MINUTES OF THE WBOE FACILITIES COMMITTEE

Tuesday, June 7, 2022

Conducted as a hybrid meeting: Superintendent's Conference Room & Webex

I. CALL TO ORDER: Jeff Hughes, Chair, called the meeting to order at 7:31 a.m.

PRESENT: Jonathan S. Budd, Ph.D., Superintendent (in person); Richard Huot, Interim Director of Business Services & Operations (in person); Vito Esparo, Facilities Manager (in person); Jeff Hughes, Facilities Committee Chair (in person); Brooke Hopkins, BOE (via Webex); Lynn Piasyck, BOE Chair, ex officio (in person)

II. PUBLIC COMMENT: There was no Public Comment.

III. JUNE 2022 FACILITIES REPORT

Mr. Esparo reviewed the attached report.

IV. FY23 WBOE CAPITAL BUDGET AS APPROVED, AND OTHER CAPITAL NEEDS

A. Solar Initiative

Committee members reviewed the attached document and attached solar initiative report, which was commended by Committee members.

IV. ADJOURNMENT

Meeting Adjourned: 7:58 a.m.

June 2022

Beecher Road School

Facilities Department Monthly Report

Completed Projects:

- On 4/I a leak was detected from a hose valve servicing the HW loop. A comparable part was in stock at a local vendor. The item was picked up and replaced that evening.
- On 4/7 a failing exterior door closer servicing one of the main K-wing exit doors was replaced.
- In early April a power supply issue on AHU3 servicing the North Gym was detected. Upon inspection on 4/11, blown fuses were observed. After troubleshooting with our controls vendor we tried swapping the malfunctioning TR150 drive with the TR150 drive salvaged from our recent AHU6 repair. AHU3 powered up with the salvaged drive and the unit has been online since the drive swap.
- During April break installation of the Sensory Pathway in Memory of Nicole was completed.
- Over the week of April 11th, a failing processor board in the elevator servicing the kitchen was replaced.
- On 4/12 the back-up batteries for our fire alarm panel were replaced upon recommendation.
- On 5/14 the HWP4 servicing the micro turbine was replaced. The pump is online.
- Late evening on Tuesday, 5/3, multiple fire alarms were reported in the South school area. Upon investigation a faulty pull station in the pool area was identified. The pull station was replaced that evening. The alarm was back online around 3am on 5/4.
- During May, multiple plumbing issues effecting classroom in S22 were reported. A
 plumbing back-up in a sanitary line was the culprit. In both cases the line was snaked
 that evening. We are working with the 5th and 6th grade team to raise awareness
 about non-flushable items.
- On 5/26 our micro turbine was in alarm. Our service vendor sent a technician that
 day. As part of our service agreement the repairs and other preventative maintenance from the visit were covered. Parts arrived the following morning and the repair was complete that day.
- During the months of April and May, 78 "fix-it" tickets were closed. This number is not inclusive of time-sensitive maintenance issues reported outside of fix-it. This number is also non-inclusive of the majority of HVAC repairs.

Projects in process:

- Our chiller service vendor is scheduled to be onsite during the week of 5/31/22 to drain the glycol protecting the chiller barrel and put the unit back into service. They seem to be experiencing staffing issues. We are hopeful it will be completed on time.
- We are in the process of preparing for summer cleaning. Supplies including floor stripper and wax will be purchased shortly.
- Test results from our water treatment program for our Dual Temp and Hot Water loops have remained within PH benchmarks. We have held off our May visit until the chiller is online.

Outstanding issues to be addressed:

Persistent roof leaks above the K-wing and North entrance continue to be monitored.

CLEAN

SAFE

HEALTHY

SCHOOLS

Vito Esparo Facilities Manager

Beecher Road School 40 Beecher Road Woodbridge, CT 06525

Phone: 203-389-2195 Fax: 203-389-2196



WOODBRIDGE SCHOOL DISTRICT



40 Beecher Road – South Woodbridge, Connecticut 06525

Jonathan S. Budd, Ph.D. - Superintendent

MEMORANDUM

TO: Woodbridg Board of Education Facilities Committee

FROM: Jonathan S. Budd, Ph.D., Superintendent

DATE: June 2, 2022

RE: June 7 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. Following discussion at the June 7 Facilities Committee meeting, the initiative will also be discussed at a June meeting of 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.
- 2. 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.



March 7th 2022



Onsite Generation Consulting

STEP



Proposal Delivery



Implementation Project

The road from proposal to finished product can have many twists and

& Verification Measurement

project is performing as comissioned we provide reports on production Peace of mind comes from knowing your intended, once and savings

> guide along the way turns; we'll be your

Utility Bill Review

Building Audit

feasibility requires a utility data to guide Discovering project thorough review of all future action

or many, we walk our management needs Each facility is unique, so uncover every important

detail before a proposal is created for the client

we take the time to

clients through the options Whether it's one proposal that best suit their energy



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 14th.



Beecher Road School Design



ASSUMED INTERCONNECTION POINT



RACKING CROSS-SECTION (NOT TO SCALE)

AVOIDED AREA DUE TO TREE SHADING (TYP.)



PROGRESS SET NOT FOR CONSTRUCTION

DATE 127 Washington Street North Haven, CT 06473 PH - 860.398.6408 FAX - 650.398.6423 Greenskies

BEECHER ROAD ELEMENTARY SCHOOL PV SOLAR ARRAY 40 BEECHER RO WOODBRIDGE, CT 06525 PROPOSED SITE PLAN

DESCRIPTION

CONTRACTOR PY SOLAR ARRAY LAYOUT

23 FTB 3222 PROPOSAL AS NOTED BATCH NO DRAWN BY SCALE DATE

PV.01

TITAN ENERGY
Creative energy solutions

SOLAR SAVINGS DASHBOARD

	Total Savings	\$33,075	\$66,895	\$101,472	\$136,815	\$172,933	\$209,839	\$247,541	\$286,051	\$325,379	\$365,537	\$406,535	\$448,385	\$491,098	\$534,687	\$579,162	\$624,536	\$670,821	\$718,029	\$766,174	\$815,267
	Annual Savings	\$33,074.52	\$33,820.67	\$34,576.67	\$35,342.68	\$36,118.85	\$36,905.33	\$37,702.29	\$38,509.89	\$39,328.29	\$40,157.66	\$40,998.18	\$41,850.01	\$42,713.32	\$43,588.30	\$44,475.13	\$45,373.98	\$46,285.04	\$47,208.50	\$48,144.56	\$49,093.39
Solar	\$/kWh	\$.0403	\$.0403	\$.0403	\$.0403	\$.0403	\$.0403	\$.0403	\$.0403	\$.0403	\$.0403	\$.0403	\$.0403	\$.0403	\$.0403	\$.0403	\$.0403	\$.0403	\$.0403	\$.0403	\$.0403
Eversource	\$/kWh	\$.1450	\$.1479	\$.1509	\$.1539	\$.1570	\$.1601	\$.1633	\$.1666	\$.1699	\$.1733	\$.1768	\$.1803	\$.1839	\$.1876	\$.1913	\$.1952	\$.1991	\$.2030	\$.2071	\$.2112
Solar	production	315,898	314,319	312,747	311,183	309,627	308,079	306,539	305,006	303,481	301,964	300,454	298,952	297,457	295,969	294,490	293,017	291,552	290,094	288,644	287,201
	Year	1	2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20

270 kW DC

Rooftop Solar System

315,898

Kilowatt-hours

\$33,075

Year-1 Savings

\$815,267

Cumulative Savings

\$815,267



6,026,672

Total

Review proposal with Woodbridge officials

No later than 3-15-22

Review solar agreement between Greenskies and Woodbridge

No later than 4-15-22

Greenskies to submit for Eversource incentives

No later than 4-15-22

Projects in engineering and design phase

No later than 1-1-23

Construction begins winter/spring 2023 (TBD)

Construction complete summer 2023 (TBD)