

A Developer's Perspective

Presented by: Phillip A. Guerra, J.D., CPL



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Types of Solar Projects



Types of Solar Projects

 Behind-the-meter (BTM) – a system that generates power/electricity that can be used <u>on-site</u> without passing through a meter.¹

• Front-of-the-meter (FTM) – a system that generates power/electricity to any location <u>off-site</u> that must pass through the meter before reaching the end-user.²









Types of Solar Projects

- What type of solar project is being proposed?
 - BTM or FTM?
 - Community solar (FTM)
 - Residential (BTM)
 - Utility-scale (FTM)
 - What is the total acreage of the proposed project?







- Land criteria:⁶
 - Proximity to substation
 - Proximity to power/electric lines
 - No wetlands
 - No floodplains
 - Avoid bad topography (e.g., slope 7% or less)
 - Avoid shading



⁶ Educational purposes only; land criteria for a solar projects may vary from project to project, state to state; solar developer's risk tolerance may vary too

- Land criteria:⁷
 - Is there an airport within two miles?
 - Is there a cell tower on the property?
 - Avoid crossing over a railroad easement
 - Avoid proximity to cemeteries, golf courses, residential neighborhoods



⁷ Educational purposes only; land criteria for a solar projects may vary from project to project, state to state; solar developer's risk tolerance may vary too

- Land criteria (specific to Pennsylvania):⁸
 - Is the property in Clean and Green?⁹
 - Is there a conservation easement on the property?
 - Is there oil and gas activity in the area?¹⁰

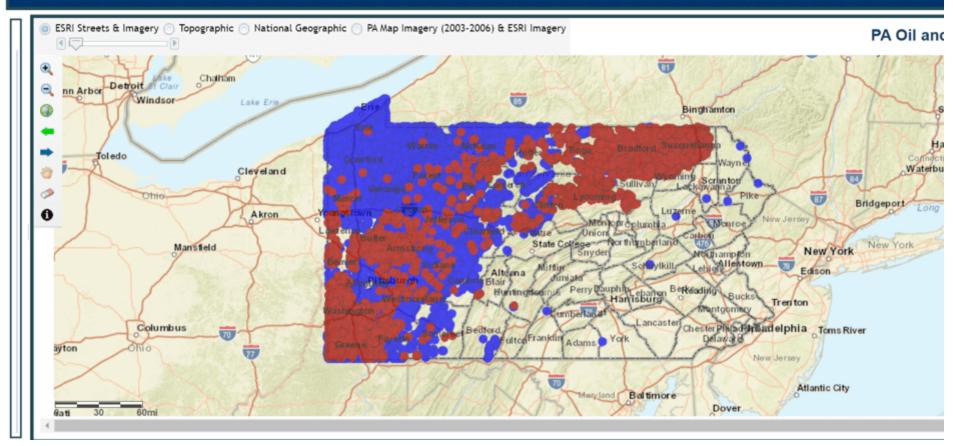


⁸ Educational purposes only; land criteria for a solar projects may vary from project to project, state to state; solar developer's risk tolerance may vary too

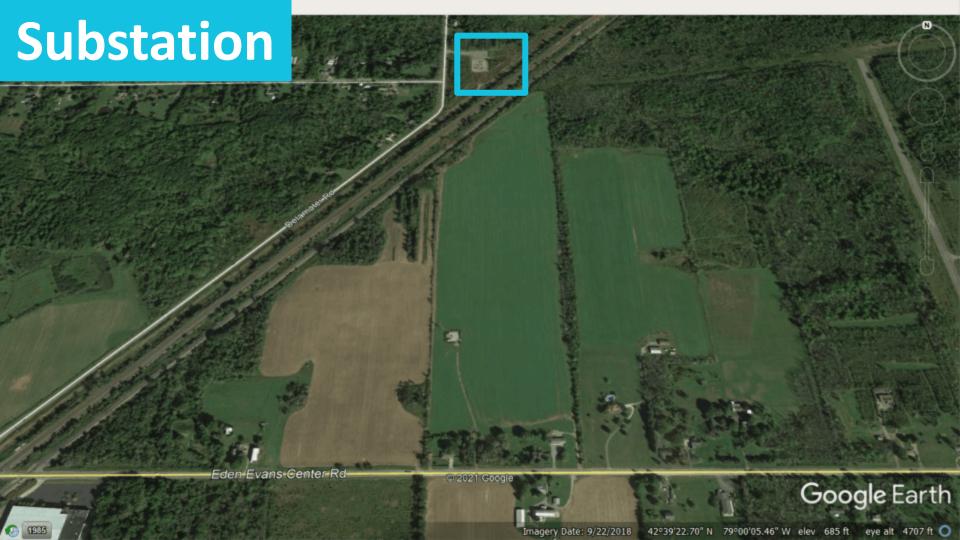
⁹ Agriculture.pa.gov/Plants Land Water/farmland/clean/Pages/default.aspx

¹⁰ Dep.pa.gov

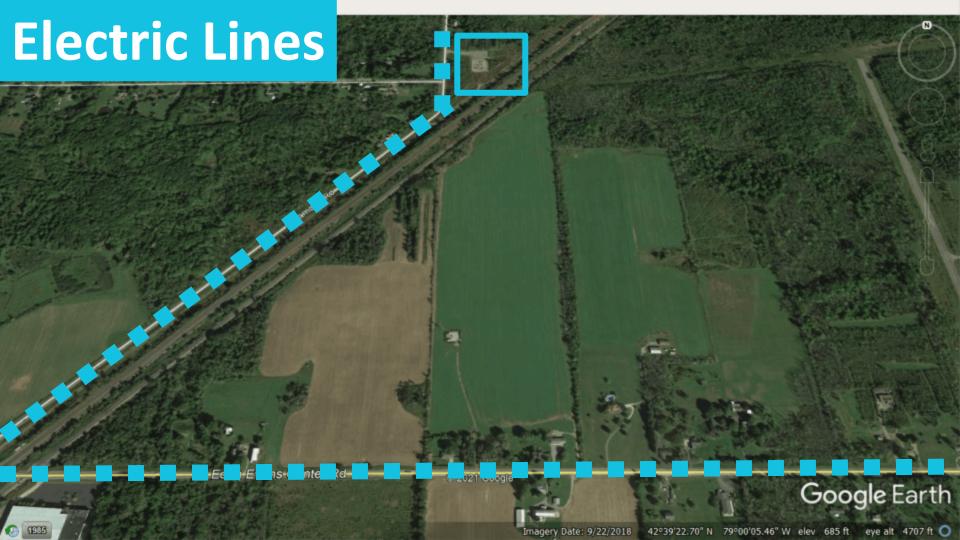




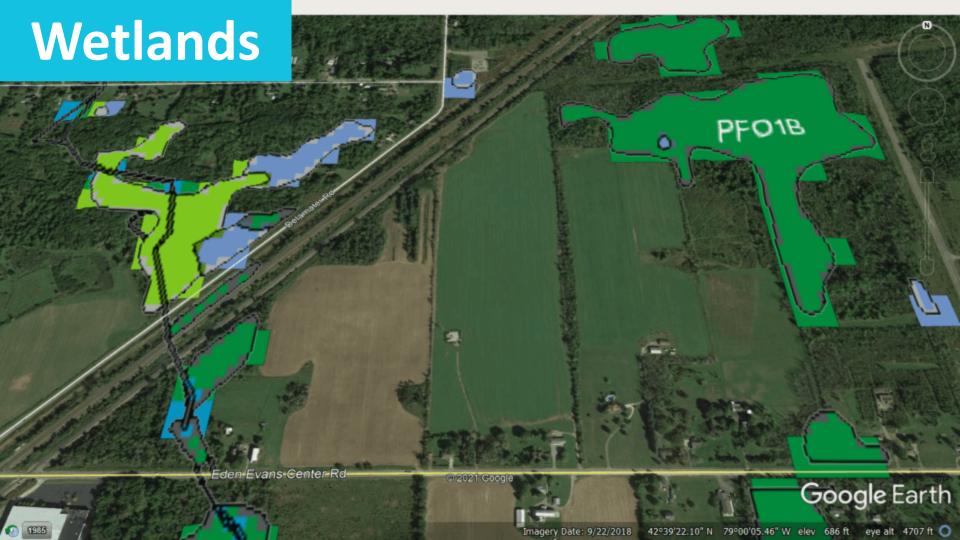


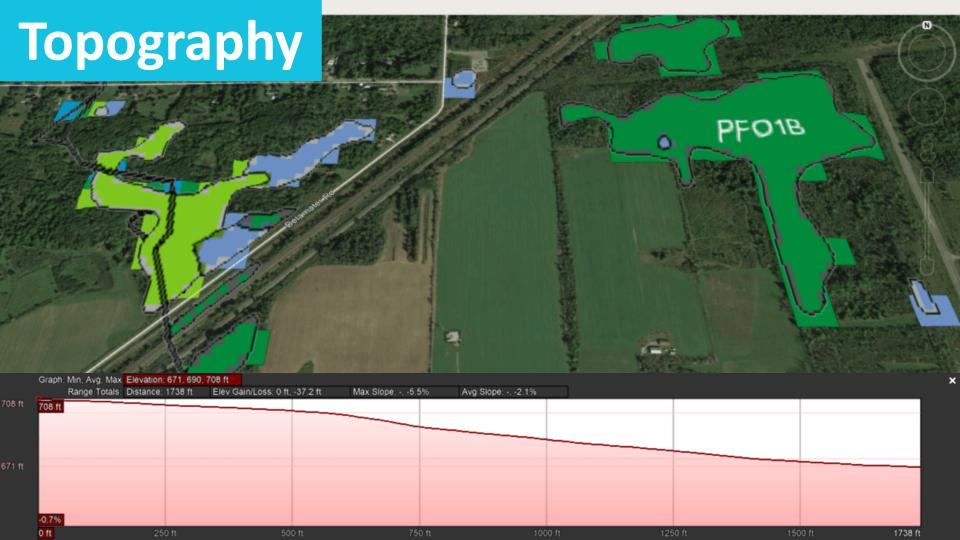


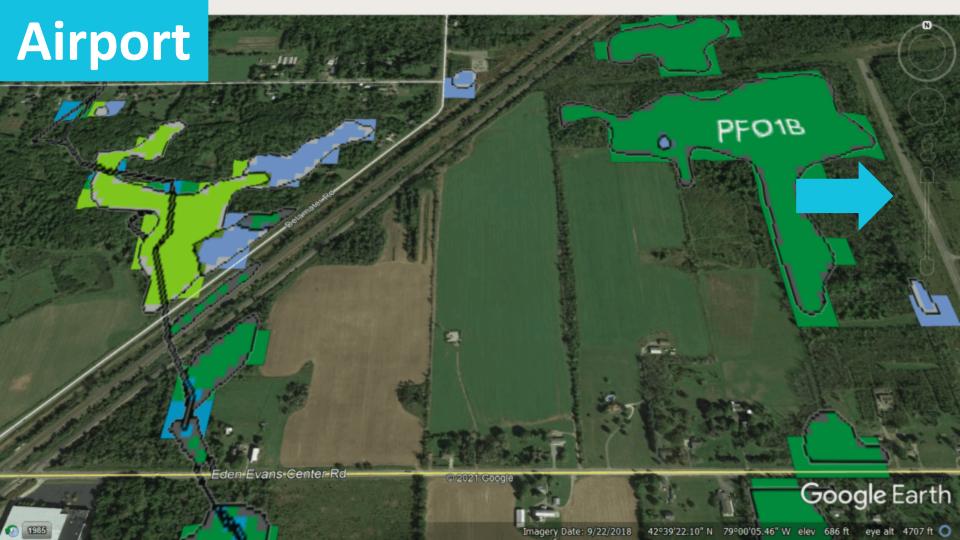


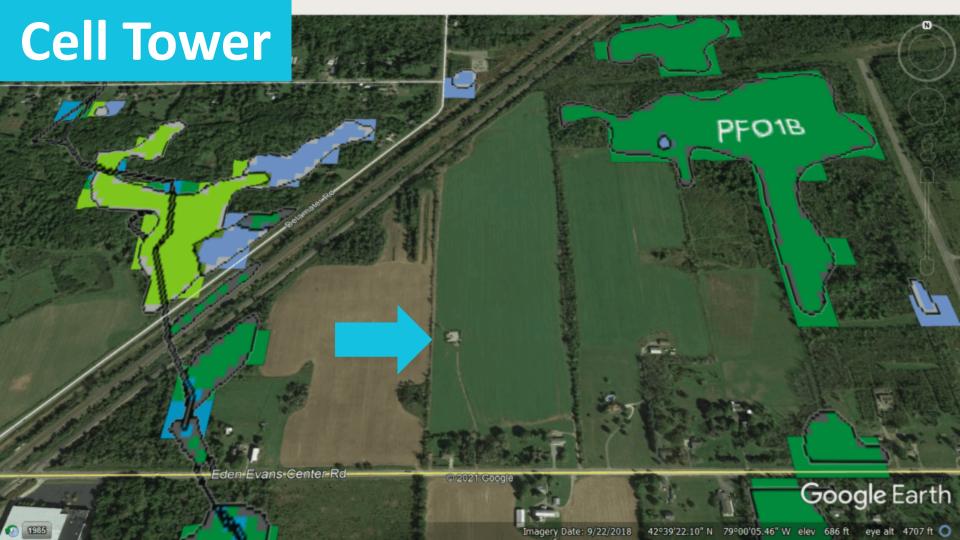


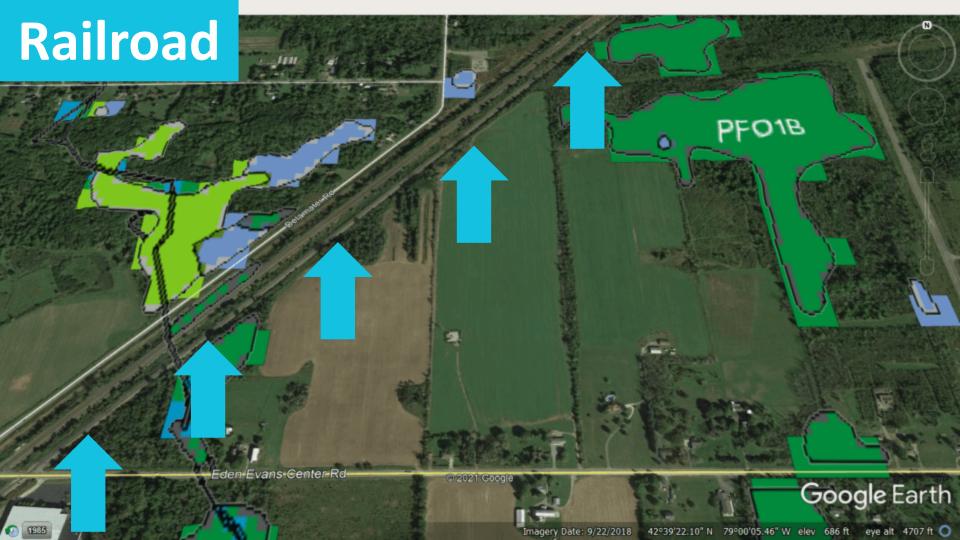


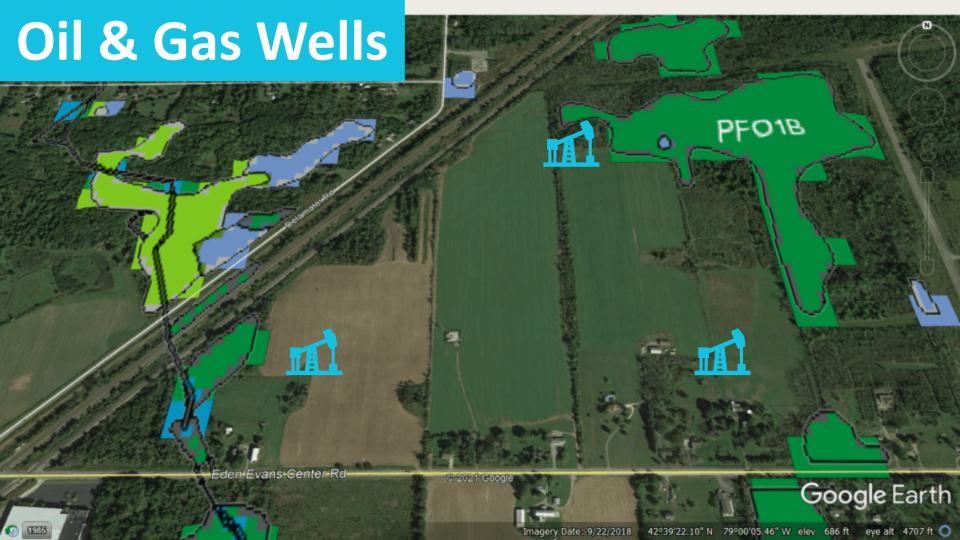














Structuring Your Agreement



Types of Solar Projects

- What type of agreement is being proposed lease, easement, or license?
- Can the solar developer finance the project?





	License	Easement	Lease			
Type of Right	Use	Possessory or non-possessory	Possessory			
Real Property Interest	No	Yes	Yes			
Revocable	Yes	No	No			
Contract in Writing Not required		Required	Required			
Financeable	Maybe	Typically, yes	Yes			
Insurable Maybe		Typically, yes	Yes			
Assignable	Assignable Maybe		Yes			
Type of Solar Projects Canopy		Canopy, Rooftop	Ground Mount, Rooftop			



Structuring Your Agreement

 For a FTM ground mount solar project, most developers will want the landowner to sign a lease.



Structuring Your Agreement

- 1. Option to lease agreement with attached term sheet.
- 2. Option to lease agreement with attached lease.
- 3. Lease agreement with included option period.



OPTION TO LEASE AGREEMENT [Ground Mounted Solar]

TH	IS O	PTION	TO LEAS	E AG	REEN	MENT	(this "	Agreement") is	entered	into this
day	of			, 20	(tl	he "	Effective	e Date"),	by	and	between
 ("Lessor"), and											

WITNESSETH:

- Lessor is the owner of that certain property located in County. , as more particularly described on Exhibit A (the "Property").
- Lessee desires to obtain an option to lease up to a maximum of approximately contiguous acres of the Property as conceptually shown on Exhibit B attached hereto and made a part hereof (the "Leased Premises") for the construction, installation, operation and maintenance thereon of a solar farm and all related generation, storage, transmission and interconnection facilities (the "Energy Facilities").
- Lessor has agreed to grant Lessee an option to lease the Leased Premises for such purposes, subject to the terms and conditions hereinafter set forth.

NOW, THEREFORE, in consideration of the foregoing and the mutual covenants and agreements herein contained, and intending to be legally bound hereby, Lessor and Lessee hereby agree as follows:

Grant of Option. Lessor hereby grants to Lessee the exclusive right and option to lease the Leased Premises, subject to the terms and conditions hereinafter set forth (the "Option to Lease").

EXHIBIT B - TERM SHEET

Basic Lease Terms

Lease Term: An initial term of 30 years, with two renewal terms of 5 years each.

Annual Rent: , with % increases every 5 years thereafter.

Ancillary Rights: During the term of the Lease, the Lessee shall have the right, at no

additional cost, to use existing roads on the Property and to use a portion of the Property for a construction laydown area during the initial construction, major maintenance activities and/or the removal of the Energy Facilities. Lessor shall also, grant Lessee: (A) an interconnection easement; (B) an easement for transmission, distribution and collection cables (including fiber optic cables), conduits, wire and/or lines which carry electrical energy to and/or from the Leased Premises; and (C) an easement for communication cables (including fiber optic cables), conduits, wire and/or lines which carry communications of any nature to and from the Leased Premises.

Ownership Rights: Lessee shall be the sole owner of the Energy Facilities and the energy output produced thereby, as well as any and all tax or other financial

EXHIBIT A - LEGAL

Exhibit A

Legal Description of Property

ALL THAT TRACT OR PARCEL OF LAND, situate in the Township of Huron, County of Erie and State of Ohio, being a part of Lot 52, Town 1, Range 10 of the Holland Land Company's Survey bounded and described as follows:

Beginning at a point in the center of the road leading from Huron to Sandusky, which point is about 1243 feet southerly from the intersection of the north line of said Lot 52 with the middle line of the aforesaid road, and which said point is also the northwesterly corner of the property now owned by Peter M. Tyler and Ragnhild Tyler, and said point is also the southwesterly corner of premises conveyed to David Tyler and one, by deed recorded in the Erie County Clerk's office in liber 10 of deeds at page 12: thence easterly along the southerly bounds of lands now owned by David E. Guerra and one, 225 feet to an iron stake; thence southerly and parallel with the Willow Creek Road, 140 feet to a point; thence westerly and parallel with the first course herein described, 225 feet to a point in the center of the Willow Creek Road; thence northerly along the center of the Willow Creek Road, 140 feet to the point and place of beginning. Contains lien covenant.

ALSO, ALL THAT TRACT OR PARCEL OF LAND, situate in the Township of Huron, County of Erie and State of Ohio; being part of Lot Nos. 44 and 52, Township 1 and Range 10 of the Holland Land Company's Survey; and being further bounded and described as follows:

COMMENCING at a point at the intersection of the centerline of the Willow Creek Road and

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OPTION TO LEASE AGREEMENT [Ground Mounted Solar]

TH	IS OF	PTION TO LEASE	AGRE	EME	NT (this "A;	greement")	is	entered	into this
day	of	,	20	(the	"Effective	Date"),	by	and	between
		("Lessor"), and			("Le	ssee").			

WITNESSETH:

- Lessor is the owner of that certain property located in County. , as more particularly described on Exhibit A (the "Property").
- Lessee desires to obtain an option to lease up to a maximum of approximately contiguous acres of the Property as conceptually shown on Exhibit B attached hereto and made a part hereof (the "Leased Premises") for the construction, installation, operation and maintenance thereon of a solar farm and all related generation, storage, transmission and interconnection facilities (the "Energy Facilities").
- Lessor has agreed to grant Lessee an option to lease the Leased Premises for such purposes, subject to the terms and conditions hereinafter set forth.

NOW, THEREFORE, in consideration of the foregoing and the mutual covenants and agreements herein contained, and intending to be legally bound hereby, Lessor and Lessee hereby agree as follows:

Grant of Option. Lessor hereby grants to Lessee the exclusive right and option to lease the Leased Premises, subject to the terms and conditions hereinafter set forth (the "Option to Lease").

EXHIBIT B - LAYOUT

Exhibit B

Depiction of the Land



EXHIBIT A - LEGAL

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EXHIBIT C - LEASE

EXHIBIT C Form of Ground Lease

SOLAR GROUND LEASE AGREEMENT

	- 7	THIS	SOLA	AR GROUND LEASE	AG	REE	MENT	(this	"Lease	") is made	and	enter	ed into as
of	the		day	of		20	(the	"Eff	fective	Date").	bv	and	between
_			,	("Landlord") and			(("Tena	nt").	- 5		

WITNESSETH:

In consideration of Ten and No/100 Dollars (\$10.00)1 to be paid from Tenant to Landlord on or before the date that is thirty (30) business days after the Effective Date and the rent to be paid to Landlord by Tenant, as hereinafter provided, and of the covenants and agreements upon the part of Landlord and Tenant to be kept and performed, Landlord hereby leases to Tenant, and Tenant leases from Landlord, containing approximately acres, located at , and in substantially the location set forth on Exhibit A attached hereto, together with all other appurtenances, tenements, hereditaments, rights and easements pertaining to the property and the improvements to be constructed by Tenant and in the future located thereon (the "Premises"), to be occupied and used upon the terms and conditions set for the herein. The Premises are a portion of that certain property with Tax Parcel Nos. of containing approximately acres, and located in substantially the location shown in Exhibit B attached hereto and by this reference made a part hereof (the "Land").

Term of Lease; Extension Terms; Termination Rights; Contingencies/Due Diligence.

(a) The term of this Lease (including any extensions or renewals, the "Term") shall commence on the Effective Date and shall end at 11:59 P.M. local time on the date that is three hundred sixty (360) months2 after the Rent Commencement Date (as hereinafter defined) (the "Expiration Date"), unless extended or sooner terminated as herein provided; provided, however that if the Rent Commencement Date is other than the first day of a calendar month, the Term shall be extended

LEASE W/ OPTION PERIOD

MENT

WITNESSETH:

- A. Lessor is the owner of that certain property located in County, and located at ______, as more particularly described on Exhibit A (the "Property").
- B. Lessee desires to obtain an option to lease up to a maximum of approximately contiguous acres of the Property as conceptually shown on <u>Exhibit B</u> attached hereto and made a part hereof (the "Leased Premises") for B to construction, installation, operation and maintenance thereon of a solar farm and all related generation, storage, transmission and interconnection facilities (the "Energy Facilities").
- C. Lessor has agreed to grant Lessee an option to lease the Leased Premises for such purposes, subject to the terms and conditions hereinafter set forth.

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Legislation, Developing, and Permitting



Legislation

 A community solar project is an array of solar panels installed off-site. Anyone in the area (electric utility) can access the clean energy produced and receive credits toward their electricity bill.¹⁵



Legislation

- Community solar is not available in Pennsylvania, but several proposed laws are currently being discussed in Harrisburg.¹⁶
- See Pennsylvania Senate Bill 472, House Bill 1161, and House Bill 989.¹⁷



¹⁶ nyserda.ny.gov/All-Programs/Programs/NY-Sun/Solar-for-Your-Home/Community-Solar ¹⁷ legiscan.com/gaits/search?state=PA&keyword=community+solar

- Who is the Authority Having Jurisdiction (AHJ)?¹⁸
 e.g., state, county, township, city
- Are additional federal or state permits required?



- How does the local AHJ define small-scale vs. large-scale?
- Can we develop in the current zoning district?
- What are the setback requirements?
- Is there a lot size restriction?
- Does the local AHJ require tree screening?



- Is a decommissioning plan required?
- Is a form of surety via escrow required? If so, when?
- Does the local AHJ allow for battery storage?



- What can cause a solar project to be tabled at the option stage?
 - Lack of local legislation from the AHJ
 - Lack of interconnection from the utility
 - Unfavorable interconnection results from the utility
 - Changes in the state/local legislation and/or policy
 - Unfavorable project economics



 Local opposition can be (and should be) addressed by the solar developer





Questions?

pguerra@forefrontpower.com linkedin.com/in/phillip-guerra

