



Tracy Solar Project

Community Meeting

April 2021

TRACY 
solar & storage project

The logo icon for the Tracy Solar & Storage Project, featuring a stylized orange sun with rays and a battery symbol.

Virtual Open House Agenda



Jack Honor
Senior Development Manager
Grid Scale Power – New York
Jack.honor@edf-re.com
518-888-2589



Haylee Ferington
Community Relations
Grid Scale Power – New York
Haylee.ferington@edf-re.com
716-417-7470

About EDF Renewables

Project Overview & Update

Permitting Process

Frequently Asked Questions/Topics

Community Benefits

Question & Answer Session

Type your questions in the chat!



About EDF Renewables

35+ years

We were on the forefront of the burgeoning wind industry in California as a service provider beginning in 1985.

\$18+ billion

Since 2010, we have paid over \$18 billion to vendors, including lease payments made to landowners.

8,000

Our 20 GW project development has created 8,000 on-site jobs.

Based on an employment factor of 4 jobs per MW IRENA Annual Review

20 GW

We expanded into project development in 2000 and have developed 20 GW of grid-scale solar and wind projects across North America.

as of 12/31/20

EDF Renewables

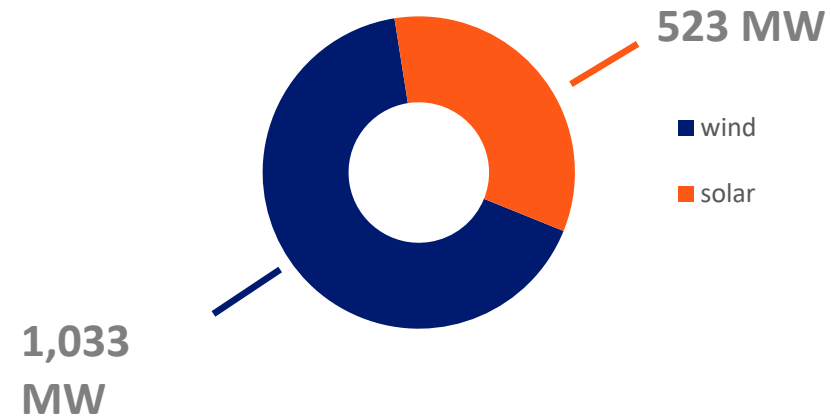
GRID-SCALE POWER

Delivering Significant Benefits

EDF Renewables' Grid-Scale Power team ; provides **origination, development, transaction and construction** services for large-scale wind (offshore and onshore), solar power generation and storage projects across North America.

Our team of leaders can solve energy challenges facing businesses and communities no matter the size or complexity.

1.6GW (1,600MW put in service in 2020)



These principles reflect our promise to our host communities, landowners, and other stakeholders.

EDF Renewables is committed to:

- Honesty and transparency in all our development activities
- Engaging with all stakeholders and remaining open to taking input that will improve projects and mitigate impacts
- Being present and available in the community to ensure all voices are heard
- Treating landowners, host communities, and stakeholders fairly and equitably

Our Commitment to **Ethical Development**

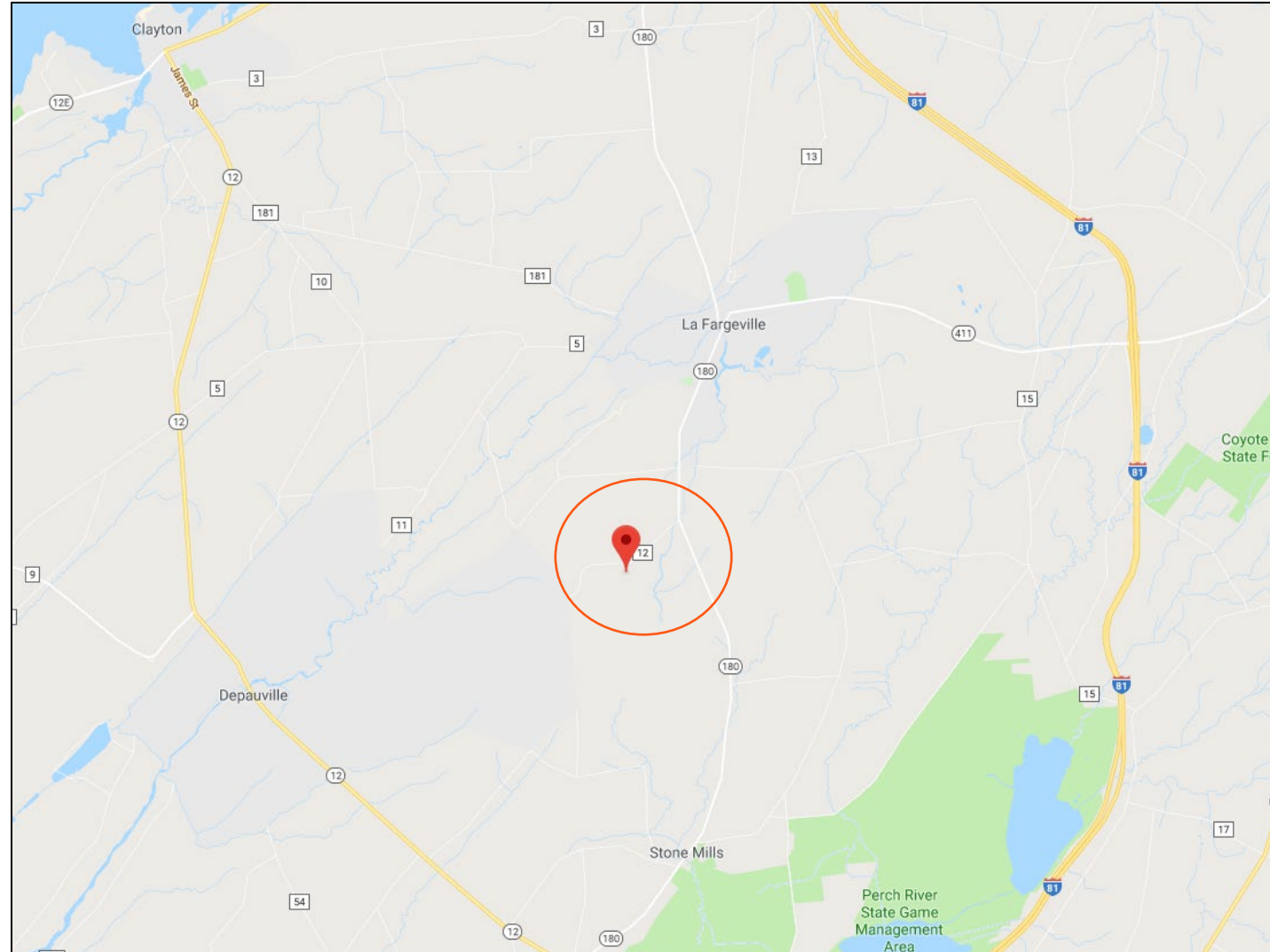




Project Overview & Update

Tracy Solar Energy Center

- 119MW project in development in the Towns of Orleans & Clayton
- 5MW/4-hour duration energy storage system
- Awarded contract with NYSERDA in late 2020, part of their "Large Scale Renewables" Program
- Land agreements 100% complete for siting project components
- Environmental studies & design in progress
- Connection to National Grid transmission line on site
- Contribute to New York's goal of 70% renewable energy by 2030
- Local job creation and tax revenues



Substation & Energy Storage

Existing Transmission Line





Environmental & Design Overview

- Suite of environmental studies completed
 - Wetlands
 - Wildlife
 - Breeding birds
 - Winter raptors
 - Sound
 - Visual
- Net improvement in stormwater flow versus pre-construction
- Less than 5% prime farmland per NYS Department of Ag & Markets
- Design for minimal impact to NYS jurisdictional wetlands
 - At most, a few acres of mitigation to class 3-4
- Mitigation required for habitat impact for bird species
 - Mitigation project in planning stage with local land trust TILT
- Seasonal tree clearing restrictions for bat habitat
- Follow NYS DAM guidelines for construction on agricultural lands

Recent Updates

Work either recently completed or underway

- Awarded and signed agreement with NYSERDA for sale of renewable energy credits
- Began final study for interconnection with the NYISO and National Grid
- Geotechnical testing (pullout testing and soil borings)
- Archaeology and cultural resources study
- Visual impact analysis and visualizations
- Jurisdictional Determination from ORES on NYS Wetlands (project proposing minimal impact)
- Civil & electrical engineering & design approximately 60% complete for permitting
- Community outreach to local groups – TILT, Save the River, Rotary Club, Chamber of Commerce
- Discussions with TILT about land preservation mitigation project



NYSERDA Program Overview

- NYS Holds annual procurements for renewable energy through NYSERDA
- EDFR has won four (4) awards under the procurement since 2018 including Tracy Solar Energy Center
- Contract structure is the sale of renewable energy credits to NYSERDA who in turn sells them to the State's utilities to comply with Renewable Portfolio Standard
- Projects won in 2020 and the future include a \$500/MW Host Community Electricity benefit on top of any PILOT or taxes to communities
 - This payment is split among all residential electricity customers in our host towns for 10 yrs
- Projects have minimum in-state spending requirements.
 - Tracy Solar Energy Center's has a minimum NY-spend of **\$20.5M** with estimated spending much higher



Permitting Process

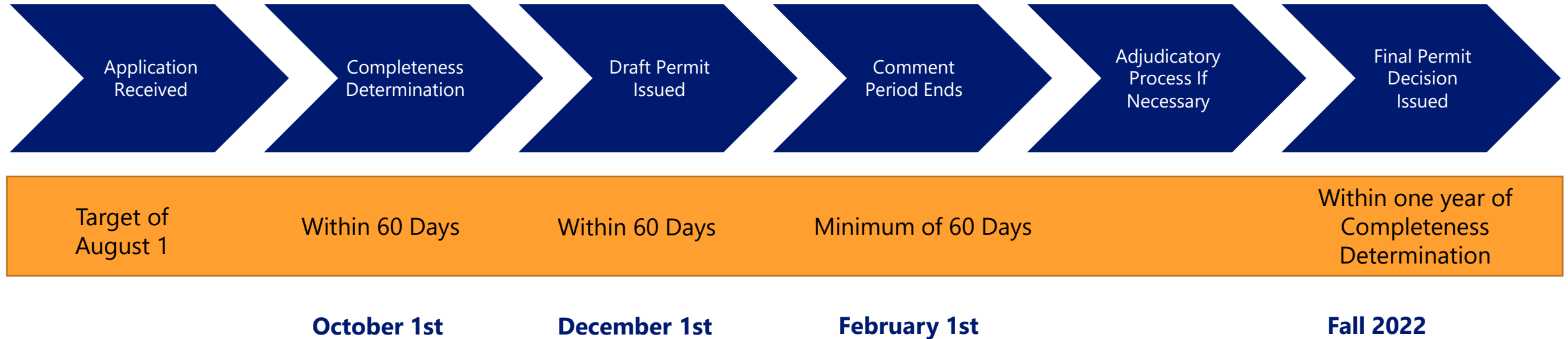
94C Permitting Process

NY Office of Renewable Energy Siting

ores.ny.gov

- A new permitting process for renewable energy projects greater than 25MW in NYS has been established by the Accelerated Renewable Energy Growth & Community Benefit Act Legislation from 2020
- Final regulations published in March 2021
- Sets uniform standards & conditions for projects to meet
- Tracy Solar Energy Center has officially elected to transition from Article 10
- Application target date August 1, 2021
- One-year timeline for approval following a completeness determination (roughly 60 days following an application)
- Intervenor funding available
- Public hearings to adjudicate significant issues if needed

ORES – 94C Permit Process





94-C Local Agency Account

- Permitting includes \$1,000/MW (\$119,000) in a “local agency account” to defray costs in participating in the permitting process, for review & comment and hiring of experts
- Intervenor funding will be made available to a host municipality, political subdivision, or local community members per regulations
- 75% of the funds are reserved for municipal entities
- Those seeking funds from the local agency account shall submit a request to ORES within thirty (30) days after the date on which a siting permit application has been filed
- Funding awards made within 30 days of the deadline to submit
- Instructions on how to submit can be found on ORES website ores.ny.gov and our project website tracysolarproject.com



Frequently Asked Questions/Topics


Solar Facility Operations – 24/7/365



- EDF Renewables will have a local team of operations personnel to monitor and maintain the system to the highest of standards.
- Emergency Preparedness and Response Plan will be written with feedback from the first responder community.
- Training of Local First Responders prior to installation and annually thereafter.
- The facility **will be monitored** 24/7 365 days per year from operations control center in San Diego California.
- Maintain electronic cyber and physical security perimeter requirements.
- Disaster Recovery plan in place to mitigate remote monitoring impacts, including second redundant facility in Arizona with co-location servers, backup power to support 48-72 hours of power should there be a local utility outage and network connectivity redundancy.



EDF Renewables' 24/7 NERC-compliant operations control center located in San Diego, CA, where remote monitoring, diagnostics, troubleshooting, and cybersecurity measures are implemented for all wind and solar power farms under operation



Solar Energy and Agriculture

Agriculture and electricity production can result in two revenue streams while sharing the same piece of land.

- Adding agriculture is efficient and economically advantageous to the local community
- Sheep & vegetative management
- Flowering vegetation = food for bees and butterflies, birds
- EDF Renewables has successfully partnered with local farmers & apiarists.
- Use pre-existing agricultural and cleared lands and design to reduce tree clearing
- Opportunity for land to “rest” without agricultural activity. Very limited use of pesticides & herbicides (only in substation and near sensitive electrical equipment) or if mandated by DEC or other authority.



ENERGY STORAGE

- Storage facility designed to store electricity until more suitable, or higher need, to inject onto power grid
- In 2019, an Energy Storage System Supplement was added to the New York State Uniform Fire Prevention and Building code
- New York now has some of the strictest design & safety standards for energy storage in the nation
- Located adjacent to project's substation
- Tracy Design includes eight (8) containers totaling 5MW/4hr



Tracy Solar Energy Center



EDFR's McHenry Storage Project outside of Chicago, online since 2015

ENERGY STORAGE

New York State leads the nation, in energy storage system safety, including new code requiring extra protective measures to enhance the level of protection.

- EDF Renewables has implemented 350MW of storage globally for our projects and customers
- Technology has been in place for years
- New York leads the nation in safety
- Becoming common for integration in renewable energy projects across the U.S.
- Li-ion batteries similar to those found in everyday electronics
- Often co-located in cities and residential neighborhoods (e.g. NYC)
- Local team of operations personnel to monitor and maintain the system to the highest of standards
- An Emergency Preparedness and Response Plan will be prepared with feedback from the first responder community
- Training of Local First Responders prior to installation and annually thereafter



Decommissioning & Restoration

Decommissioning is the process of removing equipment (solar panels, inverters, transformers) and improvements (roads and fences) and returning the land to original condition.

- Decommissioning of the project is planned from the start, expected in year ~35-40 of the project's life
- Section 94-C and local laws require a security, typically in the form of a letter of credit, to be posted to cover the cost to decommission the facility, prior to the start of operation
 - The Host Communities and the State will have access to this letter of credit
 - The amount will be adjusted based on inflation over time
- Where the land was previously used for agriculture, any topsoil that was removed or disturbed during the construction, operation or decommissioning of the solar facility is replaced, aerated, and the land can be returned to farming



Local Benefits



Job Creation & Education

- 200 prevailing wage construction jobs estimated at peak
 - Electricians
 - Laborers
 - Equipment operators
- 3+ full time equivalent high paying operations and maintenance jobs (local preference)
 - Site manager
 - Solar technicians
 - Landscaping, mowing, agriculture
- Local vendors, suppliers, hospitality sector, etc.
- Educational opportunities for local schools and community colleges

Community Financial Contributions

- PILOT & Property Tax payments estimated \$13M over 35 years
 - more than 10x more than the current tax paid from land hosting project
- Lease payments to local residents totaling over \$24M over 35 years
 - creating a much needed stable revenue source for farmers and landowners
- \$20,000/year for 10 years to local community groups and projects, with selections made by residents
- Annual \$2,000 scholarship to a student in LaFargeville School District, for a student interested in renewable energy and/or the trades
- \$500/MW Host Community Electricity benefit on top of any PILOT or taxes to communities (119MW = \$59,500)
 - This payment is split among all residential electricity customers in our host towns for 10 yrs



Question & Answer



Thank You. Question?

Visit us at www.edf-re.com

Jack Honor

Senior Manager – Development

Grid Scale Power- New York

Jack.honor@edf-re.com

518-888-2589

Haylee Ferington

Community Relations Consultant

New York

Haylee.ferington@edf-re.com

716-417-7470