

Mid-Hudson Energy Working Group

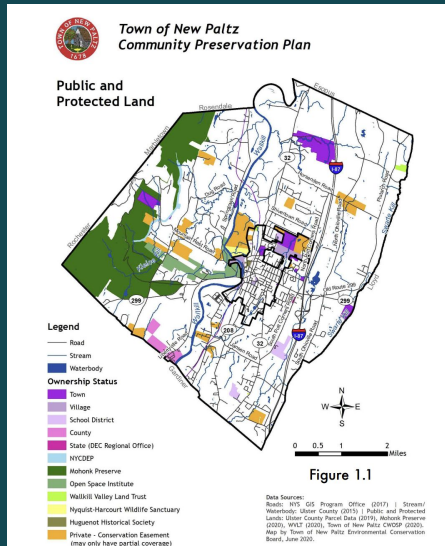
Amanda Gotto,
New Paltz Town Supervisor

Central Hudson Gas & Electric's 15th Annual
Solar+ Summit

March 6, 2025

Objectives

Where to build?



What to build?



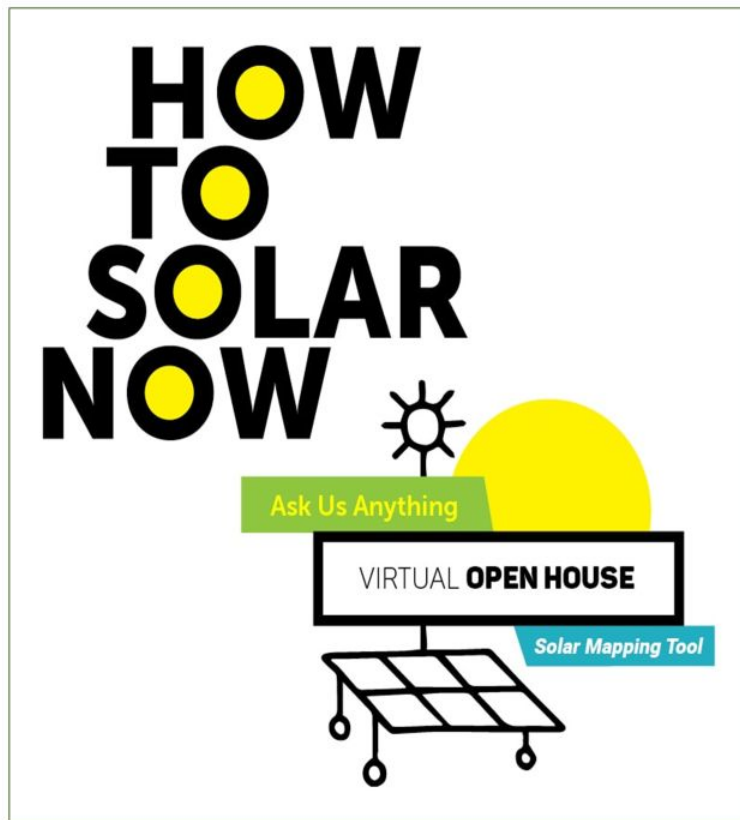
How to go forward?



Scenic Hudson's Solar Mapping Tool

Four Steps for Smart Solar Planning:

1. Assess proposed solar or other renewable energy infrastructure projects.
2. Discover and propose new solar or other renewable energy projects.
3. Assess siting of any project, but is especially useful for solar, battery storage and other related projects.
4. Ensure wise land use planning and zoning and project implementation.



Key to Mapping Tool Layers



Reference Layers

- Counties
- Towns and Cities
- Villages
- Tax Parcels
- Land Cover



Solar Opportunity Layers

- Re-Powering Opportunities
- Mined Lands
- Large Building Footprints



Agricultural Layers

- Agricultural Districts
- Farmland Soils – Prime
- Farmland Soils – Prime if Drained
- Farmland Soils – Soil of Statewide Importance



Wetland and Floodplain Layers

- State Regulated Wetlands
- National Wetland Inventory
- FEMA 100-year Flood Hazard Zones (includes Regulated Floodways)
- FEMA 500-year Flood Hazard Zones



Biodiversity Layers

- Forest Cores and Edges
- Important Areas for Biodiversity



Protected Areas Layers

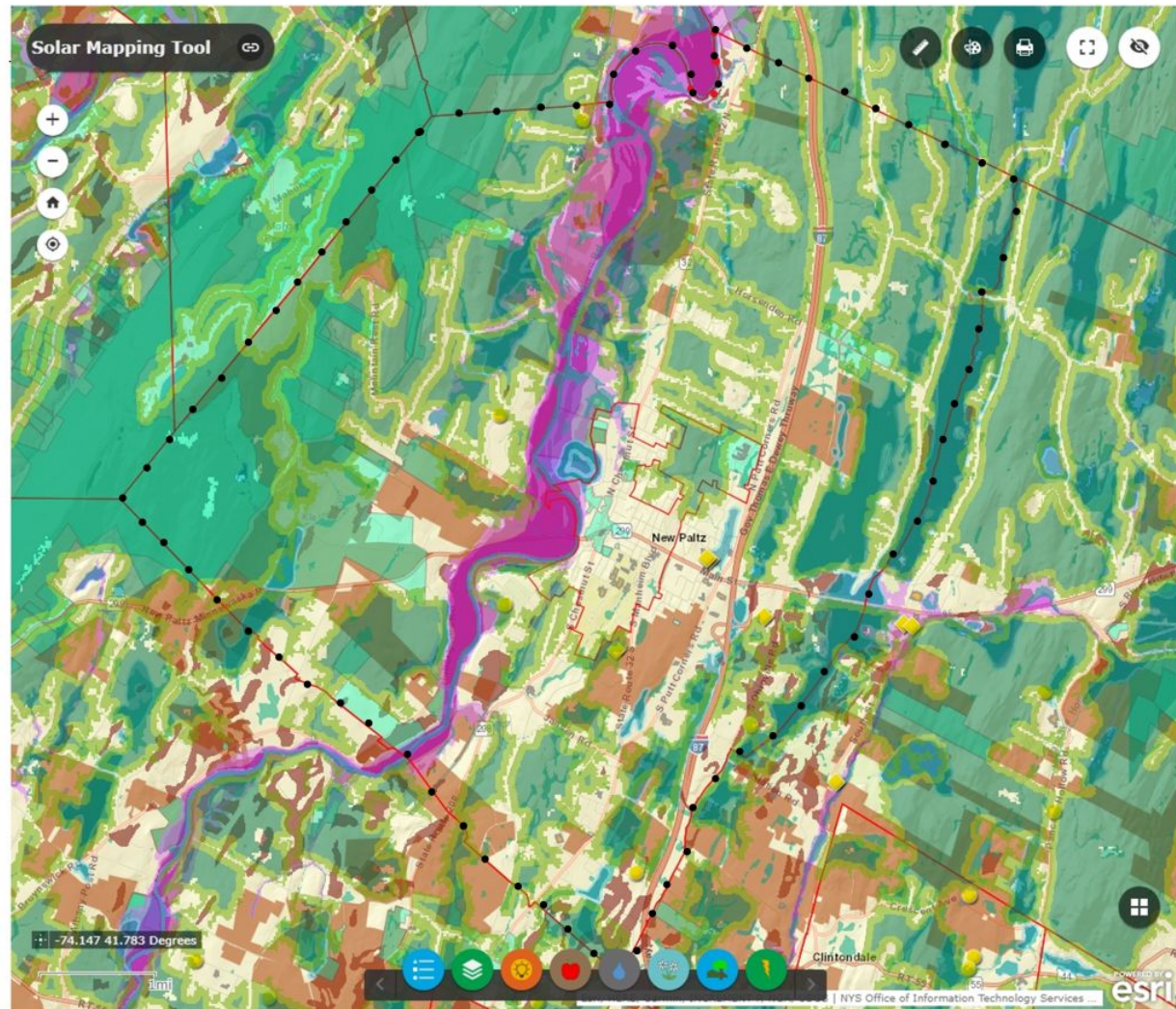
- NYS National Historic Register Listings
- US Protected Areas Database



Solar Feasibility Layers

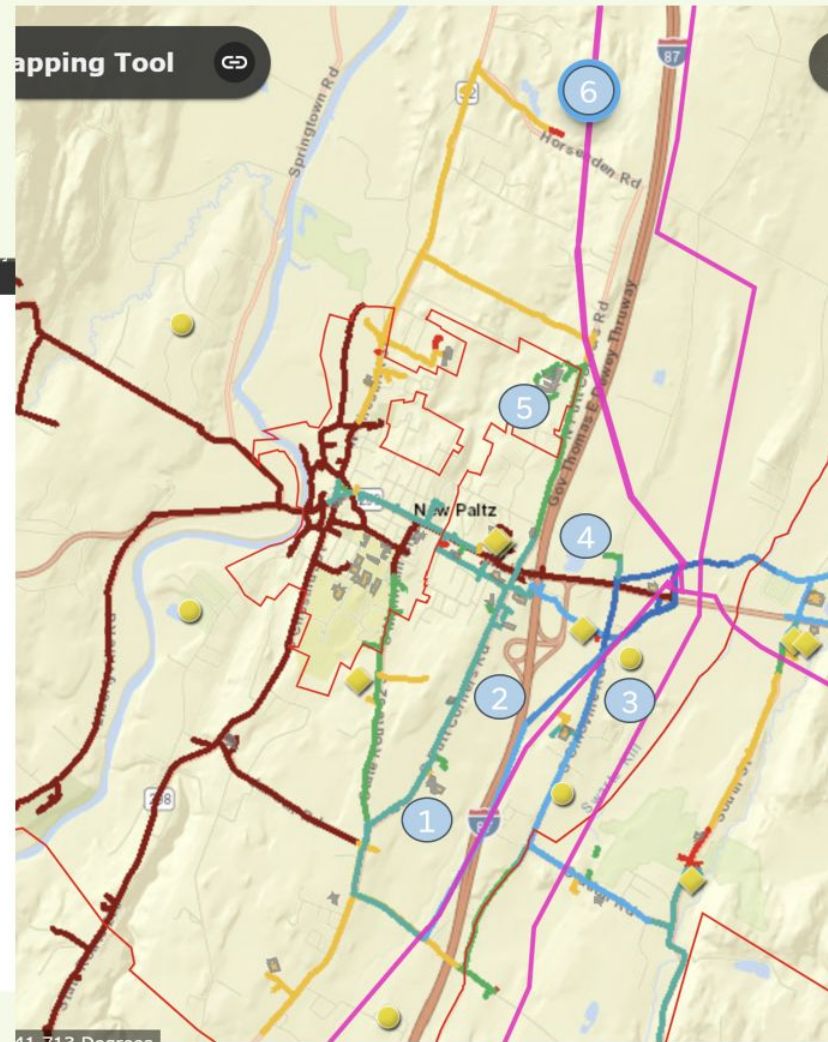
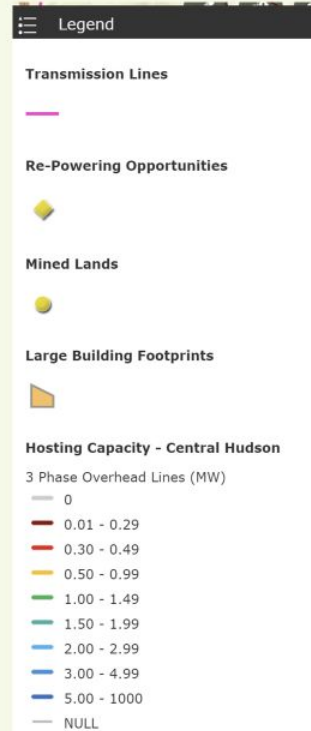
- Transmission Lines
- NYISO Load Zones
- NYS Utility Service Areas
- Solar Feasibility Landforms

New Paltz Overview with All Layers



8 MILE NEW PALTZ SOLAR CORRIDOR

1. **New Paltz High School** – NP School Board (2.1 acres building and parking lot)
2. **Exit 18 Clover Leaf** – NY State DOT (3.1 acres)
3. **Plesser Turks Property, Ulster County Emergency Operations Center** – Ulster County (36 acres)
4. **Former Genesis Diner along Rt 299** – Private Owners (4.2 acres in 2 parcels)
5. **Woodland Pond** – Private Owners
6. **Ulster County Resource capped landfill** – Ulster County (600,000 sq ft)



Mid-Hudson Energy Working Group - Team Members



Working Members - clockwise

- Melissa Everett
- Amanda Gotto
- Manna Jo Greene
- Amanda LaValle
- Tom Polton
- Joe Londa
- Simon Strauss

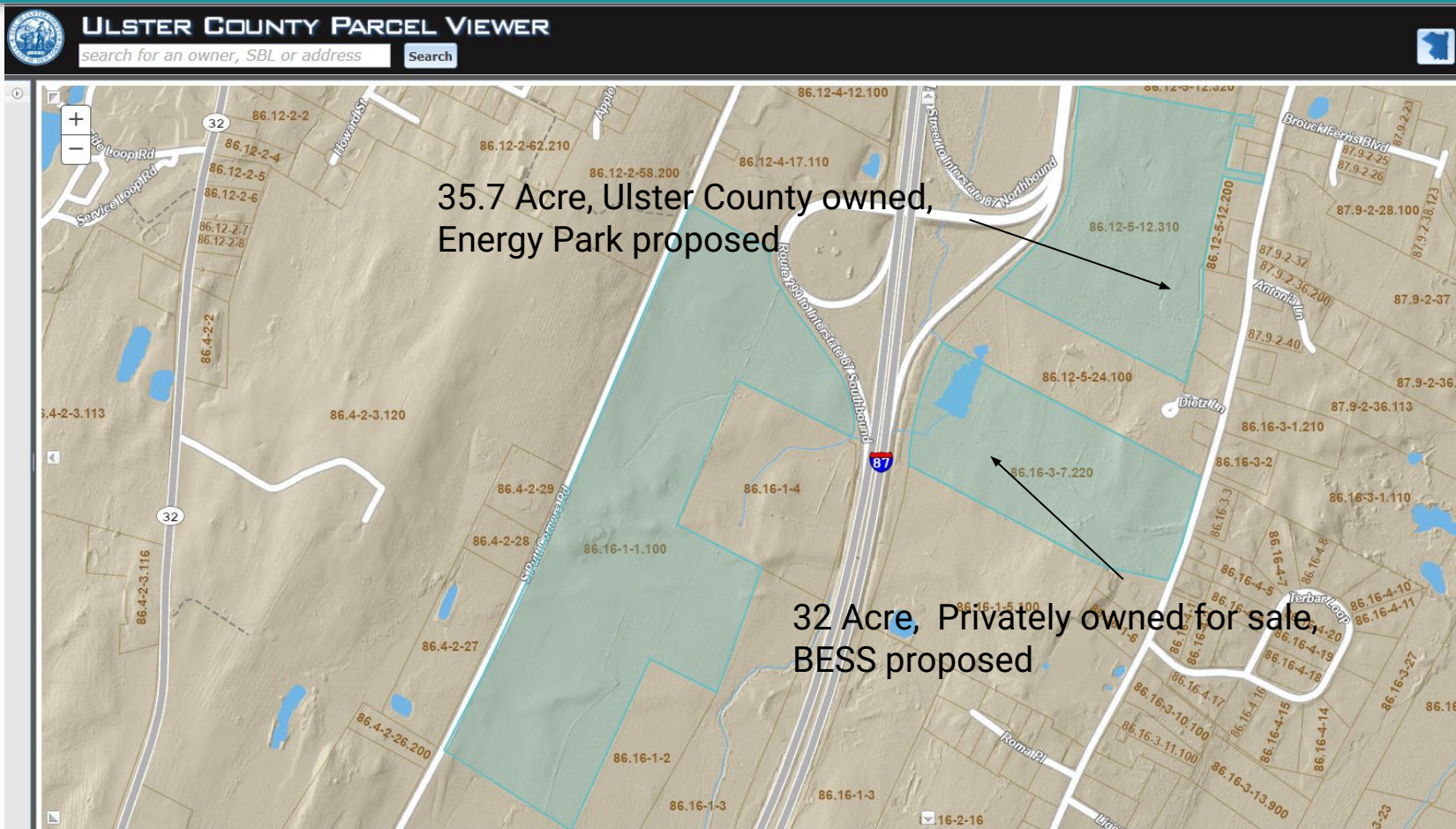
Special Thanks - not pictured

- Yvonne Posey
- Melissa Iachetta

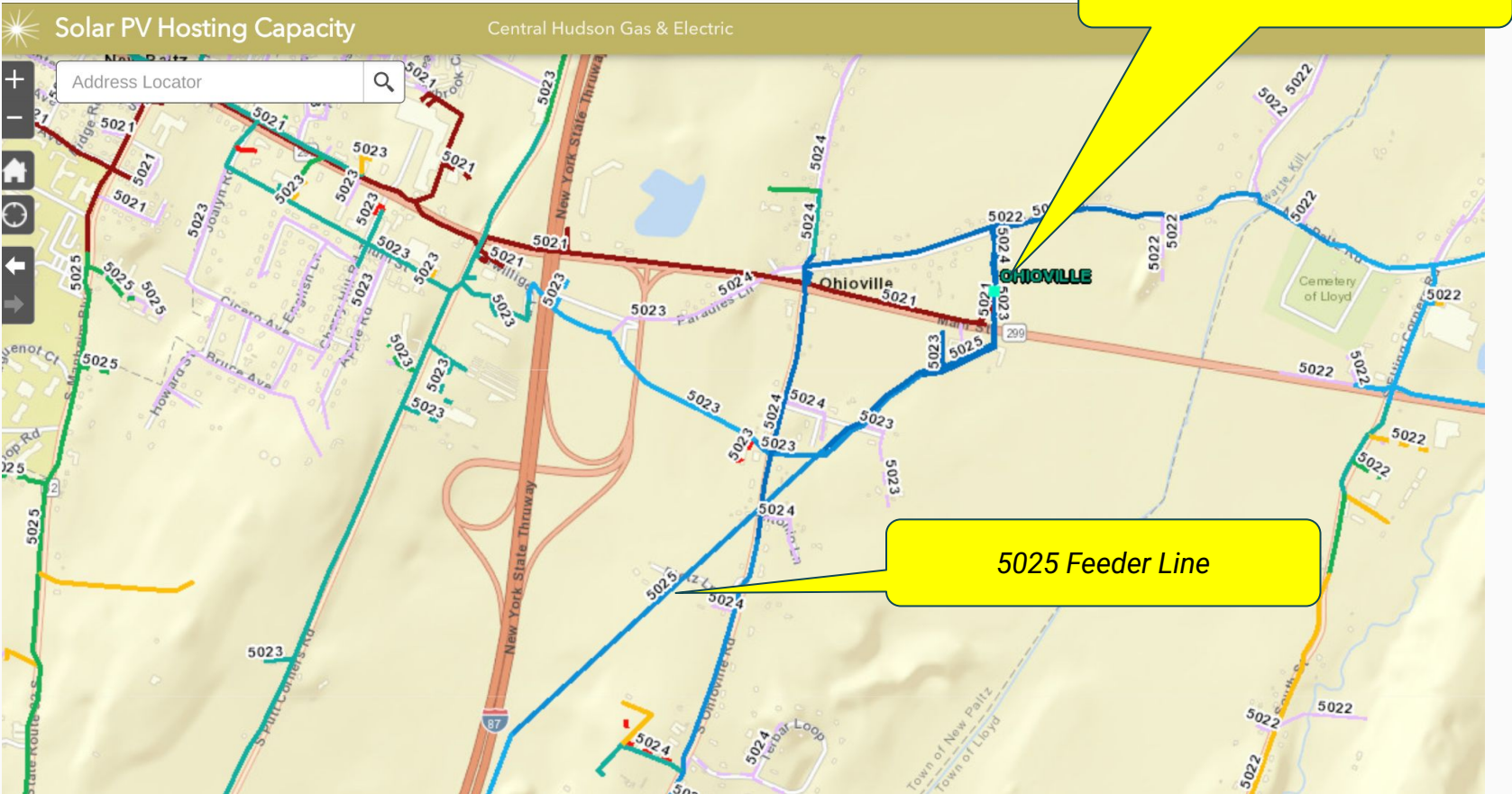
New Paltz DER Candidate Inventory

Site Name	Principal	Probability	Comments	Mount	Acreage	Timing	Est. Cap (KW)
Duzine Elementary School	NPCSD	Low	Sell or Lease proposed	Roof	na	None	400
New Paltz High School	NPCSD	Medium	Consider for Prop 2 Revisited	Roof	na	None	312
New Paltz High School	NPCSD	Low	No capital and not a priority	Portal	0.8	None	160
NPCSD Bus Depot	NPCSD	Medium	Consider for Prop 2 Revisited	Roof	na	None	100
NPCSD Bus Depot	NPCSD	Low	See UC Energy Park Proposal	Portal	2	None	400
NPCSD Bus Depot	NPCSD	Low	See UC Energy Park Proposal	Ground	11.2	None	4,400
New Paltz Fire Department	Village of NP	High	Advancing to install	Roof	na	2H2025	80
New Paltz Police Department	Town of NP	High	Advancing to install	Roof	na	Q1/2025	150
New Paltz Police Department	Town of NP	Low	High cost makes this unlikely	Portal	0.6	None	120
New Paltz Landfill	Town of NP	Low	Interconnection cost high	Ground	0	Withdrawn	0
NYS Thruway Exit 18 cloverleaf	NYS	Low	Acreage is small	Ground	3.1	TBD	1,200
Gov Ops Center / Plessler/ Turks Property	Ulster County	High	Bid Phase	Roof	na	2026+	105
Gov Ops Center / Plessler/ Turks Property	Ulster County	Medium	UC Energy Park Proposed with BESS, Bus Charging and Solar Portals	Ground	35.7	2026+	400
Genesis Diner (former) parcel 86.12-5-27	Private	Low	Small Parcel	Ground	1.8	None	720
87 Motel (former) parcel 86.12-5-3.2.00	Private	Low	Small Parcel and Priced for Commercial Use	Ground	11.9	TBD	4,400
81-83 S Ohioville Rd	Private	Low	Vacant Land withy 5025 Feeder Line, Possible BESS location, Light Industrial Zoning!	Ground	33	TBD	13,200
Woodland Pond	Private	Low	Request info on what is being considered	Ground		TBD	-
Farm on Rt 32 (86.16-1-1.100)	Private	Low	Hay farming, low interest level at this time	Ground	50	TBD	20,000
Totals					100.1		46,147
						Roof	1147
						Portal	680
						Ground	44320

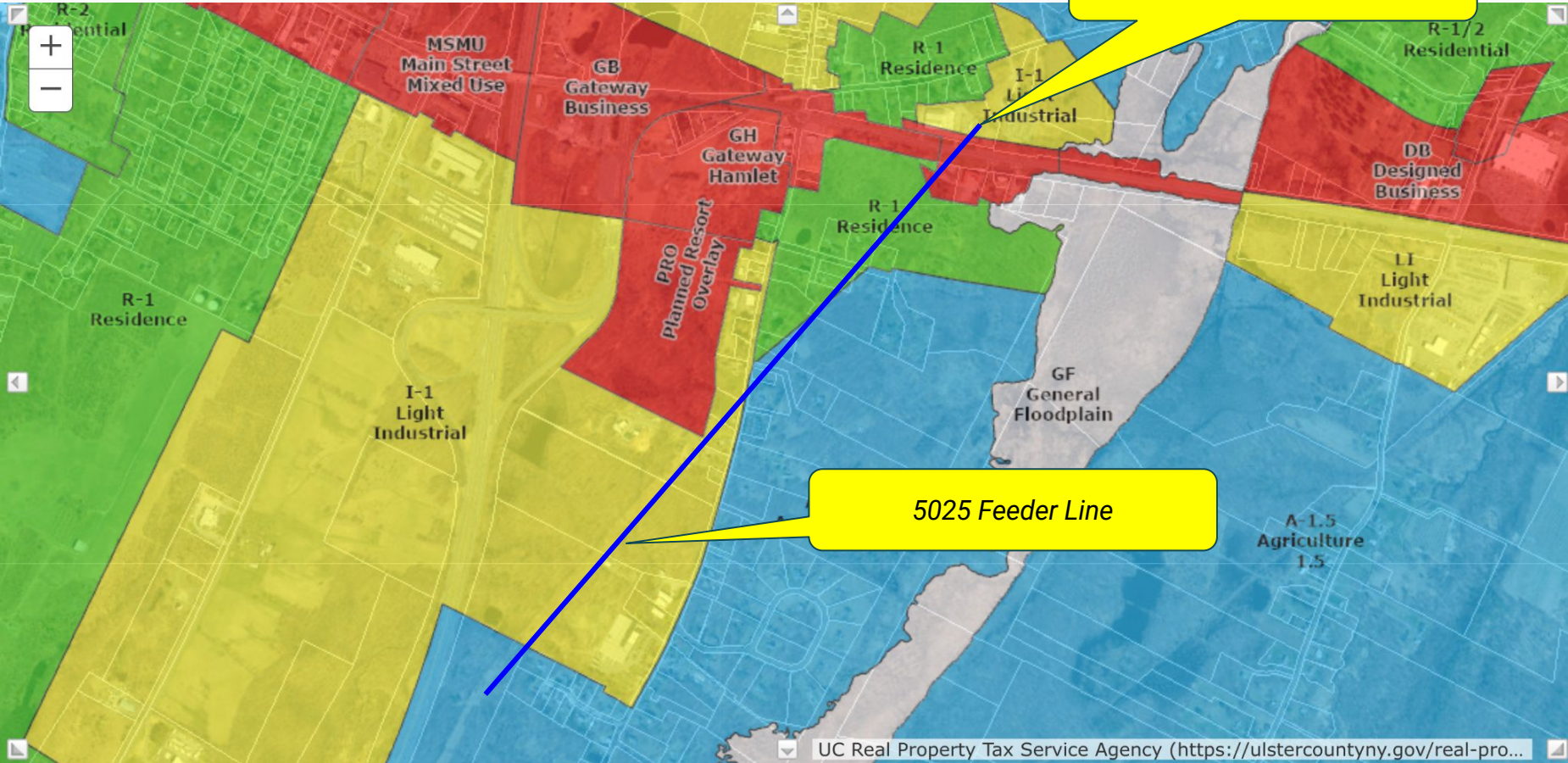
Proposed Parcels for Distributed Energy Resources



Key Electric and Transportation Infrastructure

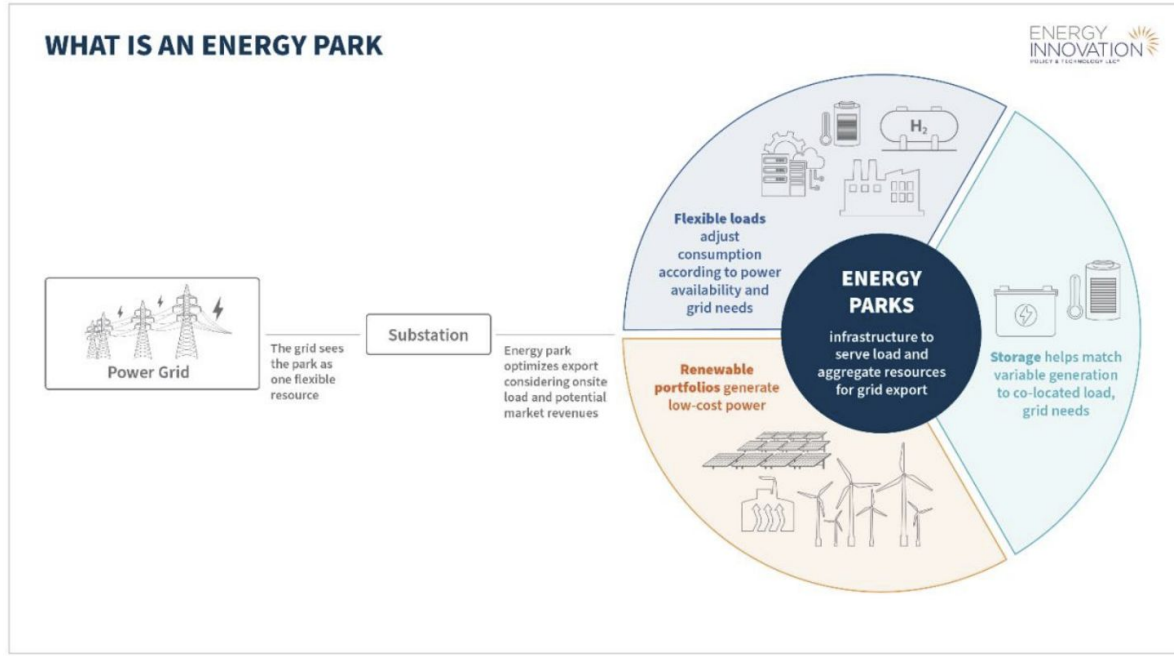


Zoning Overlay (UC Parcel Viewer)

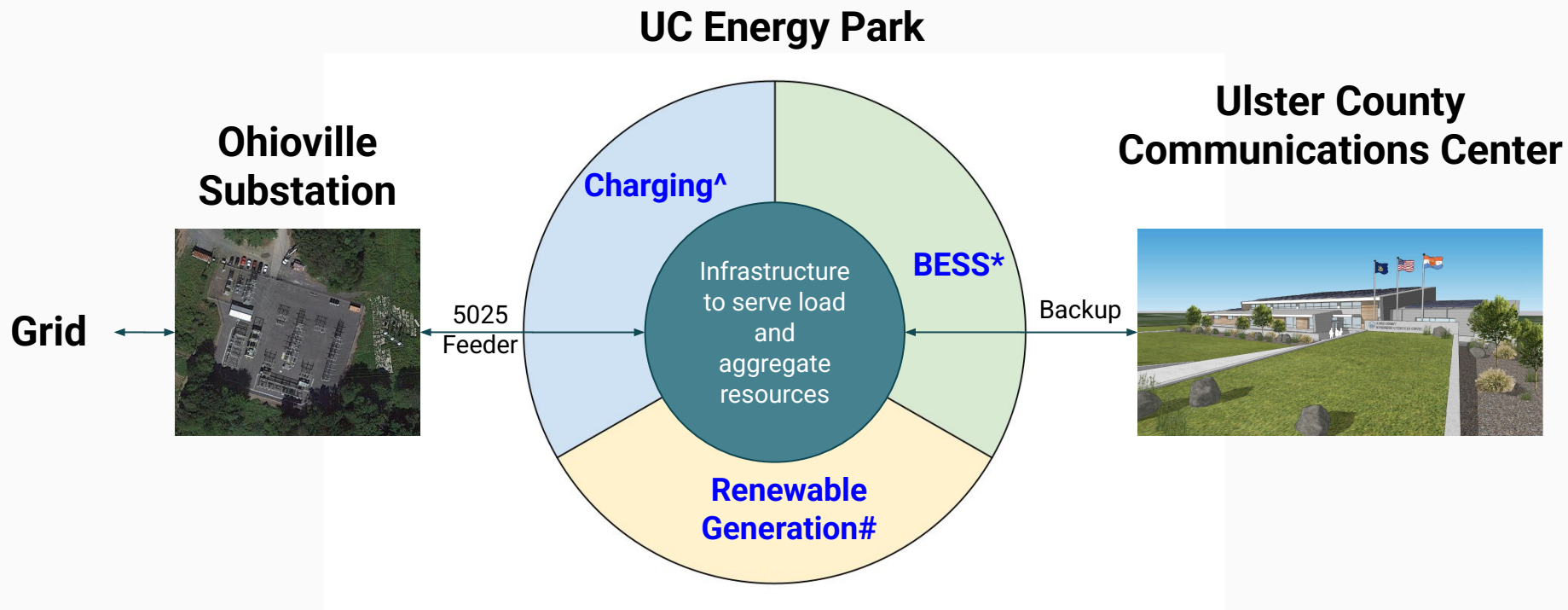


WHAT IS AN ENERGY PARK?

Figure 1. Energy Park



Ulster County Energy Park and Communications Center Proposal



^ Charging = Private & Public EV Charging

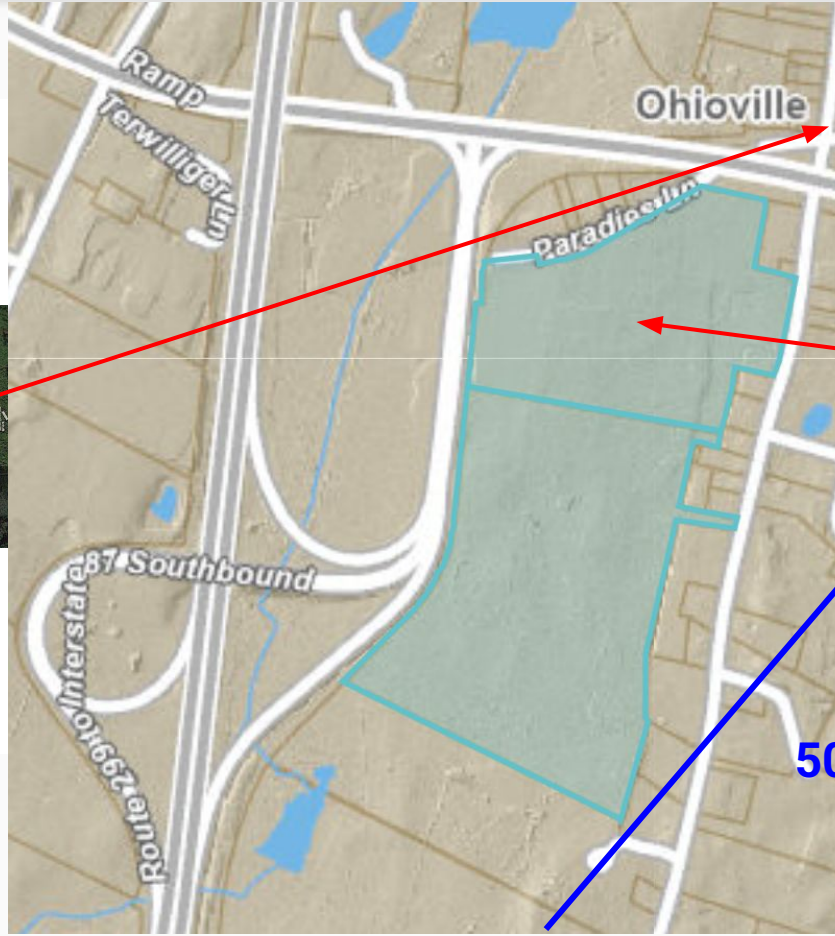
***BESS = Battery Energy Storage System**

#Renewable Generation = Solar Parking Portal & Ground Mount

Ulster County Energy Park and Communications Center Proposal

Grid

Ohioville
Substation



Ulster County
Communications Center



5025 Feeder Line

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How to go forward?

Looking for advisors to help determine the technical, economic, and political feasibility of our recommended approach.

Suggestions and feedback to improve the proposal.

Additional renewable energy projects could be pursued along the corridor identified in our studies involving additional property owners in the area.