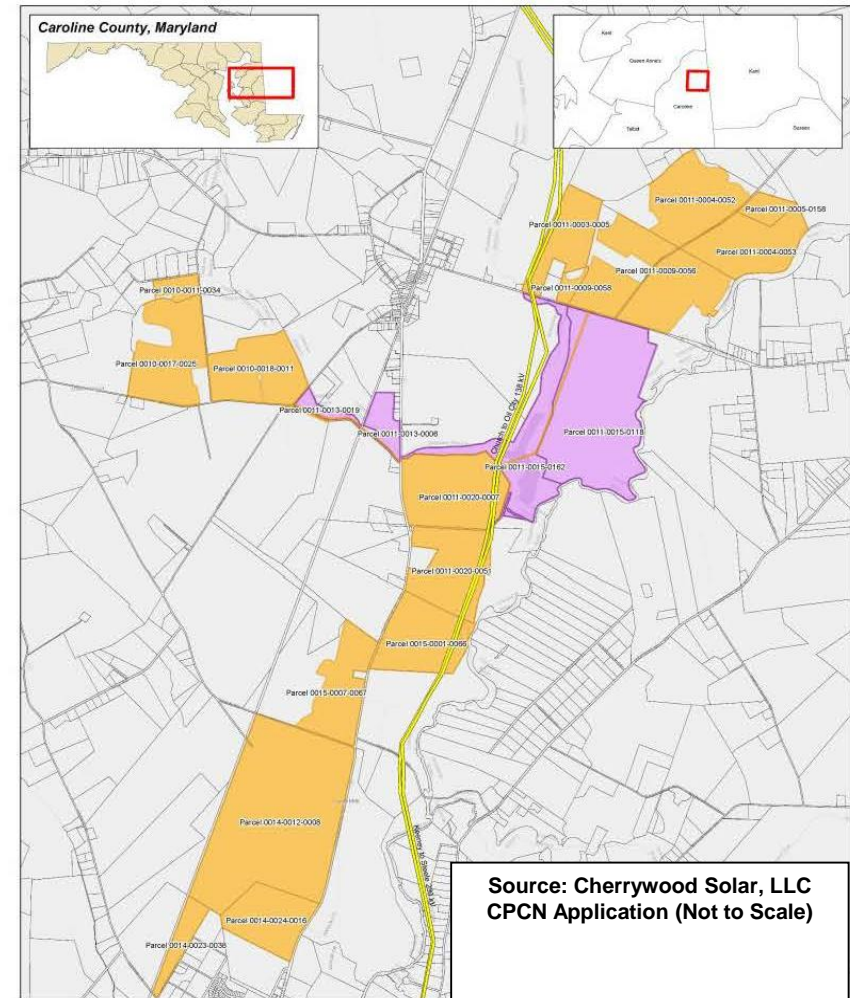
- 36.7 MW Solar PV proposed by Coronal Energy on 360 acres of agricultural land in Queen Anne's County
- 150,000 panels of single-axis tracking design
- Filed April 2017. Procedural schedule is currently suspended.
- Voluntary compliance with FCA administered through County ordinance
- Site is within a Priority Preservation Area



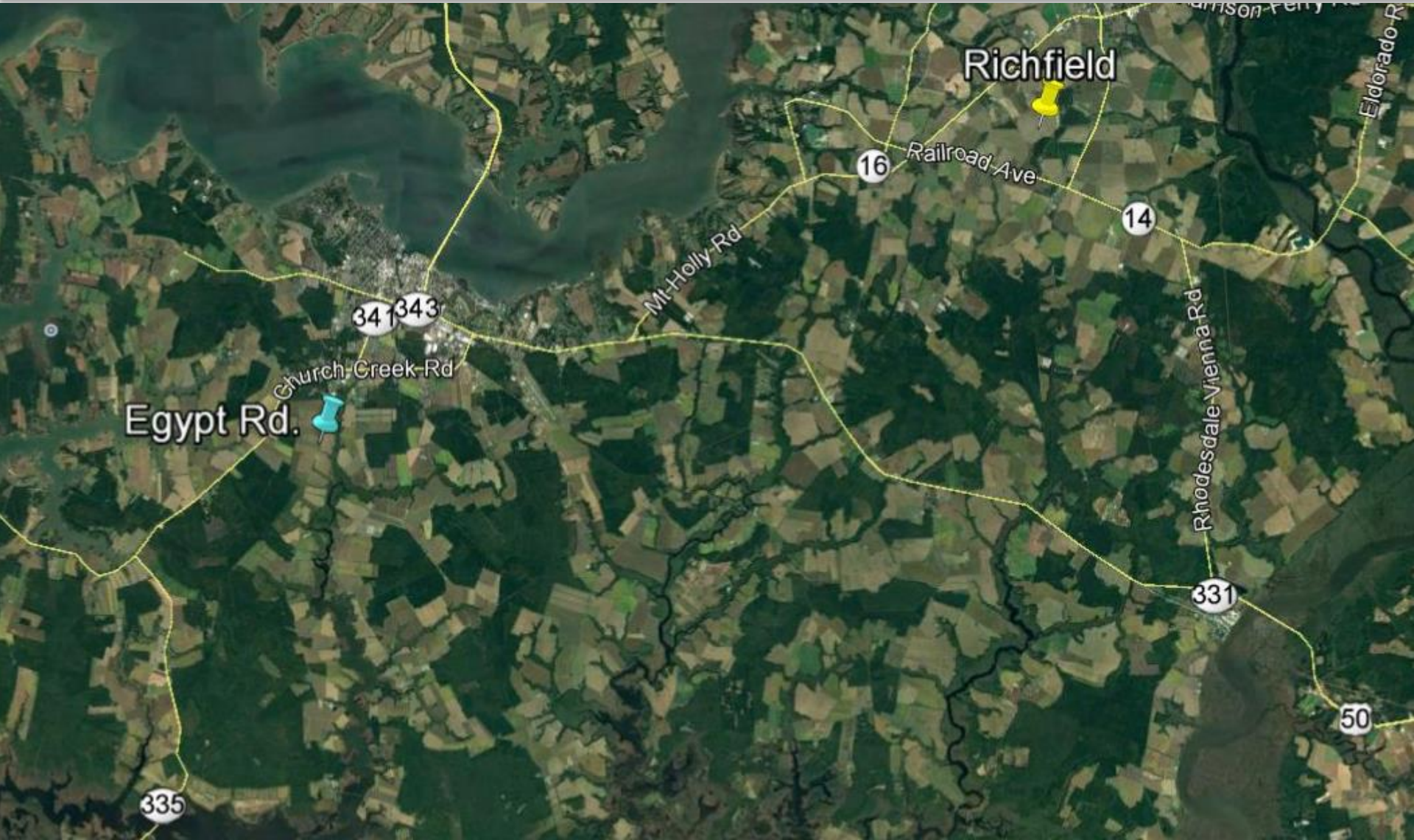
Cherrywood Solar - 9477



- 202 MW Solar PV proposed by Open Road Renewables on 1,085 acres of agricultural land
- 499,806 panels of single-axis tracking design
- Filed January 2018; procedural schedule issued 12 March 2018
- Largest solar project proposed in Maryland to date
- Entire Project area zoned Rural (R1) and current land use is agricultural
- Project area includes portions designated as Prime Farmland



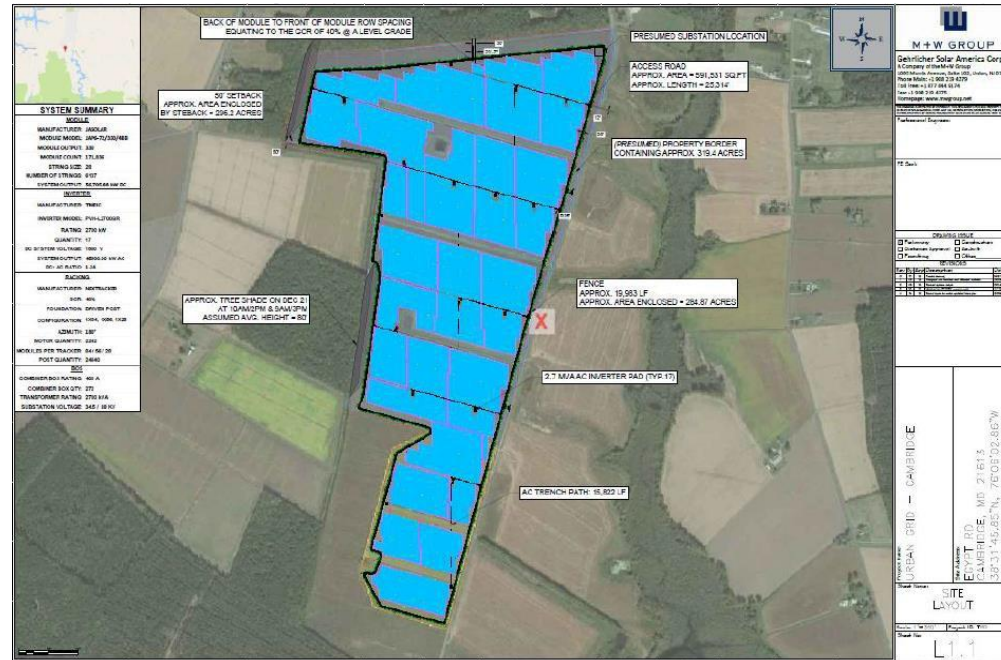
Dorchester Solar Projects



Egypt Road Solar - 9434



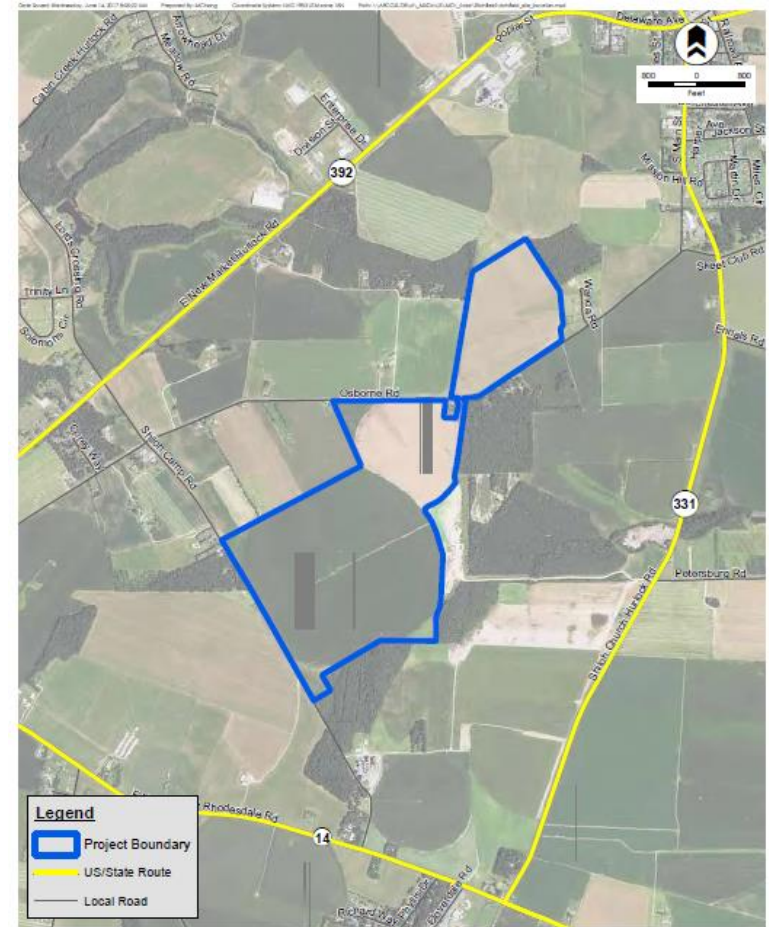
- 45.9 MW Solar PV proposed by Urban Grid on 290 acres of agricultural land in Dorchester County
- 172,000 panels of single-axis tracking design
- Addendum to ERD reflects increase in generating capacity of 51.1 MW
- Voluntary compliance with FCA administered through Cambridge City ordinance
- Site is currently zoned Residential and part of a Priority Funding Area.
- Final Order issued 17 April 2018.



Richfield Solar - 9475



- 50 MW Solar PV proposed by Richfield Solar Energy LLC on a total of 380 acres of land in Dorchester County
- Project includes solar PV array on four parcels and rights-of-way for electrical collection facilities on three parcels
- 203,000 panels installed mounted on single axis tracking system
- Site land zoned agricultural conservation; applied for special exception to Dorchester County in August 2017
- Revised Procedural Schedule issued 21 May 2018



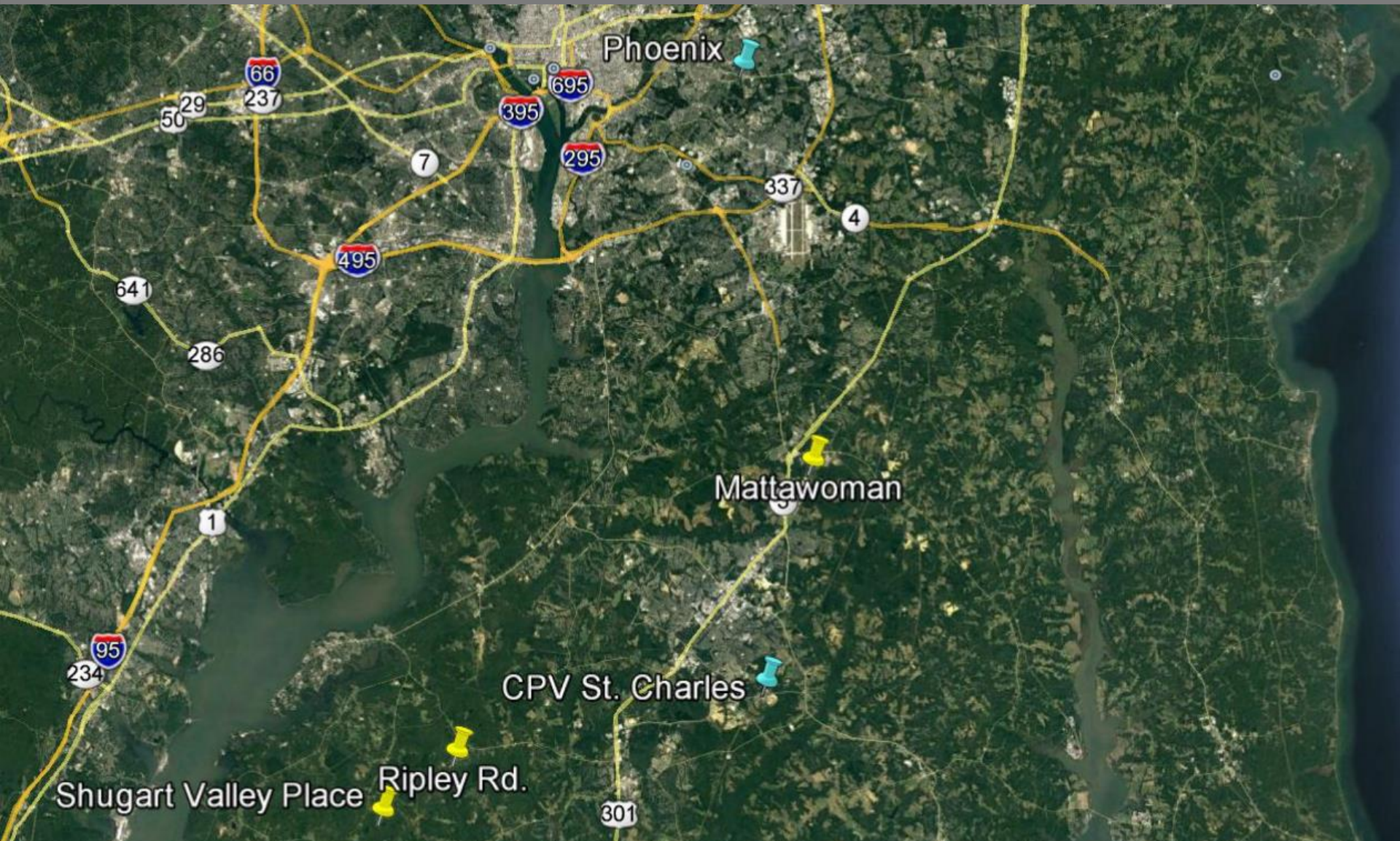
Richfield Solar Site Summary

Dorchester County, State of Maryland

Rev. 00
June 14, 2017

Invenergy

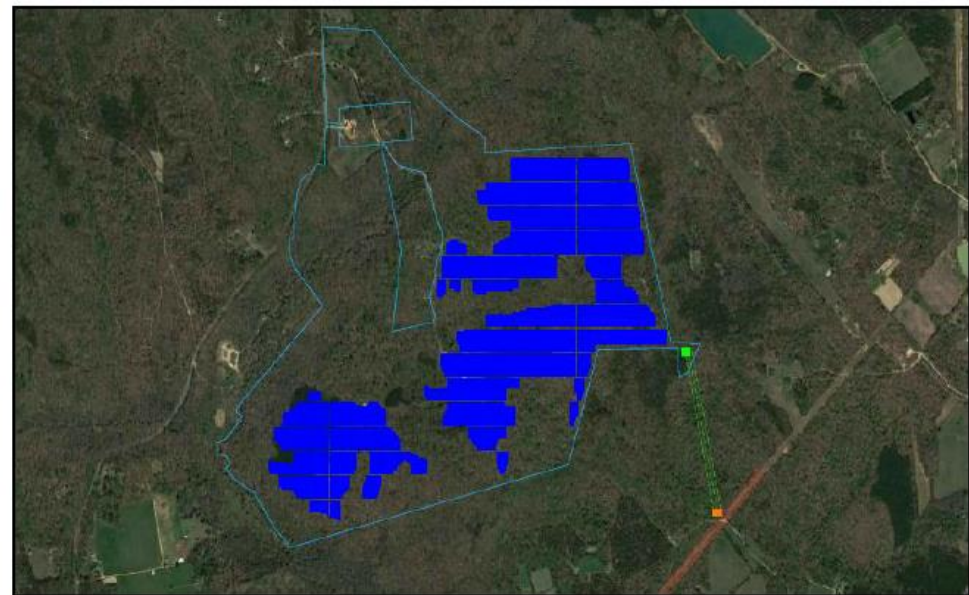
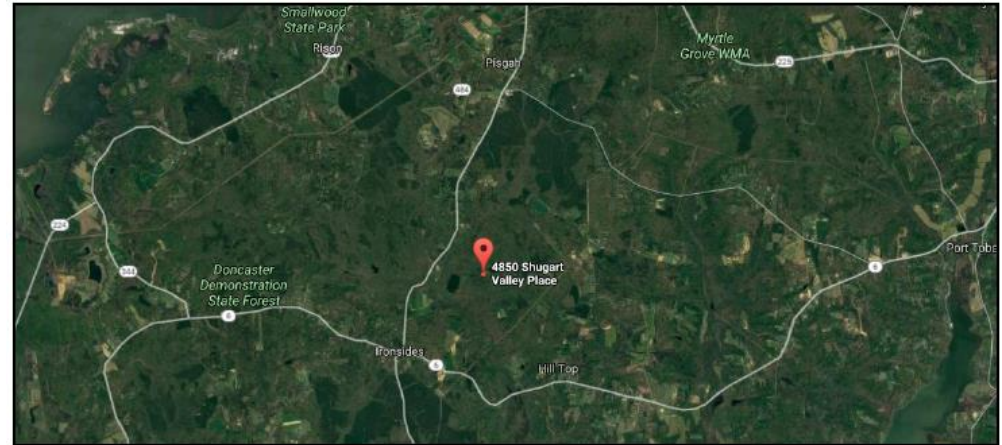
Prince George's & Charles Solar and Natural Gas



Shugart Valley Place Solar – 9464 (MD Solar 1)



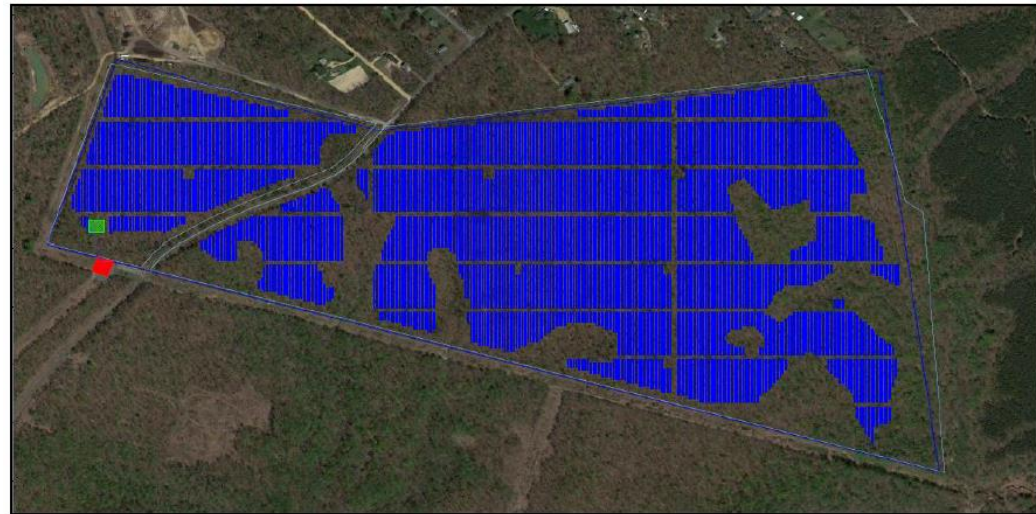
- 32.5 MW Solar PV proposed by MD Solar 1, LLC on 249 acres in Charles County
- Site zoned agricultural conservation; applicant will apply for special exception with Charles Co
- 100,00 – 104,000 panels of fixed-tilt design
- Project has received County Board of Appeals approval
- PPRP filed recommended license conditions and findings on 24 May; evidentiary hearing is scheduled for 20 June



Ripley Road Solar – 9463 (MD Solar 2)



- 27.5 MW Solar PV proposed by MD Solar 2, LLC on 193 acres in Charles County
- 82,000 – 85,000 panels of fixed-tilt design
- Project has received County Board of Appeals approval
- PPRP filed recommended license conditions and findings on 24 May; evidentiary hearing is scheduled for 14 June



Mattawoman Solar - 9469

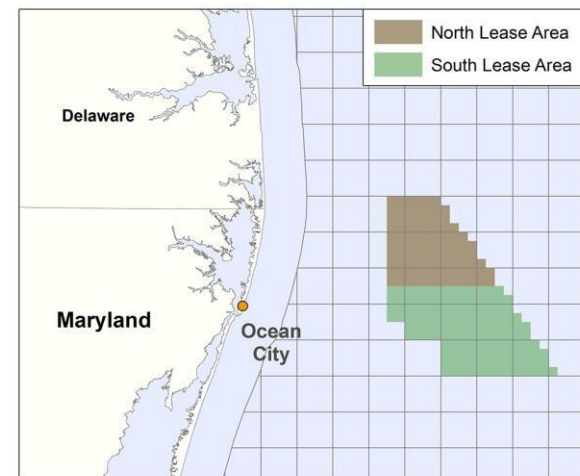
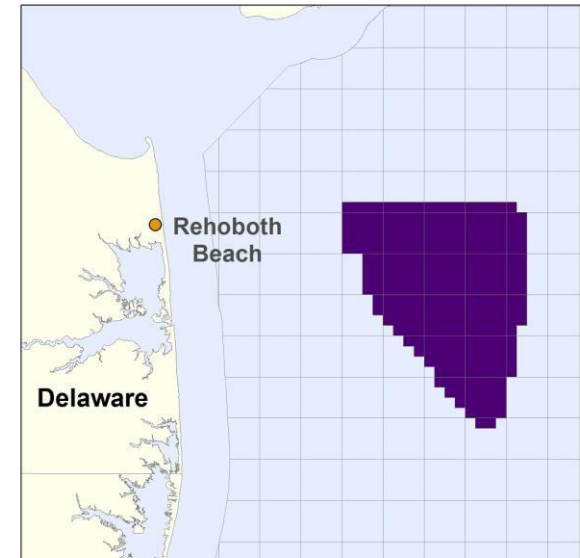


- 10 MW Solar PV proposed by Energy Ventures, LLC. 57 acres.
- 35,500 panels of fixed-tilt design
- Filed in December 2017; procedural schedule is currently being negotiated.
- Site is owned by Soil Safe, Inc., which specializes in treating and recycling contaminated soils. Project will be constructed on an engineered fill pad constructed using processed soils.



Offshore Wind - 9431

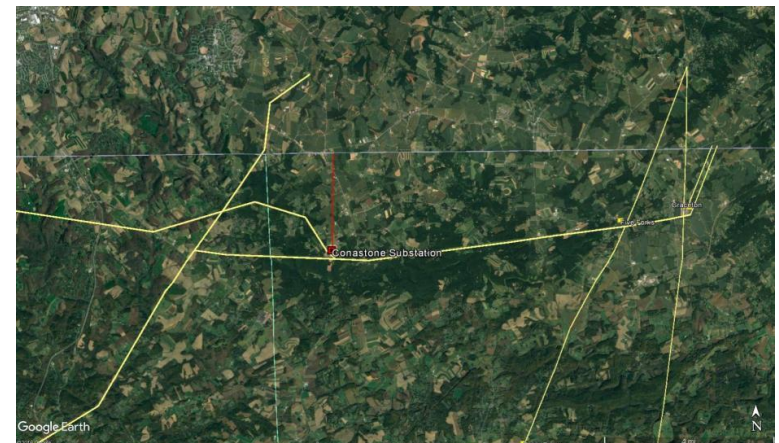
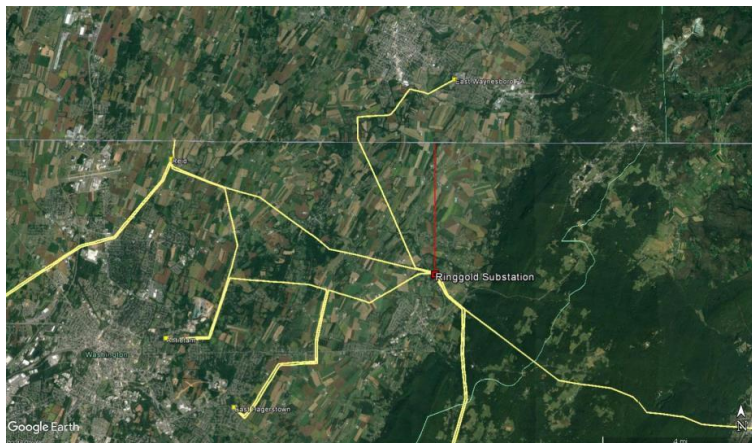
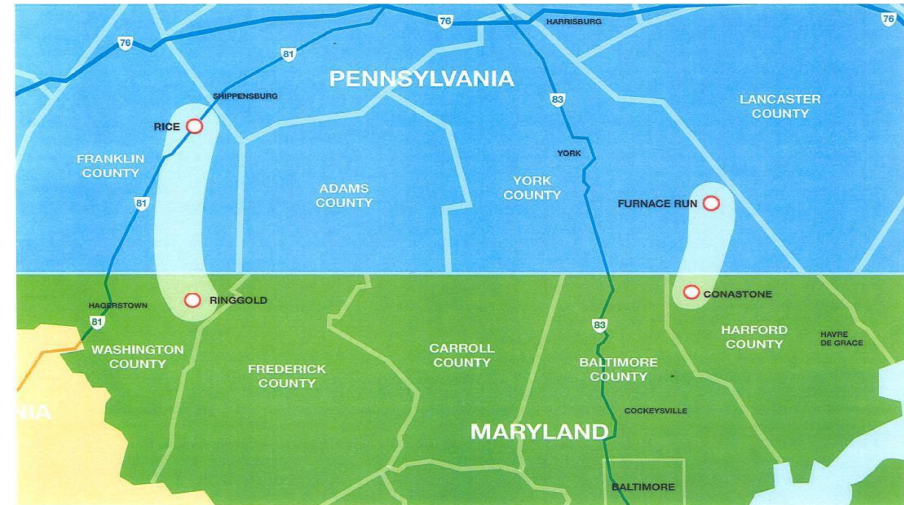
- Two projects considered by PSC for ORECs award:
 - US Wind – 248 MW in MD lease area; DE interconnection
 - Skipjack – 120 MW in DE lease area; MD interconnection
- PSC Evidentiary Hearings spanned two weeks in March 2017; Order 88192 issued 11 May 2017 accepting both projects – 368 MW of OSW; on 25 May 2017 US Wind submitted a notice of acceptance of conditions
- PPRP's role uncertain; only Skipjack's export cable would cross MD State waters and interconnect with substation north of Ocean City
- PPRP could also participate in Federal reviews of the projects as a cooperating agency
- Both projects propose using Sparrows Point, Baltimore for turbine staging and construction



Transource – Independence Energy Connection Project



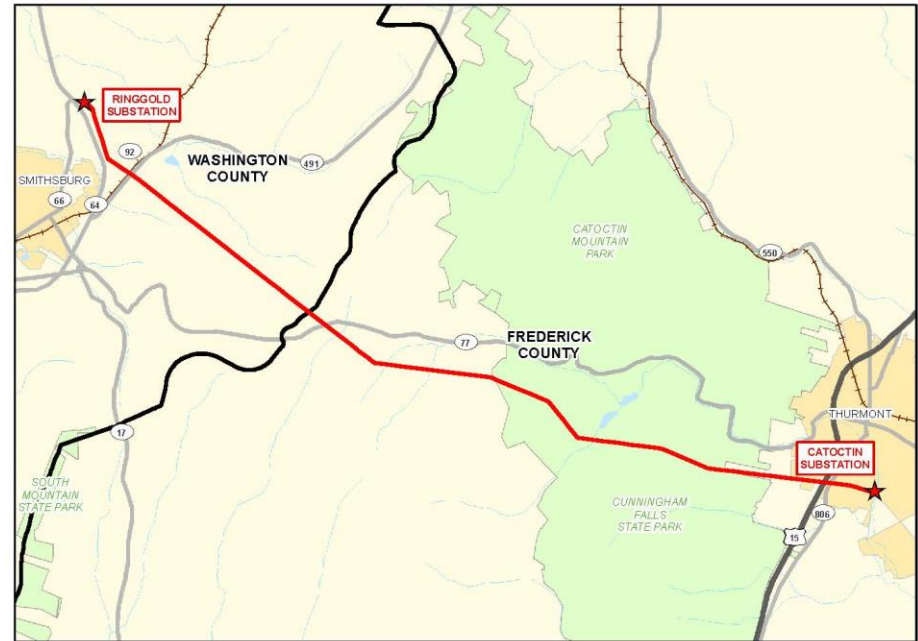
- Market Efficiency Project through PJM's RTEP process
- Two 230-kV T-lines interconnecting PA and MD substations – Washington and Harford Counties
- Applicant filed 27 December 2017
- Transource to file supplemental testimony by 29 June 2018
- PPRP to file State review and findings on 16 November 2018



Ringgold-Catoctin Transmission Rebuild Project - 9470



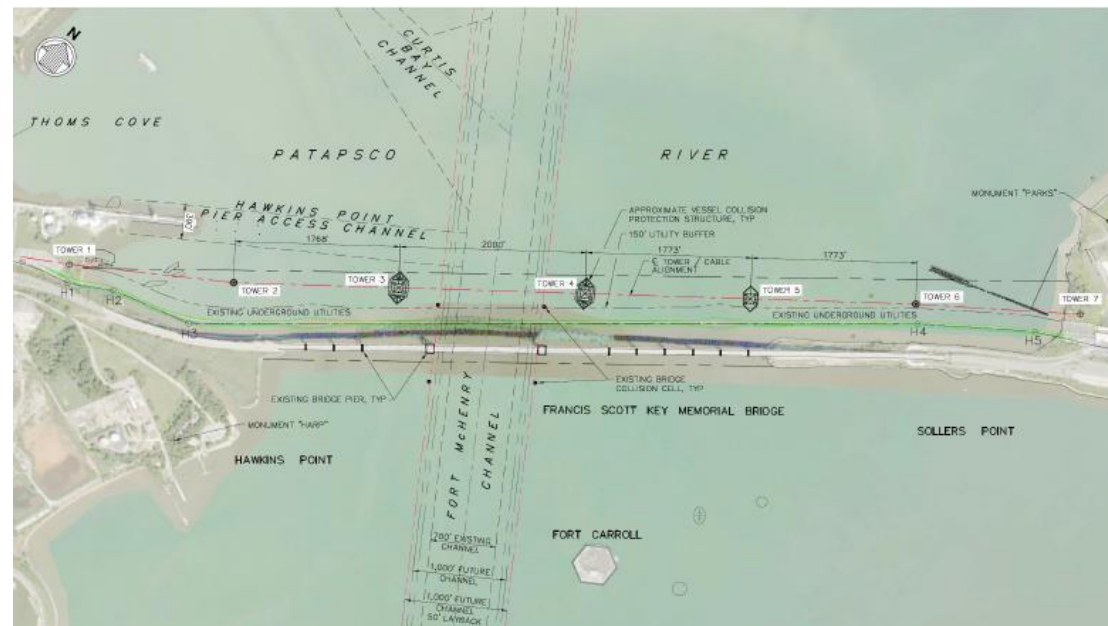
- Rebuild of an existing 9.8-mile single-circuit 138 kV line as a single-circuit 230-kV line constructed largely within the existing ROW
- The ROW runs through a variety of land use types, including undeveloped forest and wetland areas as well as agricultural land.
- Project is required to address thermal reliability issues expected to arise as a result of a separate transmission line project (the Transource Independence Energy Connection Project, PSC Case 9471)



- The CPCN Application was filed on 12/22/17.
- Procedural schedule currently under negotiation to allow Applicant time to provide necessary studies/information.

Baltimore Harbor Crossing

- BGE to replace existing 230 kV lines beneath Baltimore Harbor with overhead T-line
- Existing lines are near end of life and direct replacement infeasible
- PRRP continues pre-application discussions with BGE on identifying resource issues and alternatives
- Project planning must consider USACE's "50-Foot Project," which is evaluating widening existing deep-draft channels
- CPCN filing is anticipated in mid 2018
- BGE has already suggested creative T-line tower designs



PJM Queue – Potential Solar



Queue/OASIS ID	Name	State	Status	Description	Transmission Rights			Phases & Agreements		Dates
					MFO	MW Energy	MW Capacity	MW In Service	Project Type	Fuel
AB1-141	Church-Wye Mills 138 kV I	Maryland	Active	DPL	19.8	19.8	13.5		GI	
AB1-142	Church-Wye Mills 138 kV II	Maryland	Active	DPL	19.8	19.8	13.5		GI	
AB1-162	Price 25kV	Maryland	Active	DPL	16.7	16.7	6.34		GI	
AB1-176	Price 25kV II	Maryland	Active	DPL	9	9	3.4		GI	
AB2-032	Church-Price 69kV III	Maryland	Active	DPL	20	20	13.6		GI	
AB2-036	Church-Steele 138kV	Maryland	Active	DPL	92	92	34.9		GI	
AB2-037	Keeney-Steele 230kV	Maryland	Active	DPL	202	202	76.7		GI	
AB2-063	Price 69kV	Maryland	Active	DPL	20	20	7.6		GI	
AB2-084	Costen 25kV	Maryland	Engineering and Procurement	DPL	10	10	3.8		GI	
AB2-120	Piney Grove-New Church 138kV	Maryland	Active	DPL	100	100	38		GI	
AB2-133	Chestertown- Church 69kV	Maryland	Active	DPL	55.8	55.8	24.6		GI	
AB2-135	Church-Kent 69kV	Maryland	Active	DPL	64	64	29.9		GI	
AB2-136	West Cambridge- Vienna 69kV	Maryland	Active	DPL	51.1	51.1	24.8		GI	
AB2-153	Church-Price 69kV IV	Maryland	Active	DPL	20	20	7.6		GI	
AB2-157	Prince George's County 12kV	Maryland	Active	PEPCO	2.5	2.5	0.8		GI	

Future Projects



- **Citizens UB Solar, Union Bridge, Carroll County**
(Case 9483, filed 8 June 2018)
- **Rock Springs Natural Gas Plant**
- **Catoctin Solar**
- **Roberts Station Solar and Price Station Road Solar**
- **OneEnergy Renewables**
- **Skipjack Solar**
- **Pocomoke Solar**
- **Calvert Energy, St. Mary Antiochian**
- **Calvert Energy, Tuckahoe SEC site**
- **Fritillary Solar**
- **Utility Scale Solar, Chesapeake City**
- **OneEnergy Renewables, East New Market**
- **Porters Mill Road Solar**
- **OEP/DG2E/Gas 2, Atlantic Sunrise Project**
- **Standard Solar/Randall Farm**
- **Calico Solar**
- **Oaks Landfill Solar**
- **Mount Vista Park, Solar City**
- **Hernwood Landfill, Solar City**
- **Parkton, Solar City**
- **Southwest Area Park, Solar City**
- **Caroline County**
- **Kieffer-Funk Road Solar**
- **Maryland Solar Holdings**
- **Foxhall Solar**
- **Property of North East**
- **Bluegill Solar**
- **Garcia Solar Array**
- **Fuji Solar**
- **Finley Solar**
- **Unitas Solar**
- **Vandelay Solar**
- **Cheltenham**
- **Newland Park Landfill**

Questions?

APPENDIX



PROJECTS THAT HAVE RECEIVED FINAL PSC
ORDERS SINCE THE LAST PPRAC PRESENTATION

LeGore Bridge Solar - 9429

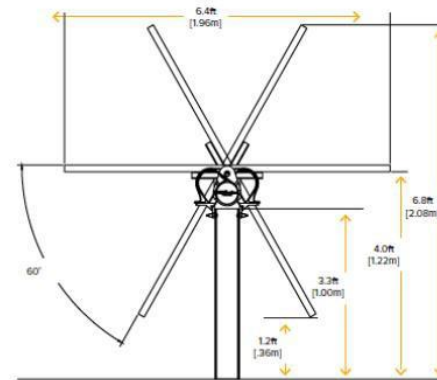
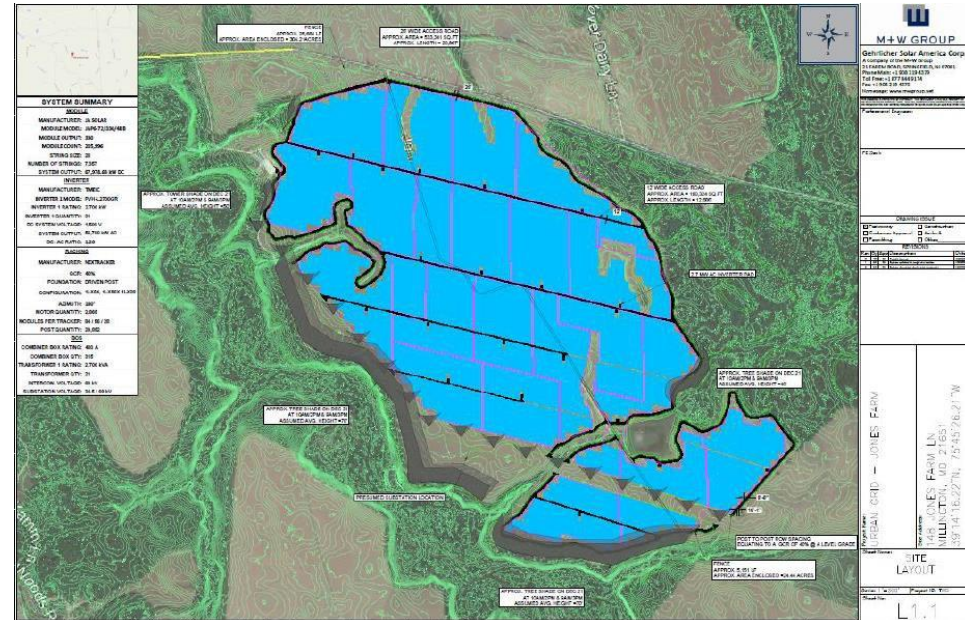
- 20 MW Solar PV proposed by Coronal Energy on 170 acres of agricultural land in Frederick County
- 82,000 panels of single-axis tracking
- Final Order issued on 23 March 2018, granting CPCN (despite appeal filed by Frederick County)



Jones Farm Lane Solar - 9436

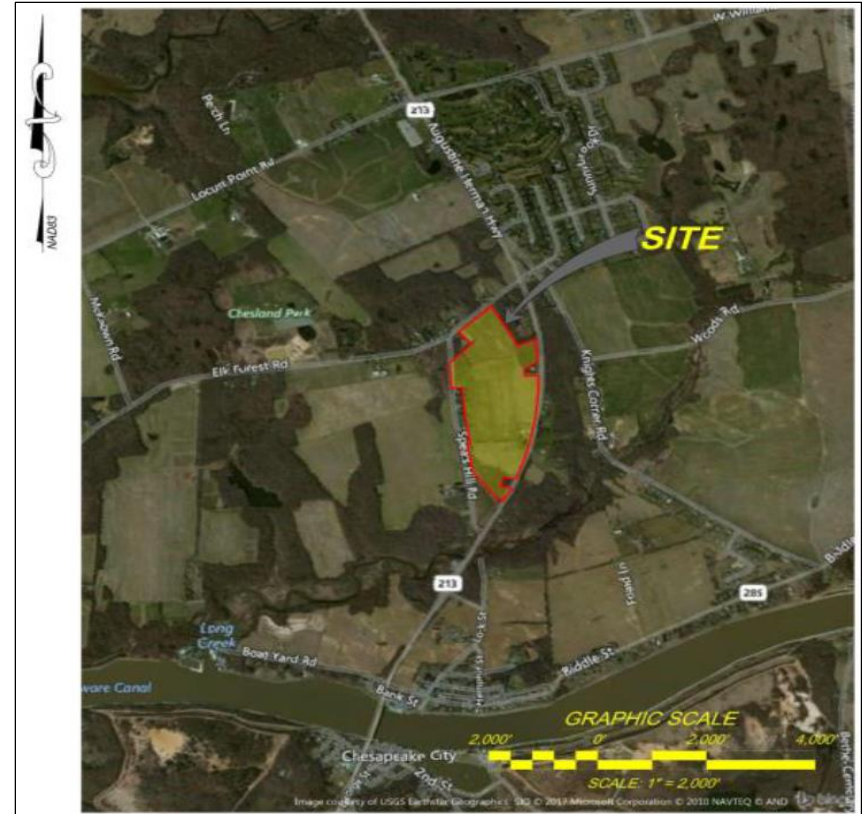


- 56.7 MW Solar PV proposed by Urban Grid on 337 acres of agricultural land in Queen Anne's County
- Applicant updated data in addendum to the ERD on 6 September 2017 showing increased generating capacity of 64 MW
- 205,996 panels of single-axis tracking design
- Voluntary compliance with FCA administered through County ordinance
- Proximity to Critical Area required adjustment to site design
- Final Order issued 17 April 2018



Chesapeake Solar - 9451

- 9.0 MW Solar PV proposed by Chesapeake Solar, LLC on 55 acres in Cecil County
- 40,000 PV mounted on a single axis horizontal tracking system
- Property zoned northern agricultural-residential
- Filed in May 2017
- Final Order issued on 6 April 2018



Brick Kiln Road Solar - 9454



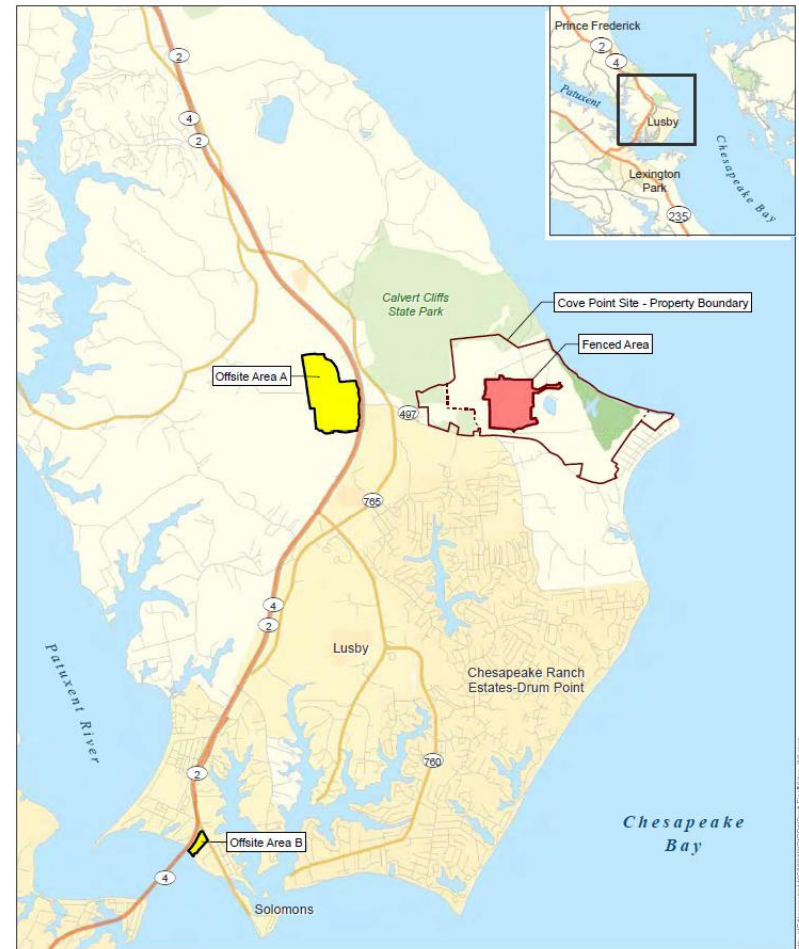
- 5.4 MW solar array proposed by Brick Kiln Road Solar, LLC (a subsidiary of Urban Grid Solar, LLC) in Wicomico County
- Project will occupy 36 acres of a 74 acre site
- 23,240 PV mounted on a single axis horizontal tracking system
- Property zoned mainly industrial with small part zoned residential
- Filed in June 2017
- Final Order issued 6 February 2018



Dominion Cove Point - 9318



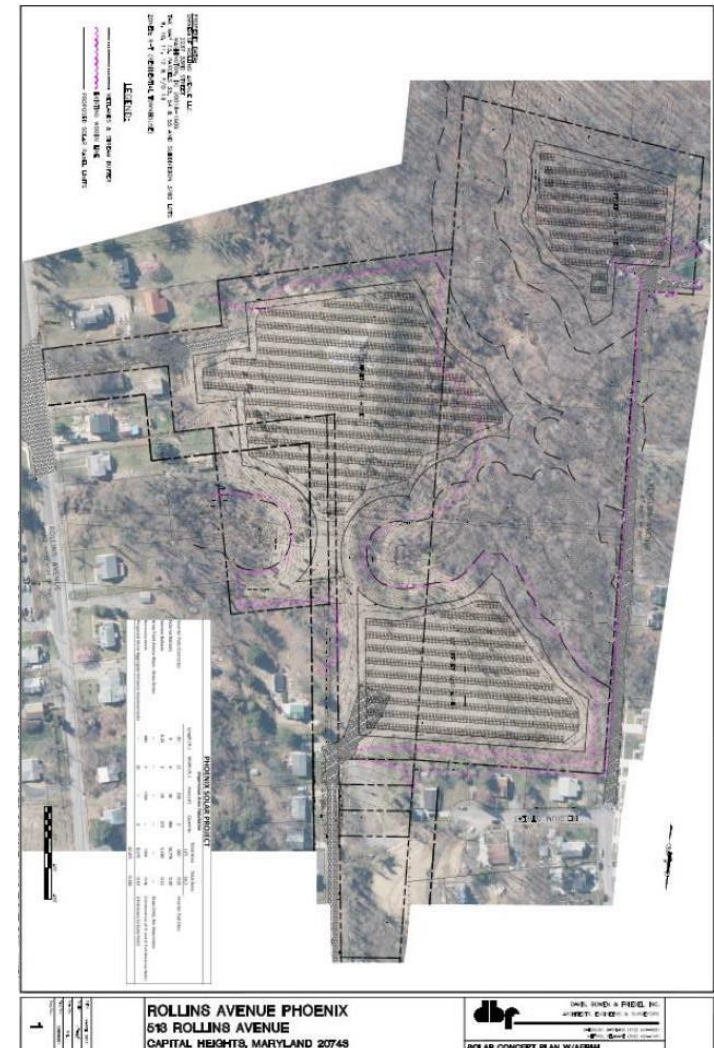
- CPCN granted to Dominion Energy Cove Point LNG, LP on 30 May 2014 to construct 130 MW combined cycle generation station in Calvert County; Dominion filed for modification to CPCN on 10 August 2017
- Amendment requests to modify air permit to remove a VOC numeric limit and allow for operating flexibility
- Final Order Granting modification issued on 6 February 2018



Phoenix Solar - 9446



- 2.5 MW Solar PV proposed by SolSystems on 12 acres of reclaimed landfill in Prince George's County
- Site is zoned Residential/Townhouse
- 6,642 panels of fixed-tilt design
- Filed in April 2017; PPRP direct testimony filed 13 September 2017
- PPRP filed letter with amended licensing conditions which applicant accepted on 2 October 2017
- Final Order issued 9 November 2017



CPV St. Charles - 9437

- 725 MW Natural Gas-fired combined-cycle facility in Charles County under construction
- Modification under Case 9437 to increase facility output by 25 MW
- Achieved through technology upgrade, increase of operations, and revision of CPCN conditions to reflect new air permit review requirements
- Final Order granting the modification was issued on 16 March 2018



PREVENTION OF SIGNIFICANT
DETERIORATION (PSD)
MAJOR MODIFICATION TO
CERTIFICATE OF PUBLIC CONVENIENCE
AND NECESSITY (CPCN)

ST. CHARLES ENERGY CENTER
725-MW COMBINED-CYCLE
PROJECT