

Making Green by Going Green

The Village of Lima's NYSERDA CEC Story

John Wadach, Deputy Mayor
jwadach@VillageOfLima.us

Lima Demographics

- 2,100 Residents
- Median Income \$60,625
- 2020 Election: Trump 54% Biden 42%
- Annual Tax Levy \$550,000



2017 Village Election



Please Vote For

John Wadach

Village of Lima Trustee

Election Day: Tuesday, March 21

Noon-9pm at the Lima Town Hall

- Transform Lima into a Clean Energy Community
- Ensure that our Drinking Water System is Well Maintained
- Create a Comprehensive Infrastructure Maintenance Plan

Perception: Green Costs More

Reality: Green Makes Green

Village of Lima NYSERDA Clean Energy Community Program Financial Summary

High Impact Practice	CEC Points	Cumm. Points	Village Cost (\$)	Grant Earned (\$)	Grant Source	Cummulative Benefit(\$)
Unified Solar Permit	200	200	\$ -	\$ 2,000	NYSERDA CEC	\$ 2,000
Benchmarking	100	300	\$ -	\$ -		\$ 2,000
Energy Code Training	200	500	\$ -	\$ -		\$ 2,000
Clean Fleets (EV Charger)	100	600	\$ 5,741	\$ 9,784	DEC ZEV & NYSERDA CEC	\$ 6,043
Clean Energy Upgrades	500	1100	\$ -	\$ -		\$ 6,043
LED Street Lights	900	2000	\$ -	\$ -		\$ 6,043
NY Stretch Energy Code	1200	3200	\$ -	\$ 5,000	NYSERDA CEC	\$ 11,043
Community Choice Aggr.	2000	5200	\$ -	\$ 130,000	NYSERDA CEC & Joule Energy	\$ 141,043

Unified Solar Permit (Start with the Low Hanging Fruit)

- Simplifies Code for Rooftop Solar Panels
- Required Adoption of a Local Law
- \$2,000 Grant
- 200 CEC Points

Benchmarking

- EPA Site for Tracking Energy Usage
- <https://www.energystar.gov/buildings/benchmark>
- Used to Identify Wasteful Energy
 - Fathom Street Lights
 - More Costly ESCO Contracts

Ambulance Station



West Main Street, Lima, NY 14485 | [Map It](#)

Portfolio Manager Property ID: 5942049

Year Built: 2005

[Edit](#)



Not currently eligible for
ENERGY STAR
Certification

**Weather Normalized
Source EUI (kBtu/ft²)** [Why not score?](#)

Current: 106.8
(14.46% lower than median.)

Baseline: 134.0
(7.35% higher than median.)

Summary

Details

Energy

Water

Waste & Materials

Goals

Design

Meter Summary

2 Energy Meters Total

2 - Used to Compute Metrics

[Add A Meter](#)

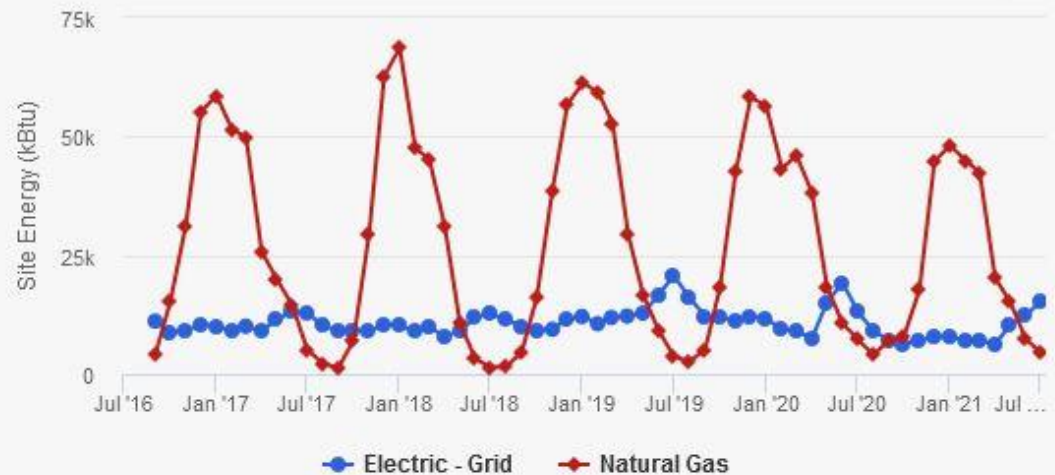
Current Energy Date
Jul 31, 2021

[Enter Your Bills](#)

Five Ways to Enter Bill Data

1. Manual ([Instructions here](#))
2. Use our [simple spreadsheet](#) (on the bottom of each meter's Manage Bills page) to upload or Copy/Paste
3. Use our [complex spreadsheet](#) (multiple meters, multiple...

Energy Use by Calendar Month (Not Weather Normalized)



(Chart current as of 04/02/2022 04:32 PM EDT)

[Refresh Chart](#)

[Export Data by Calendar Month](#)

Meters - Used to Compute Metrics (2)

[Add A Meter](#)

Energy Code Training

- Code Enforcement Officer Attends
- Ensures Buildings Meet Current Code
- 200 CEC Points

Clean Fleets (EV Charger)

- \$5,741 Cost
- \$5,000 NYSERDA CEC Grant
- \$4,784 DEC ZEV Grant
- \$4,043 Profit
- 100 CEC Points



Clean Energy Upgrades

- 360 kW-AC Solar Array
- 500 CEC Points
- Financed with Power Purchasing Agreement
 - \$0.087 per kWh fixed rate for 25 years
- Provides Credits on National Grid Bill
 - Value Stack Rate \$0.05 to \$0.21 per kWh

2-Acre Solar Array



Lima Solar Array Output

<https://villageoflima.us/>

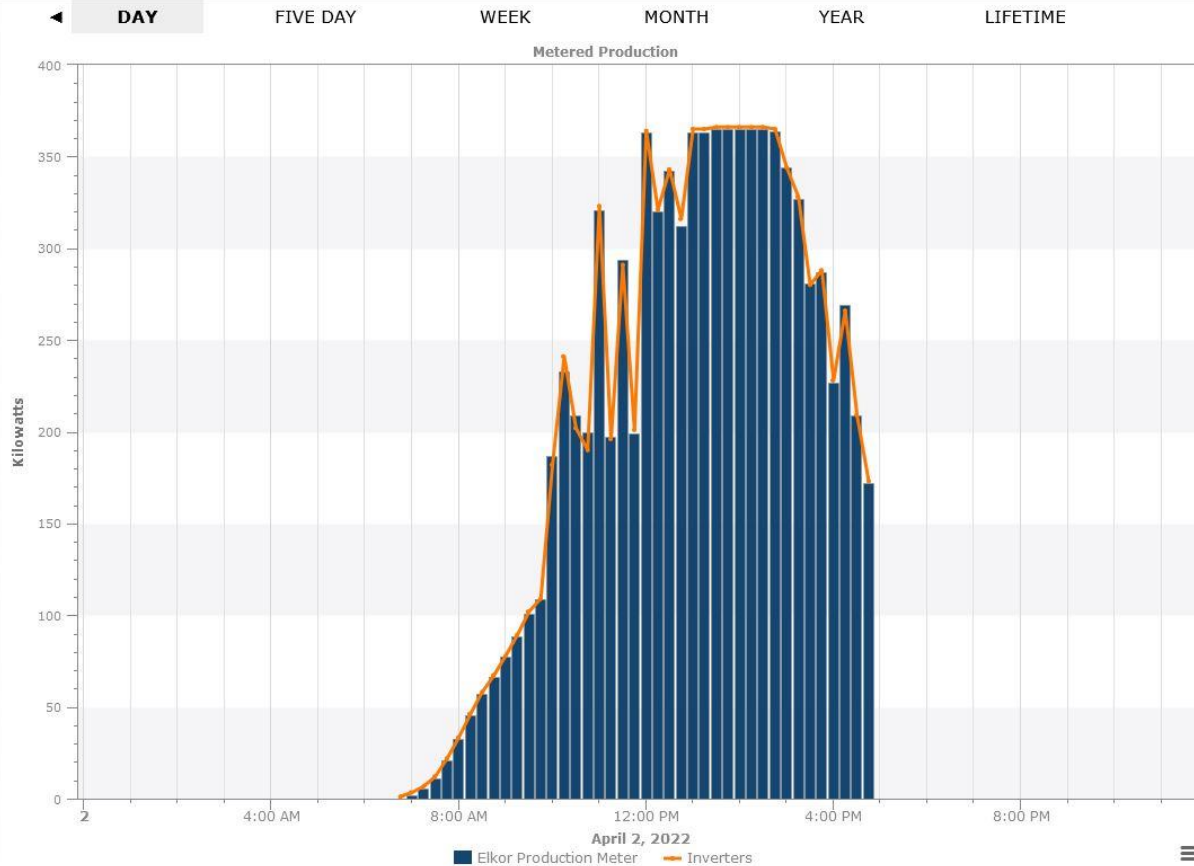
176 kW
POWER

2.18 MWh
TODAY

3.07 MWh
THIS MONTH

82.3 MWh
THIS YEAR

1.16 GWh
LIFETIME



SYSTEM SIZE: 360 kW AC

OPERATING SINCE: 12/17/2019

OUR IMPACT:

MONTH

LIFETIME



trees
20,581
Trees planted



gas
90,318
Gallons of gasoline



energy
1.16 GWh
energy produced



water
582,010
Gallons of water



LED Street Lights

- Purchased Depreciated Value from National Grid
- New York Power Authority State Contract
- Monitoring and Maintenance Included
- NYPA Financed - Revenue Neutral for 13 years
 - \$20,000/year Lease Savings
 - \$6,000/ year Energy Savings
- Replace Cobra and Decorative Fixtures
- 900 CEC Points



NY Stretch Energy Code

- 11% More Energy Savings
- Adds About \$2,000 to Cost of New Home
- 6-Year Simple Payback
- \$5,000 CEC Action Grant
- 1,200 CEC Points

Community Choice Aggregation

- Offer Two Opt-Out Programs
 - Community Solar
 - 100% NYS Renewable Electricity
- Community Solar (> 90% Participation)
 - Provides 10% Savings
 - Can Opt-Out at Anytime
 - Single Billing via National Grid
 - ~ \$30,000 Grant from Joule Community Power



- 100 % Renewable Supply (60% Participation)
 - Provides Fixed Rate of \$0.0591/kWh for 2 Years
 - Can Opt-Out at Anytime
 - Benchmark of \$0.044/kWh Disadvantageous
 - Combining with Community Solar Key to Adoption
 - Provided Savings Thus Far
- 2000 CEC Points
- \$100,000 CEC Grant



If Lima Can Do It, So Can You!

Village of Lima



*A NYSERDA Clean Energy
Community*

2,139

POPULATION (2010 CENSUS)

**Finger Lakes
REGION**

**Livingston
COUNTY**

45

DESIGNATED COMMUNITIES
IN THE REGION

408

DESIGNATED COMMUNITIES
STATEWIDE

11

ACTIONS COMPLETED



5,200

POINTS EARNED

High Impact Actions

	Count	Points
Benchmarking	1	100
Clean Energy Upgrades	1	500
Clean Fleets	1	100
Community Choice Aggregation	2	2,000
Energy Code Enforcement Training	2	200
LED Street Lights	2	900
NYStretch Energy Code	1	1,200
Unified Solar Permit	1	200
Grand Total	11	5,200

Leaderboard

Regional Leaders

	Points
City of Canandaigua	5,300
Village of Lima	5,200
Town of Geneva	4,700