

Energy Efficiency Findings

Tewksbury Township

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August 2, 2022



CLIMATE CORPS

Today's Agenda

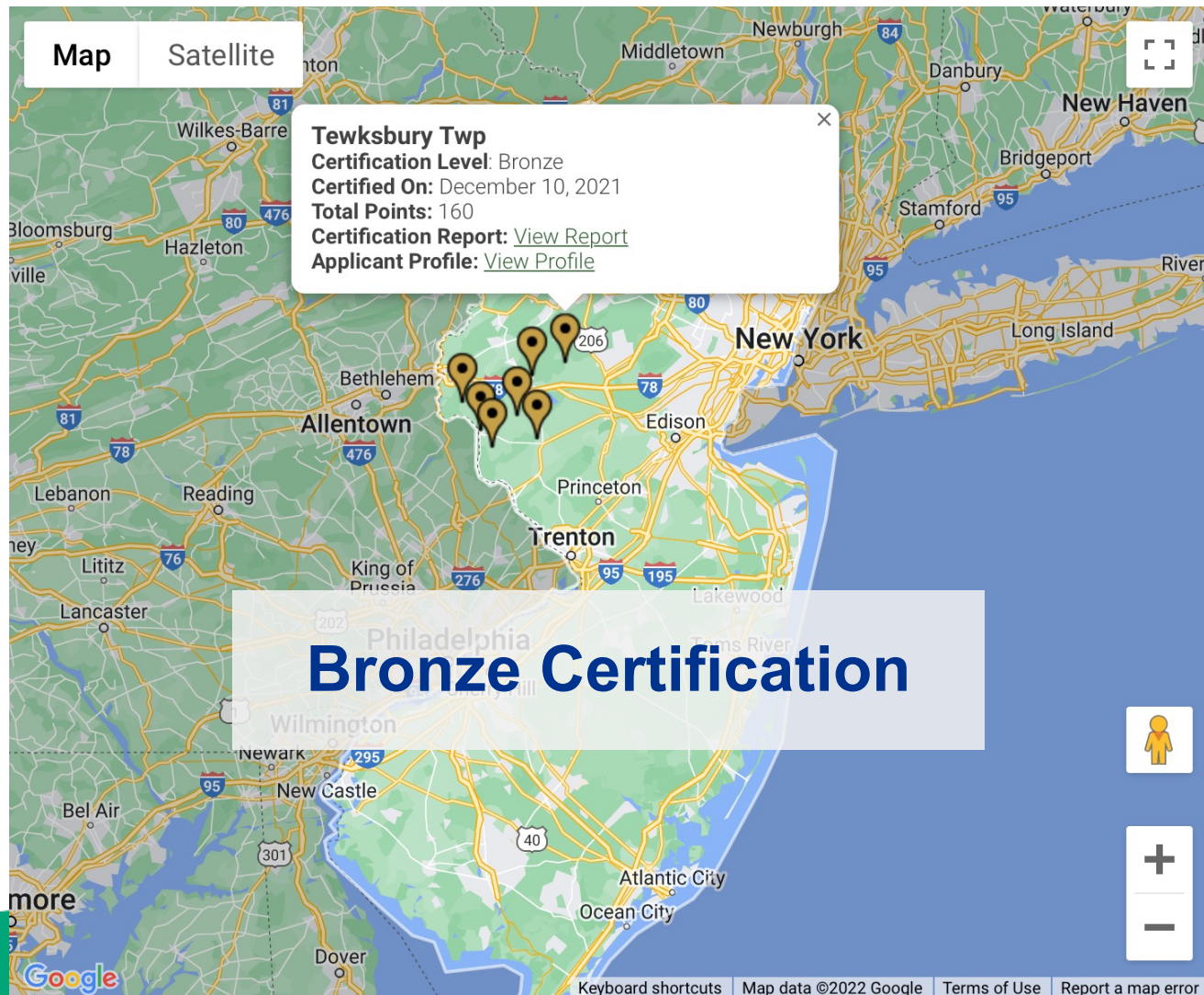
- EDF Climate Corps
 - Sustainable Jersey
 - Energy Challenge
 - Current Status
 - Findings
 - Recommendations
- 



Climate Corps = Graduate Students + Organizations

Clean Energy Projects

Sustainable Jersey



The Energy Challenge at Tewksbury Township

Building Inventory + Energy Usage + Incentive Programs



Building Inventory



Facilities



Building Inventory

- Police/Admin/DPW
- Christie Hoffman Farm Park Construction Office / Affordable Housing Unit
- Mountainville Meeting Hall / Court
- Bartles House - Affordable Housing Unit
- Whittemore Wildlife Sanctuary
- Rescue Squad Building
- Christy Bartles Sewer Facility
- Hunters Glen Sewer Facility
- Oldwick Sewer and Plant Pump



Utilities



Energy Usage Tracking



Admin/Police/DPW

Name Meter ID ▲	Energy Type ◆	Most Recent Bill Date ◆	In Use? (Inactive Date) ◆
Electric Grid Meter [REDACTED]	Electric - Grid	05/11/2022	Yes
Natural Gas #1 [REDACTED]	Natural Gas	04/25/2022	Yes
Natural Gas #2 [REDACTED]	Natural Gas	04/25/2022	Yes
Natural Gas #3 [REDACTED]	Natural Gas	03/24/2022	Yes

Energy Usage Tracking

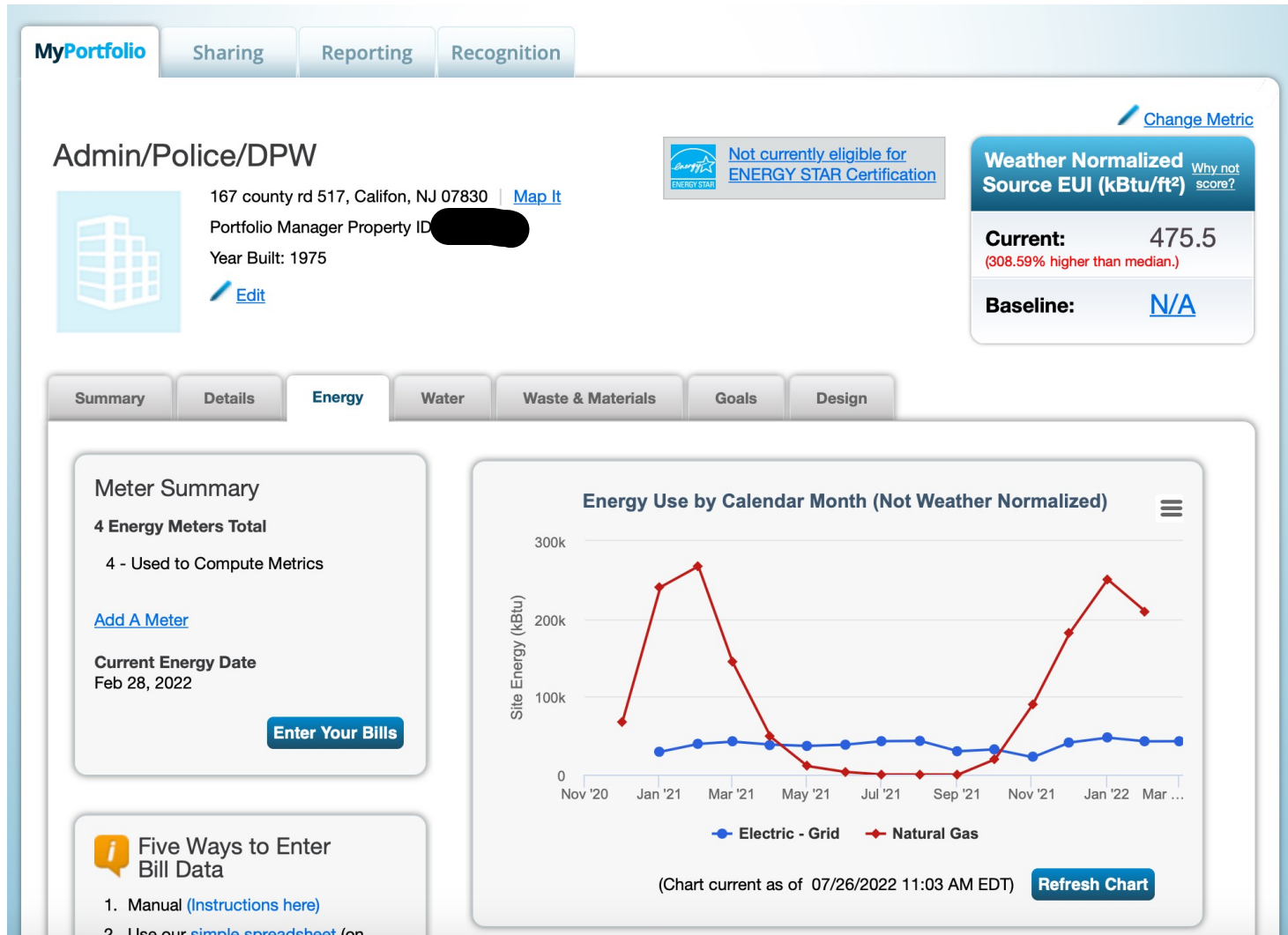


ENERGY STAR®
PortfolioManager®

Admin/Police/DPW

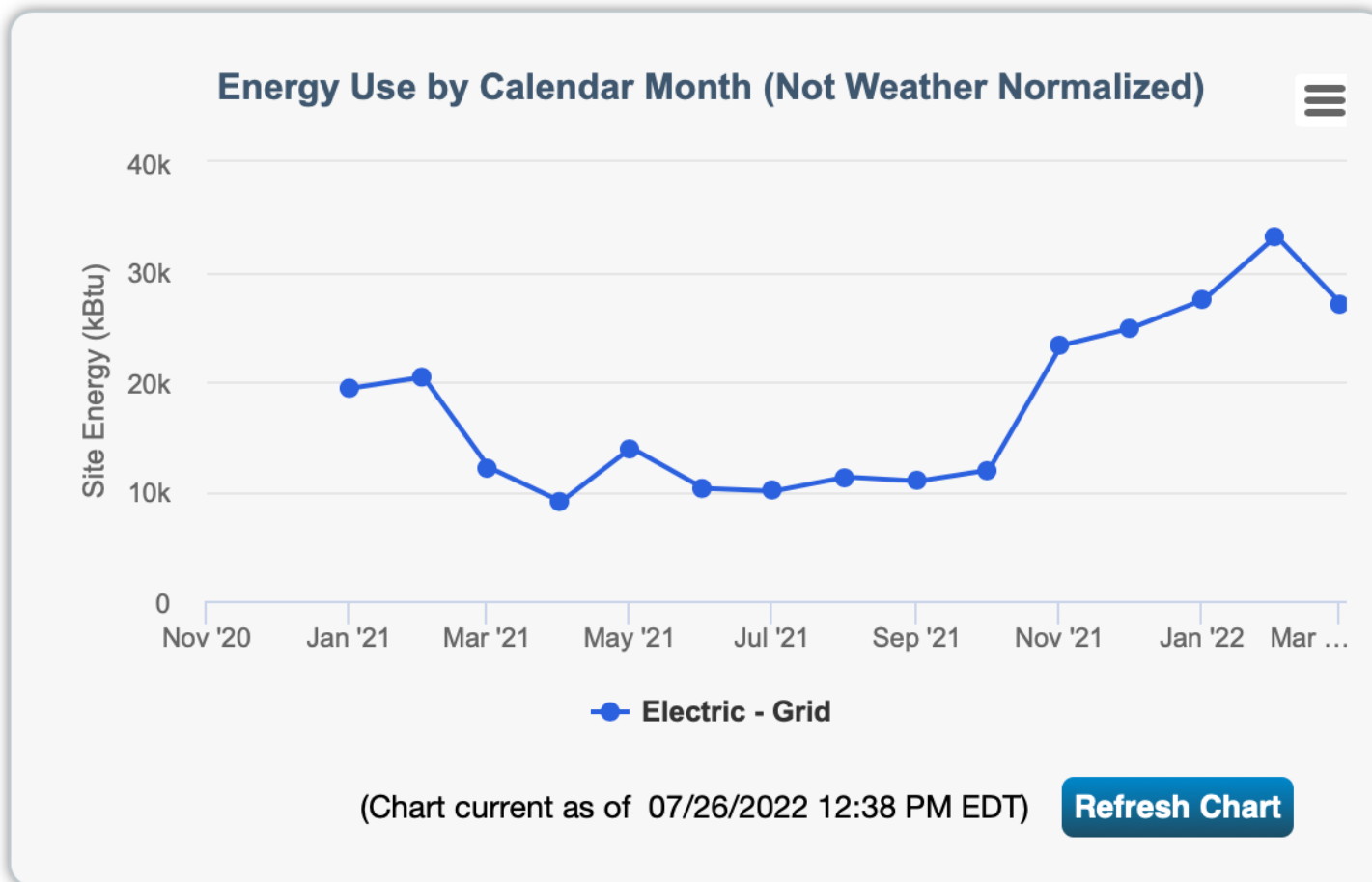
Monthly Entries									
Display Year(s): <input type="text" value="2022"/> <input type="button" value="Show All Years"/> <input type="text"/>									
	Start Date	End Date	Usage kWh (thousand Watt- hours)	Total Cost (\$)	Estimation	Green Power	Demand (kW)	Demand Cost (\$)	Last Updated
<input type="checkbox"/>	1/12/2021	2/9/2021	12,480	1,457.92	<input checked="" type="checkbox"/>	<input type="checkbox"/>	37.2		7/5/2022 tewksbury1
<input type="checkbox"/>	2/10/2021	3/9/2021	11,320	1,298.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29.8		7/5/2022 tewksbury1
<input type="checkbox"/>	3/10/2021	4/9/2021	12,360	1,407.72	<input type="checkbox"/>	<input type="checkbox"/>	31		7/5/2022 tewksbury1
<input type="checkbox"/>	4/10/2021	5/10/2021	11,400	1,344.67	<input checked="" type="checkbox"/>	<input type="checkbox"/>	36.1		7/5/2022 tewksbury1
<input type="checkbox"/>	5/11/2021	6/10/2021	10,520	1,250.6	<input type="checkbox"/>	<input type="checkbox"/>	32.5		7/5/2022 tewksbury1
<input type="checkbox"/>	6/11/2021	7/12/2021	12,600	1,472.28	<input type="checkbox"/>	<input type="checkbox"/>	34.6		7/5/2022 tewksbury1
<input type="checkbox"/>	7/13/2021	8/10/2021	12,000	1,409.77	<input checked="" type="checkbox"/>	<input type="checkbox"/>	33.4		7/5/2022 tewksbury1
<input type="checkbox"/>	8/11/2021	9/10/2021	12,640	1,489.89	<input checked="" type="checkbox"/>	<input type="checkbox"/>	32.9		7/5/2022 tewksbury1
<input type="checkbox"/>	9/11/2021	10/11/2021	7,320	930.41	<input checked="" type="checkbox"/>	<input type="checkbox"/>	32.9		7/5/2022 tewksbury1
<input type="checkbox"/>	10/12/2021	11/9/2021	10,000	1,227.54	<input checked="" type="checkbox"/>	<input type="checkbox"/>	33		7/5/2022 tewksbury1

Energy Usage Analysis



Energy Usage Analysis

Christy Bartles Sewer Facility



Incentive Programs



Direct Install

- Turnkey Process
- Minimal Cost
- Fast turn-around
- Ongoing savings
- Financing



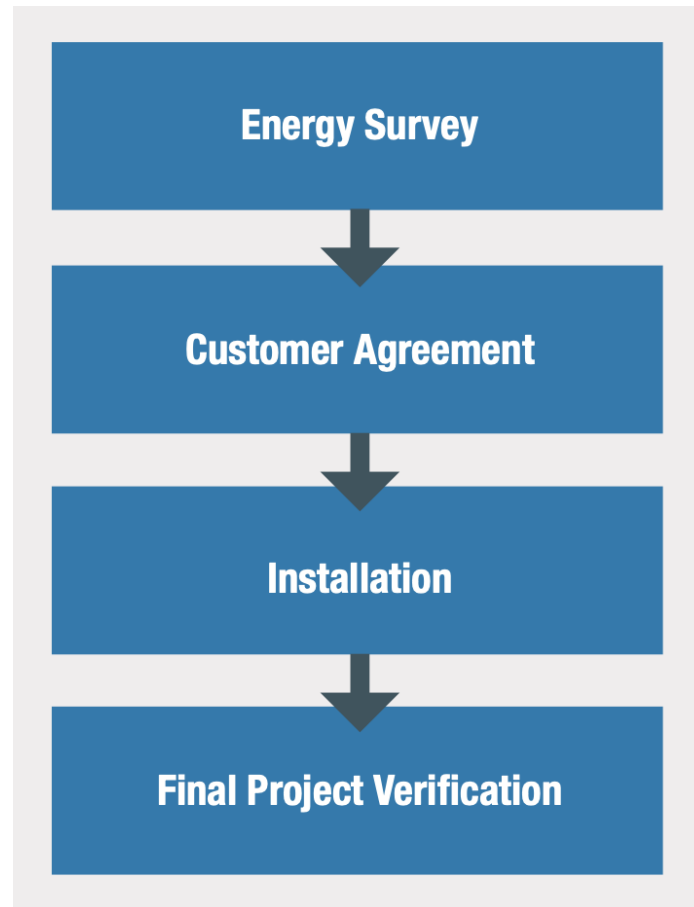
Direct Install

Representative energy efficiency measures

Technology	Energy Conservation Measure Description
 Lighting	LED bulbs
	Exteriors
	Fixtures
	Sensors
 HVAC	Smart thermostat
	Duct sealing
	AC tune-up

Direct Install

Step by step



Sustainable Jersey Actions

Municipal Energy Initiatives

Energy Tracking and Management

10 Points

 Priority for all certification levels

• THIS ACTION HAS VARIABLE POINTS: 10, 20

Energy Efficiency for Municipal Facilities

5 Points

 Priority for all certification levels

• THIS ACTION HAS VARIABLE POINTS: 5 — 50 • NON-COMPETITIVE FUNDING AVAILABLE

Energy Tracking and Management

- Earn 20 points
- Requirements
 - Building inventory
 - 12 months of data
 - Energy Star Portfolio Manager
 - Performance benchmarking
 - Ongoing tracking system



Energy Efficiency for Municipal Facilities

- Earn between 30 to 50 points
 - Decrease of Energy Use Intensity
- Requirements
 - Building inventory
 - Energy assessment
 - Energy efficiency upgrades
 - Reporting energy savings



Next Steps for Tewksbury Township



Recommendations

Short Term

Direct Install Findings

Priority:

Police/Admin/DPW

Christy Bartles Sewer Facility

Mid Term

Budgeting for
next DI project

Contact
engineering firm for
solar assessment

JCPL EV Driven Program

Long Term

Sustainable Jersey
Recertification

Solar implementation

EV Charging Station

Energy tracking through ESPM

Confirm upgrades have worked
Sustainable Jersey actions

Q&A



Thank you!

Rebeca Rodriguez



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