

### WOODBRIDGE SCHOOL DISTRICT

40 Beecher Road – South Woodbridge, Connecticut 06525

Jonathan S. Budd, Ph.D. – Superintendent jbudd@woodbridgeps.org

MEMORANDUM

- TO: Woodbridge Board of Education Finance CommitteeFROM: Jonathan S. Budd, Ph.D., SuperintendentDATE: June 10, 2022
- RE: June 14 Special Meeting: Update on BRS Capital Needs: Solar Initiative

Please find attached information from Richard Huot, Interim Director of Business Services & Operations, in relation to a proposed solar initiative to reduce energy consumption at Beecher Road School. Discussion and affirmation of the project occurred at the June 7 Facilities Committee meeting; the initiative is now being discussed by the Board's Finance Committee for ultimate proposed approval by the Board of Education at its June Regular Meeting.

- To: Jonathan Budd, PhD, Superintendent
- From: Richard Huot, Interim Director of Finance and Operations
- Re: Solar Initiative
- Date: May 8, 2022
- CC: Facilities and Finance Committees

Titan Energy, a firm the Town and Board of Education has used for several years to reduce energy consumption, has proposed Woodbridge apply for a solar installation to augment that which has already been installed. Their proposal and energy savings calculation is attached. And am recommending the application be brought forward to the Facilities and Finance Committees for their review and the Board of Education's ultimate approval.

Per Stage 3 of the suggested project timeline (copy attached), I have submitted an initial application through Titan to Greenskies Clean Energy. The proposal has significant advantages:

- 1. It is a power purchase agreement which means there is no investment, but provides for the purchase per kWh at \$0.0403 cents. We are currently paying through UI for delivery and generation \$0.2263/kWh.
- Given the output of the proposed new solar array, that is a total savings of \$71,488 annually. This is a different amount than shown in the proposal because the proposal does not take into account the savings in the cost of generation.
- 3. With the completion of this project, nearly all of the electric usage at Beecher Road School will be provided by renewal energy.
- 4. The new solar panels would not be installed until the roof replacement project is completed, which will likely be the summer of 2023.

In my experience, this proposal is very exciting as the lowest cost per kWh experienced was \$0.08, and the savings can be accrued without negatively impacting instruction.

Let me know if there is any other information you would like provided on this topic.

# **TITAN** en

# **Solar Development Proposal**

Woodbridge School District

March 7th 2022



### Onsite Generation Consulting



#### **Customized Procurement Solutions**

and savings

## **Project Overview**

- The Town of Woodbridge and Titan Energy have worked together since 2009 on issues related to energy management and procurement.
- Titan has identified a very attractive solar project for the Beecher Road School and contacted Greenskies to obtain pricing for this project opportunity.
- Greenskies has put together the attached design and pricing for the Town and Board of Education's consideration.
- Greenskies and Titan have co-developed a number of municipal solar projects, including Region 15.
- The current incentive mechanism for this project, called the Non-Residential Energy Solutions (NRES) program, is currently accepting applications until March 14<sup>th</sup>.





### **Beecher Road School Design**

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# SOLAR SAVINGS DASHBOARD

Year	Solar production	Eversource \$/kWh	Solar \$/kWh	Annual Savings	Total Savings
1	315,898	\$.1450	\$.0403	\$33,074.52	\$33,075
2	314,319	\$.1479	\$.0403	\$33,820.67	\$66,895
3	312,747	\$.1 <b>509</b>	\$.0403	\$34,576.67	\$101,472
4	311,183	\$.1539	\$.0403	\$35,342.68	\$136,815
5	309,627	\$.1570	\$.0403	\$36,118.85	\$172,933
6	308,079	\$.1601	\$.0403	\$36,905.33	\$209,839
7	306,539	\$.1633	\$.0403	\$37,702.29	\$247,541
8	305,006	\$.1666	\$.0403	\$38,509.89	\$286,051
9	303,481	\$.1699	\$.0403	\$39,328.29	\$325,379
10	301,964	\$.1733	\$.0403	\$40,157.66	\$365,537
11	300,454	\$.1768	\$.0403	\$40,998.18	\$406,535
12	298,952	\$.1803	\$.0403	\$41,850.01	\$448,385
13	297,457	<b>\$.1839</b>	\$.0403	\$42,713.32	\$491,098
14	295,969	<b>\$.1876</b>	\$.0403	\$43,588.30	\$534,687
15	294,490	\$.1913	\$.0403	\$44,475.13	\$579,162
16	293,017	<b>\$.1952</b>	\$.0403	\$45,373.98	\$624,536
17	291,552	<b>\$.1991</b>	\$.0403	\$46,285.04	\$670,821
18	290,094	\$.2030	\$.0403	\$47,208.50	\$718,029
19	288,644	\$.2071	\$.0403	\$48,144.56	<b>\$766</b> ,1 <b>7</b> 4
20	287,201	\$.2112	\$.0403	\$49,093.39	\$815,267
Total	6,026,672				\$815,267

270 kW DC Rooftop Solar System

315,898

Kilowatt-hours

\$33,075

Year-1 Savings

\$815,267

Cumulative Savings

Creative energy solutions

TITAN





Suggested Project Timeline