

Solar Renewable Energy Program

Summary of Project Development



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DeCotiis Solar Procurement Experience

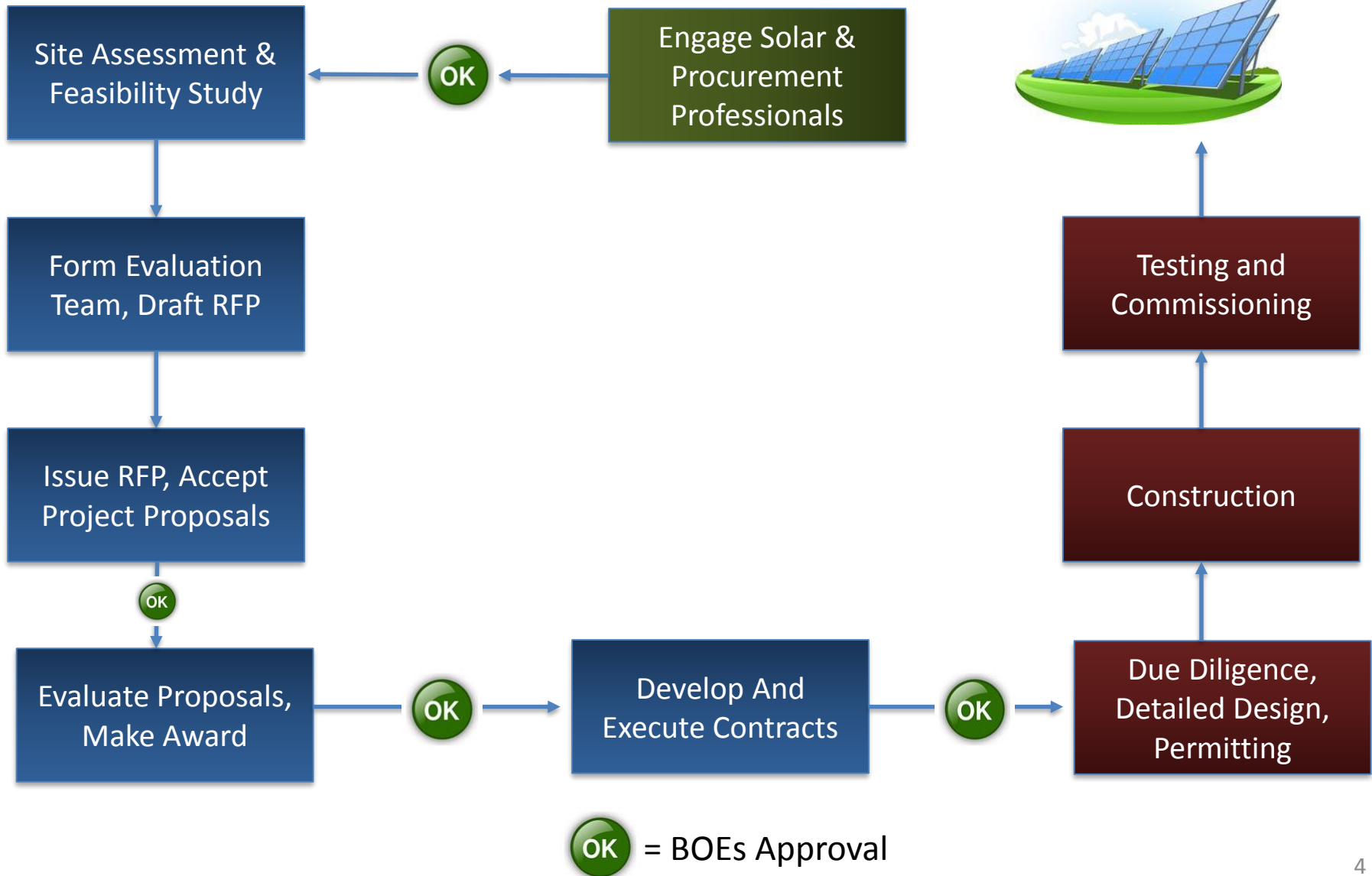
Solar Renewable Energy Experience

- Morris County Improvement Authority (2009) – 3.2 MW, \$21 Million, *constructed*
- Somerset County Improvement Authority (2010) – 8.0 MW, \$48 Million, *constructed*
- Union County Improvement Authority (2011) – 3.4 MW, \$15 Million, *constructed*
- Somerset County Improvement Authority – (2011) – 7.6 MW, \$36 Million, *under construction*
- Mercer County Improvement Authority – (2011/12) 8.3 MW, \$38 Million, *constructed*
- Hudson County Improvement Authority – (2011) 3 MW, \$6 Million, *constructed*
- **Hopatcong School District (2010) – 1.5 MW, \$3 Million in total savings over 15 years, *constructed***
- Atlantic City (2011) – 597.5 kW, \$455,000.00 in total savings over 15 years, *constructed*
- Aberdeen Township (2011)– 750 kW, *constructed*
- **North Warren Regional Board of Education (2012/13) – 924 kW, \$380,217 in total nominal savings over 15 years, *constructed***
- **Franklin Township School District (2013) – 389 kW, \$397,219* in total nominal savings over 15 years, *constructed***
- **Warren County Technical School (2014) – 844 kW, *under construction***
- **Vernon Township Board of Education (2014) – 900 kW, *under Construction***
- **Princeton /Stony Brook Sewerage Authority (2015) – 2.2 MWs, \$1.2 million in total nominal savings over 15 years, *in permitting***
- **Readington Township Board of Education – (2016) – 1.2 MWs, \$830,000 in total nominal savings over 15 years, *in contracting***
- **Delaware Valley Regional Board of Education – (2016) – 1.033MWs, \$1.12 million in total nominal savings over 15 years, *in contracting***
- **Elizabeth Board of Education – (2017) - *Currently in procurement phase***
- **Franklin Township Board of Education, Gloucester County – *Currently in procurement phase***

Gabel Associates: Solar Project Experience

- Atlantic City Convention Center
- Warren County Technical School
- Camden County
- Cresskill BOE
- Rutgers University
- State of New Jersey
- Evesham BOE
- Morris County Improvement Authority
- Wildwood Convention Center
- Mercer County Improvement Authority
- Somerset County Improvement Authority
- Hudson County Improvement Authority
- Franklin (Hunterdon) BOE
- Princeton Landfill/Stoney Brook Regional Sewerage Authority
- Tinton Falls BOE
- Monmouth County
- Pocono Raceway
- Atlantic County Community College
- Readington BOE
- Delaware Valley Regional BOE
- Manchester Regional and Haledon BOE
- NJ Meadowlands Commission
- Plainfield Public Schools
- Wayne Township BOE
- Department of Defense
- Department of Veterans Affairs
- Elizabeth Public Schools
- Hopatcong BOE
- Delsea Regional High School
- North Warren BOE
- Franklin (Gloucester) BOE
- Atlantic County Utility Authority
- Ocean County Utility Authority
- Clayton Companies
- Pittsgrove Township
- Others

Solar PPA Procurement Process



Overview of Procurement, Contracting and Permitting Processes

Event	Date
Preliminary Meetings / Presentations to Board (in public session)	July 2017 – May 2018
Award of Contracts to Professionals for development of Solar RFP (in public session)	Nov. 20, 2017
Issuance of Solar RFP (publicly advertised)	May 22, 2018
Proposals received in response to RFP	June 29, 2018
Evaluation Report Completed and Posted for Public Review on the BOE's website https://www.tfschools.org/site/handlers/filedownload.ashx?moduleinstanceid=7403&dataid=12232&FileName=Evaluation%20Report%20-%20Tinton%20Falls%20BOE%20Solar%20PPA%20RFP.pdf	August 24, 2018
Board Presentation concerning Evaluation Report and Board Award of Contract to Solar Developer Fellowship Energy and Ferreira Construction (in public session)	August 27, 2018
Planning Board Meeting to review Solar Projects	May 22, 2019

Power Purchase Agreement Structure

- Designed to insulate the District from the risks associated with the ownership and operation of a solar project
- Fifteen-year Term
- No out of pocket costs for the District
- Solar Developer is responsible for all design, financing, permitting, and construction
- Solar Developer is responsible for all Operations and Maintenance
- Solar Developer must guaranty the energy production
- Provides the District with a Stable Cost of Power for a portion of the District's needs for 15 years
- Solar Developer must provide a full complement of insurance
- End of Term Options

Expected Economic Benefit

- Power Purchase Rate of \$0.526 / kWh;
- Expected first year savings of \$70,744;
- Expected 15 year savings of \$934,941

Please see Evaluation Report for additional details.

Current Status of Projects

- DoE applications – Approved
- Local Planning Board – Approved
- Utility interconnection – Approved
- Attending construction meetings
- Permit designs – Complete
- Local Construction Permits – Applied for on 7/16
- Need to schedule a solar preconstruction meeting
- Construction expected to begin prior to the school year

Responses to Questions Received

- What process was utilized to provide notice of the solar program to the Tinton Falls community?
 - As noted above the Board of Education developed the concept of the solar program for District facilities over the course of 2 years. During that time, the Board held multiple meetings at which the solar program was discussed in open session. In addition, the Solar RFP, Evaluation Report and contract award were each published for public consumption via the District's website and local newspapers.

Responses to Questions Received

- How common are ground-mounted solar projects at public school facilities?
 - Ground-mounted solar projects are extremely common in New Jersey and many have been located on public school properties. By way of example, Gabel and DeCotiis have assisted the following public school clients with the procurement and contracting of ground-mounted systems:
 - Hazlet Board of Education
 - Reddington Board of Education
 - Delaware Valley Regional Board of Education
 - Franklin Township (Hunterdon County)
 - Montgomery H.S.
 - North Warren Regional Board of Education
 - Vernon Board of Education
 - Warren County Technical School
 - Hopatcong Board of Education

Responses to Questions Received

- What measures are built into the solar projects to ensure that the projects do not pose a safety concern to student, faculty and staff?
 - 6 foot fencing;
 - Set back from fencing;
 - Monitored 24/7 by solar developer;
 - Compliant with construction and electrical codes;
 - Subject to DOE Review;
 - Full compliment of insurance.

Responses to Questions Received

- What entities aside from the Board of Education have approval or permitting authority over the solar projects?
 - Department of Education;
 - Tinton Falls Land Use Board; and
 - Construction/Electrical Permitting and Inspection.

Responses to Questions Received

- Why was I not provided with direct mailed notice of the Land Use Board meeting held on May 22, 2019?
 - Pursuant to Municipal Land Use Law, the Board of Education is only required to provide a courtesy presentation to the local Land Use Board. This process does not require the mailing of notification to adjoining property owners. The courtesy review was listed on the Land Use Board agenda for the meeting that was held on May 22, 2019.

Responses to Questions Received

- What measures have been added to the ground-mounted solar project at Swimming River School to screen it from the adjoining neighborhood?
 - The Project is already screened by an existing metal fence. In addition to that, and after meeting with the Land Use Board, the solar developer agreed to install landscaping along the side of the project facing the parking lot and access road which has been designed to further screen the project.