Business of the Village Board Village of Saranac Lake

SUBJECT: Project Man	nagement & Energy Servi	ce Company Date: 09/23/202	4
DEPT OF ORIGIN: Village Manager DATE SUBMITTED: 9/11/2024		Bill # <u>141-2024</u>	
		EXHIBITS:	
APPROVED AS TO FO	ORM:		
Village Attorney		Village Administration	
EXPENDITURE REQUIRED:	AMOUNT BUDGETED:	APPROPRIATION REQUIRED:	
	SUMMAR	Y STATEMENT:	
Resolution to engage Si (ESCO)	iemens Industry Inc. for p	roject management and energy serv	vices company
MOVED BY: SCO	llin_seconder	BY: Ryan	
VOTE ON ROLL CAL	L:	•	
MAYOR WILLIAMS	yes		
TRUSTEE RYAN	-yes_		
TRUSTEE WHITE	<u>yes</u>		
TRUSTEE SCOLLIN	918		
TRUSTEE BRUNETTI	e yls		

RESOLUTION TO ENGAGE SIEMENS INDUSTRY INC. FOR PROJECT MANAGEMENT AND ENERGY SERVICES COMPANY (ESCO)

WHEREAS, the Village of Saranac Lake issued a Request for Qualifications (RFQ) from qualified firms to provide project management and ESCO services for energy performance in the Village, and,

WHEREAS, the Village received three submissions by qualified firms, and,

WHEREAS, a selection committee reviewed the qualifications and interviewed the firms and recommend engage Siemens Industry Inc. to assist the Village with energy performance services, and

WHEREAS, Siemens Industry Inc. will propose an energy savings project to the Village, and

WHEREAS, the Village is under no contractual obligation to accept said project.

THEREFORE, BE IT RESOLVED, the Village of Saranac Lake Board of Trustees accepts the recommendation to engage with Siemens Industry Inc. for Energy Services Company (ESCO) services.



Village of Saranac Lake & Siemens

Energy and Infrastructure Partnership



Welcome & Introductions



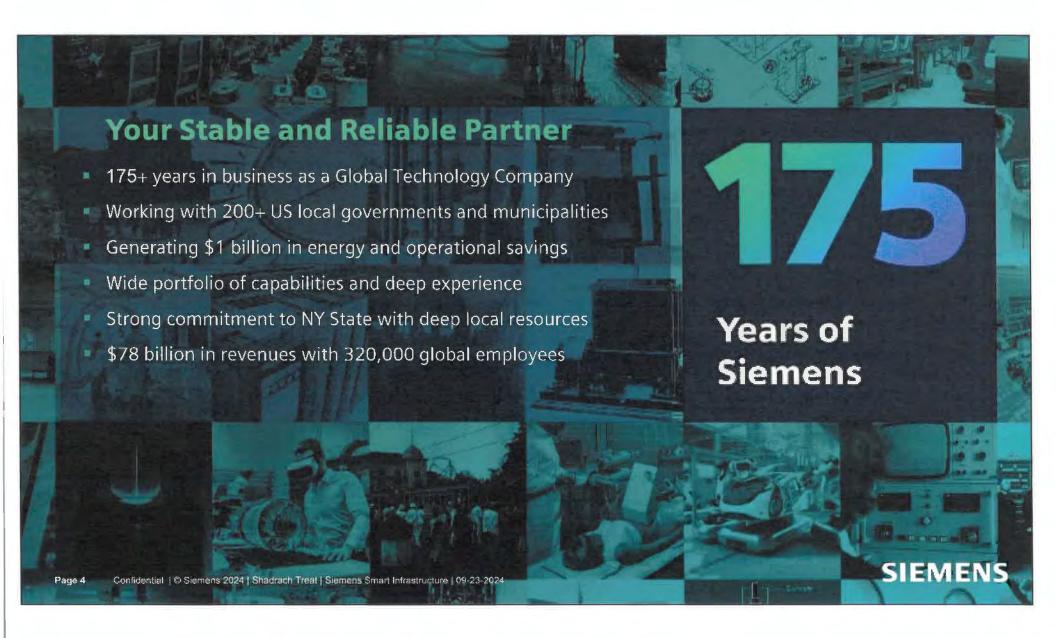
2 Energy Performance Contracting (EPC)



3 Programs and Process



1 Introductions **SIEMENS** Page 3

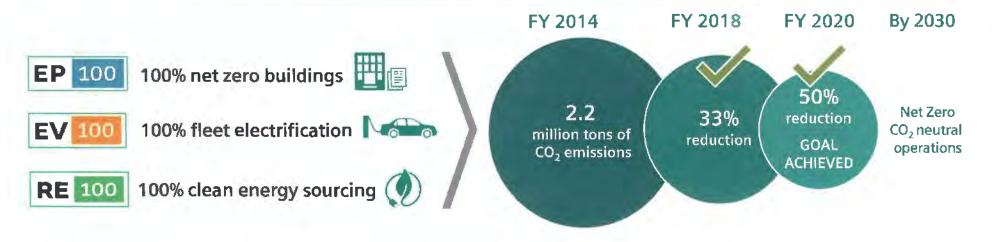


Siemens Corporate Decarbonization Performance

We walk the walk...

Levers for a CO₂ neutral Siemens by 2030

CO₂ reduction progress in our operations



To date we have **invested \$100M** into our own energy efficiency projects

This has produced \$20M of annual cost reduction for our operations

From 2024-30 we will invest \$650M decarbonizing our operations

Using our offerings Siemens customers avoided 160k Tons CO2e in FY 2023 alone



Partnership Alignment



Three main areas of focus

Technology, Energy, and Infrastructure Renewal

Sustainability & Electrification & Resiliency

Digitalization & Operational Excellence

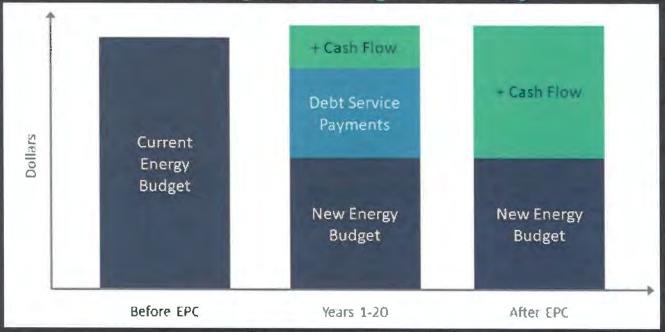
RFQ award allows Siemens to work with the Village to develop energy projects at Siemens risk



2 Energy Performance Contracting NY State Energy Law Article 9

New York State Article 9 (Energy Performance Contracting EPC)

Achieving Self-Funding Sustainability



- Energy & Operational savings fund additional capital needs
- ✓ Budget Neutral
- ✓ Single Source Responsibility
- ✓ No Change Orders
- Maximize all available incentives, grants and tax rebates
- Revenue Generation for Smart Village technologies

Siemens pragmatic approach to infrastructure

1. REDUCE

Energy Efficiency:

Drive down energy consumption and increase operational efficiency to reduce costs and your environmental impact.

4. PROTECT

Data-Driven Optimization:

Continuously analyze and optimize your buildings and operations to be more precise and effective with your investment decisions.

2. PRODUCE

On-Site Generation:

Generate and store energy on-site so that you are less reliant on the grid and have a more sustainable energy-mix.

3. PROCURE

Energy Supply Management:

Manage the energy purchasing process to lower total energy spend, mitigate risks and meet sustainability targets.



Our capability overview

Data Analytics "Edge Devices" (short life)

Sustainability & Decarbonization planning

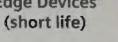
Consulting & **Technical Services**

Digitalization & **Building Analytics**

loT **Platform**

Grightly Asset Management

STEM to Workforce















System Layer



LED Lighting & controls

Smart. Connected **Buildings**



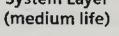
Building Electrification



Indoor Air Quality



Water Conservation



















Infrastructure Layer (long life)



Solar Photo Voltaic

Water & Wastewater EV Charging & **Smart Parking**

Real Estate Programming & Consolidation

LED Streetlights & **Traffic Signals** of Services



Micro Grid & Arenas, Pools & **Battery Storage** Playgrounds







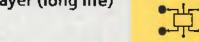












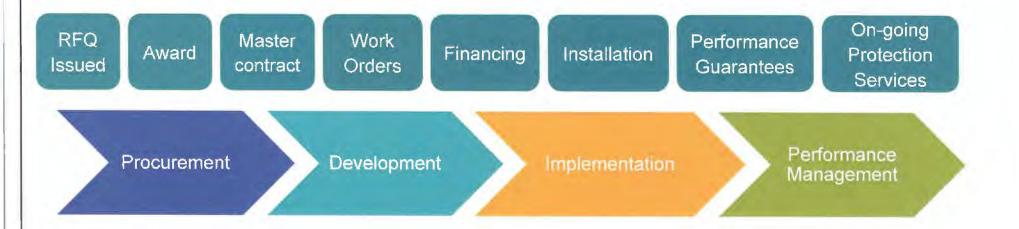




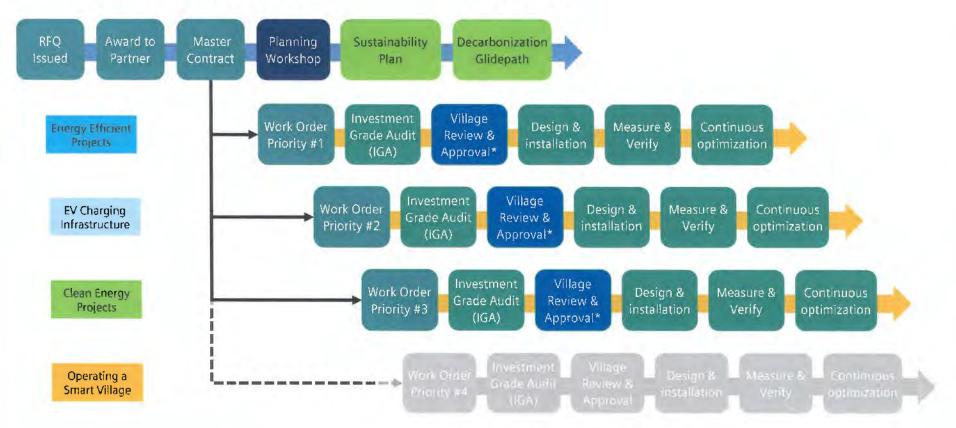




Energy and Infrastructure Partnership Process Overview



Energy and Infrastructure Partnership Process Steps



*Projects are developed at Siemens risk & each project requires Village approval



- **Energy Savings Performance Contract**
- Cooperative Purchasing Program Sourcewell
- PPA Power Purchase Agreement
- EaaS Energy-as-a-Service
- Utilities Monetization/Outsourcing
- Service Contracts

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- o Tax Exempt Municipal Lease
 - Grants Federal and State
 - **Utility Rebates & Incentives**
 - Asset Monetization Revenue Generation
 - Inflation Reduction Act Programs
 - Bipartisan Infrastructure Law
- Bond
- Debt/Equity Finance

Overview of Siemens Approach

Team approach

- Collaborative with Village departments
- Work with strategic partners of Village
- Iterative process focused on highest needs
- No risk Development Agreement
- Design Build Methodology



Holistic approach

Reinventing, rebuilding & strengthening Village infrastructure across portfolio

Leverage NYS Energy Law Article 9

Guaranteed Energy Savings + Grants = Infrastructure Renewal

Assured price - No Change Orders



Broad technology & solutions portfolio expertise

- Broad knowledge of energy technology.
- Implementation best practices,
- On-going asset protection services
- · We are also product agnostic



Flexible financial models

- · Tax Exempt Municipal Lease (TEML)
- · Power Purchase Agreements (PPA)
- Energy-as-a-Service
- Bonds
- Siemens Financial Services



Deep NYS experience

Continued success with our multi-phase guaranteed Energy Performance Contracting customers across NYS

- Rensselaer County
- City of Troy
- · City of Buffalo
- City of Oswego
- · City of Fulton
- City of Johnstown
- · Town of Clarkstown
- Gloversville ESD
- City of Glenns Falls
- Oxford Academy



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4 Use Case Studies **SIEMENS** Page 17



PERFORMANCE CONTRACTING REFERENCE

City of Johnstown Johnstown, New York

The City of Joinntown is located in Folton County in Upstate New York. In: 2019 the City entered into a performance contracting agreement with Siemens for the acquisition of street lights and LED opgrades along with needed facility improvement measures to its City Hall and Department of Public Works.



PERFORMANCE CONTRACTING REFERENCE

City of Troy Troy, New York

The City of Troy is located in Rensselaer County in New York State. It is one of three major centers for the Albany metropolitan anta. Semens rus had a very long-standing relationship with the City. After a successful Place 1 project that included facility improvement measures at two Police Stations, six Fire Mations, Knitkerbacher Arena, the Department of Public Works, and two Parking Garages in 2011; the City contracted with Siemens for two additional phases that include a Police Station, Parking Garages, six Fire Stations and the Department of



PERFORMANCE CONTRACTING REFERENCE

Rensselaer County

Troy, New York

The first phase of our project with Renoselate County involved energy efficiency improvements to the County's Municipal building. This was followed by improvements in the operation and capacity of the WWTP. Siemens developed solutions to resolve issues with the existing studge reduction process, which included the conversion of three sludge holding tanks to anaerobic digesters. The Phase 2 aspect of the project involved Siemens: advanced solution for studge disposal whereby a natural pastmethane direct fired studge driver was installed This device eliminates the need for monofill space or off site removal, saving the sewer district in excess of \$1. million per year. A third phase just yielded \$1.3 million in actual savings after the first year of the guarantee.



PERFORMANCE CONTRACTING REFERENCE

Van Rensselaer Manor

Troy, New York

The Van Bensselver Manor The Manor is a large 362-best facility built in 1996 on a beautiful campus in North Greenbuch, New York. The Manor is core; dered to tall be a state of the art facility as it was when it originally opened over 25 years ago. Siemens is proud to have played a role in keeping this accolade by updating the facility through three phases of energy saving performance contracting projects.