



2020 Sustainable Jersey Energy Grants Cycle Funded by The Gardinier Environmental Fund

Kaitlyn Vollmer, Grants Program Coordinator
Zenon Tech-Czarny, Research and Project Specialist
Hogan Dwyer, Research and Project Specialist





Presenters



Kaitlyn Vollmer
*Grants Program
Coordinator*



Zenon Tech-Czarny
*Research and
Project Specialist*



Hogan Dwyer
*Research and
Project Specialist*



Background



The Gardinier Environmental Fund is contributing \$100,000 to support a Sustainable Jersey Grants Program cycle for municipal governments and public school districts focused on energy conservation, efficiency and renewable energy



Available Funding



This 2020 Grants Cycle is underwritten by the Gardinier Environmental Fund:

- Two (2) \$20,000 grants
- Six (6) \$10,000 grants

At least 50% of the available grant funding pool will be reserved for awards to certified municipalities and school districts with certified schools.

An applicant is only eligible to apply for and receive one grant. However, collaboration on a project between municipalities and schools is encouraged.



Eligibility



- Registered in the Sustainable Jersey or the Sustainable Jersey for Schools Program
 - School district applicants can check [here](#) and municipal applicants can check [here](#).
- Have an active green team
 - School district applicants can view the action [here](#) and municipal applicants can view the action [here](#).
- Previous grant recipients must be up to date with their reporting requirements
 - Use the chart on the next slide to determine if you need to close out an open grant in order to be eligible to apply for a new one
 - Reach out to grants@sustainablejersey.com **as soon as possible** to confirm previous grant status if unsure—can likely close out in time for a new grant application to be submitted



Previous Grant Recipients



Grant Cycle of Previous Award	Amount	Grant Status	Eligible to Apply for \$10,000 Grant
2020 PSEG	\$10,000 or more	Open	No
		Closed +	No
	\$2,000	Open	Yes
		Closed +	Yes
2019 PSEG, NJEA*, or Gardinier	\$10,000 or more	Open	No
		Closed +	Yes
	\$2,000	Open	Yes
		Closed +	Yes
2015-2018 PSEG, NJEA, or Gardinier	\$10,000 or more	Open	No
		Closed +	Yes
	\$2,000	Open	No
		Closed +	Yes

**Grants awarded in the 2019 NJEA cycle were technically distributed in 2020, however, they are still considered 2019 grants*



Use of Funding



Types of Eligible Projects

**Energy Reliability and Resiliency ● Energy Conservation ● Renewable Energy
Building Electrification ● Energy Efficiency ● Studies, Plans, and Engineering
Alternative Fuel Vehicles / Transportation Electrification**



Applicants applying for energy efficiency projects must apply for any available funding through NJCEP and utility programs to be eligible to apply for a Gardinier grant (to cover remaining costs)



Applying for Incentives



- Energy incentive(s) an applicant is currently applying for/has been awarded **must be included in project budget**
 - If not awarded the incentives, the project budget can be revised
 - If incentives are not applicable to the project, they are not required to be in the project budget
- Documentation of communications with the programs that state the applicant's eligibility for funding must be uploaded as part of the grant application

State and Utility Incentive Programs

Questions? Contact Nancy Quirk, Energy Program Manager, at quirkn@tcnj.edu or at 609-771-2902

PROGRAM	INCENTIVE LEVEL	TYPE OF EQUIPMENT
For all NJCEP incentive programs, call 866-657-6278, email Outreach@NJCleanEnergy.com , or visit: www.NJCleanEnergy.com/CI		
NJCEP Direct Install	<ul style="list-style-type: none"> Existing facility (average peak demand <200kW) Incentive up to 70% of installed cost eligible upgrades Incentive up to 80% of installed cost for Municipalities, K-12 public schools, and customers in UEZs or Opportunity Zones 	<ul style="list-style-type: none"> Lighting Heating, Cooling & Ventilation Refrigeration Variable Frequency Drives
NJCEP SmartStart Buildings	<ul style="list-style-type: none"> Prescriptive Incentives: fixed amounts for specific equipment Custom Incentives: based on cost/energy savings analysis Customer Tailored Energy Efficiency Pilot Program (CTEEP) Design/Engineering assistance available 	Prescriptive Incentives doubled for Municipalities, K-12 public schools, and customers in UEZs or Opportunity Zones For details on equipment incentives: SmartStart Buildings Application
NJCEP Pay for Performance (P4P)	<ul style="list-style-type: none"> New construction (>50,000 square feet of conditioned space planned) or existing facility (>200kW peak demand) Incentive based on energy savings up to 25% of project cost 	Incentive cap raised for existing buildings to 40% for Municipalities, K-12 public schools, and customers in UEZs or Opportunity Zones
NJCEP Combined Heat and Power	<ul style="list-style-type: none"> Incentives based on installed rated capacity \$2 million cap for projects < 500 1MW \$3 million cap for projects > 500 1MW 	Gas Internal Combustion Engine; Gas Combustion Turbine; Fuel Cell; Microturbine; Waste Heat to Power
NJCEP Residential Incentives	<ul style="list-style-type: none"> Home Performance with Energy Star (HPwES) <ul style="list-style-type: none"> Up to \$4,000 in incentives; additional bonus for residents in Urban Enterprise Zones 0% or low interest financing available Comfort Partners <ul style="list-style-type: none"> household income below 250% federal poverty level Multi-Family Energy Efficiency <ul style="list-style-type: none"> Existing/new construction; five or more dwelling units, Residential New Construction 	Energy audit and efficiency upgrades Appliance rebates (refrigerator, furnace/boiler, washer/dryer, water heating, air conditioning) State Energy Program funding available for oil, propane and municipal electric customers
Utility Company Incentives	<ul style="list-style-type: none"> Complement NJCEP incentives May offer on-bill repayment; may offer 0% interest financing Programs for government facilities, businesses, and residences 	Incentives vary by service territory: check utility website for details
Utility Company Websites	Elizabethtown Gas (residential): www.elizabethtowngas.com/residential/energy-savings/high-efficiency-equipment-rebates Elizabethtown Gas (commercial): www.elizabethtowngas.com/business/energy-savings NJNG (commercial and residential): www.savegreenproject.com PSEG (commercial): nj.pseg.com/businessandcontractorservices/saveenergyandmoneyforbusiness/directinstallprogram South Jersey Gas (commercial): www.southjerseygas.com/Save-Energy-Money/Commercial-Energy-Savings.aspx South Jersey Gas (residential) www.southjerseygas.com/Save-Energy-Money/Residential-Savings.aspx	
NJDEP It Pay\$ to Plug In	<ul style="list-style-type: none"> Up to \$750 per Level 1 charging station Up to \$4,000 per Level 2 charging port 	Charging stations may be installed at workplaces, public places, and multi-unit dwellings



NJCEP Incentives



- For all NJCEP incentive programs, call 866-657-6278, email Outreach@NJCleanenergy.com, or visit: www.NJCleanEnergy.com/CI

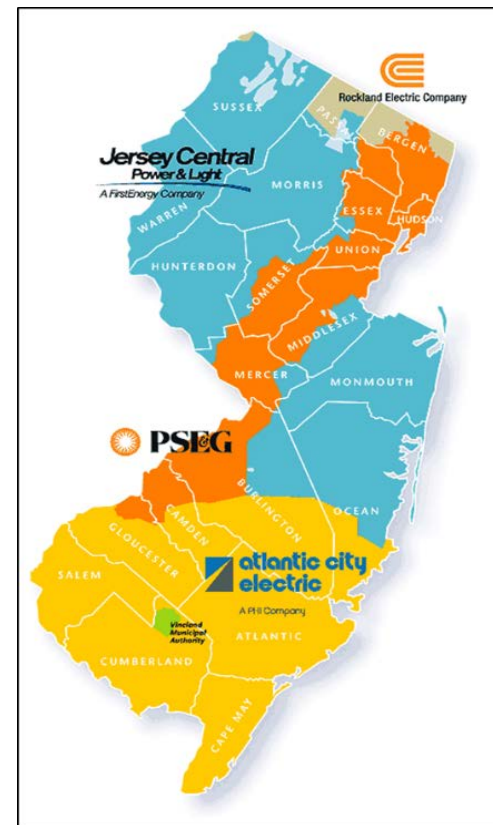
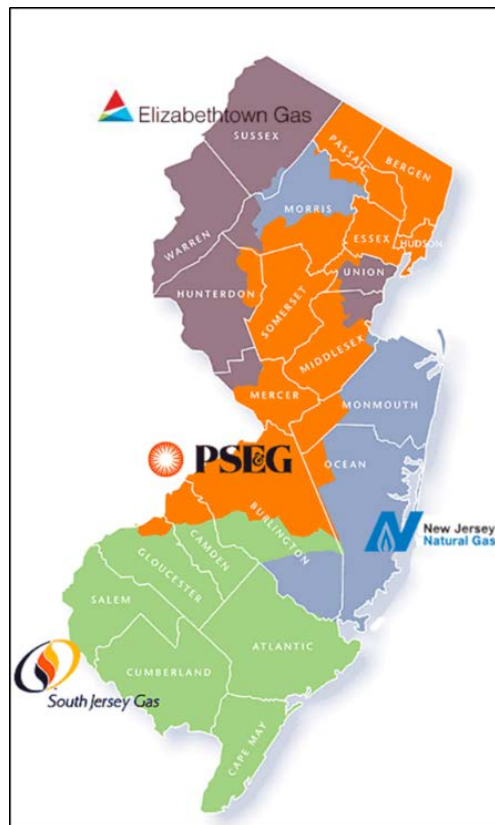
Programs
Direct Install
SmartStart Buildings
Pay for Performance (P4P)
Combined Heat and Power
Residential Incentives



Lighting **ONLY** energy efficiency upgrade projects are not eligible—includes street, stadium, parking lot, and other exterior/interior lighting. Can be included in a larger direct install project.

Utility Incentives

- Complement NJCEP incentives
- Incentives vary by utility
 - Contact your local natural gas and electric utilities
- Programs for government facilities, businesses, and residences
- May offer on-bill repayment; may offer 0% interest financing



A list of available state and utility incentives are included in the chart in Section M. of the Application Information Package



Confirmation of Eligibility



From: Rivera, Kevin <KRivera@trcsolutions.com>
Sent: Wednesday, September 05, 2018 11:52 AM
To: [REDACTED]
Subject: RE: Eligibility question for Sustainable Jersey Gardinier Grant Program

This measure would not qualify for C&I incentives under the NJCEP.

*Kevin Rivera
Program Manager, Efficiency*



900 Rte 9N. - Suite 404, Woodbridge, NJ. 07095
T: 732.855.0033 ext. 12891 | F: 732.855.0422

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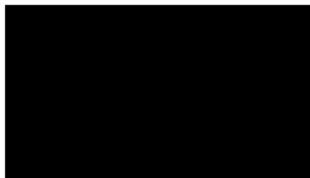
From: [REDACTED]
Sent: Wednesday, September 05, 2018 11:44 AM
To: directinstall@nicleanenergy.com
Subject: Eligibility question for Sustainable Jersey Gardinier Grant Program

Hello,

I am working with the [REDACTED] to prepare an application to the Sustainable Jersey Grants Program for Energy Initiatives funded by the Gardinier Environmental Fund. The Borough would like to install instant electric hot water heaters throughout its municipal buildings in order to reduce reliance on its oil fired furnace for hot water. The instant hot water heaters will be installed by each sink, and they will only be used when the hot water is turned on.

Can you assist me in determining whether this project would be eligible for any of the NJCEP incentive programs?

Thanks,
[REDACTED]



- An email to the applicable program using the contact information provided in Section M of the Application Information Package
- Confirmation of the dollar amount of the funding is **not** required. The documentation only needs to confirm whether or not the project is eligible to receive funding from any of the applicable incentive
 - Estimations are okay for the budget



Alternative Fuel Vehicles



- Applicants interested in purchasing alternative fuel vehicles are only eligible to apply for class 4-8 medium and heavy-duty vehicles such as:

- Delivery/Freight Trucks
- Garbage Trucks
- School, Shuttle, and Transit Buses
- Snow Removal Vehicles



- Applicants interested in purchasing light-duty electric vehicles such as police, code enforcement, and utility vehicles should review:
 - Sustainable Jersey AFV Procurement Guide available at <http://www.bit.ly/AFVProcurementGuide>
 - NJDEP flyer available at <http://www.bit.ly/EVResourcesFlyer>







Alternative Fuel Vehicles



- Applicants interested in purchasing light-duty electric vehicles should apply for the [NJBPU Clean Fleet Electric Vehicle Incentive Program](#)

- \$4,000 grant toward a municipal EV
- \$1,500 toward a dual-port Level 2 EV charging station

PEVs Available on New Jersey State Purchasing Contract for FY20

2020 Chevrolet Bolt EV (Hatchback)		\$32,190 7% Discount
2019 Nissan Leaf (Hatchback)		\$26,894 11% Discount
2020 Ford Fusion Energi Titanium (Sedan)		\$29,912 6% Discount
2020 Toyota Prius Prime (Hatchback)		\$24,690 11% Discount

EV Charging Stations



- Applicants interested in purchasing EV charging station(s) should apply for NJDEP's [It Pay\\$ to Plug In Program](#)
 - Up to \$750 per Level 1 charging station
 - Up to \$4,000 per Level 2 charging port
 - Up to \$200,000 per location for public DC Fast Chargers along major roads





Energy Actions



	Energy Conservation	Renewable Energy	Alternative Fuel Vehicles
Operations	<ul style="list-style-type: none"> • Behavior Based Conservation (Schools) • Energy Tracking and Management • Energy Efficiency for Facilities • Green Roof(s) 	<ul style="list-style-type: none"> • On-Site Solar Energy • On-Site Geothermal • On-Site Wind Energy • Purchase Renewable Energy 	<ul style="list-style-type: none"> • Fleet Inventory • Meet Target for Green Fleet • Purchase AFVs • Sustainable Fleets
Community	<ul style="list-style-type: none"> • Residential Energy Efficiency Outreach • Commercial Energy Efficiency Outreach 	<ul style="list-style-type: none"> • Community Choice Aggregation (R-GEA) • Make Your Town Solar Friendly • Community-Led Solar Initiatives • Community Solar 	<ul style="list-style-type: none"> • Make Your Town EV Friendly • Public EV Chargers

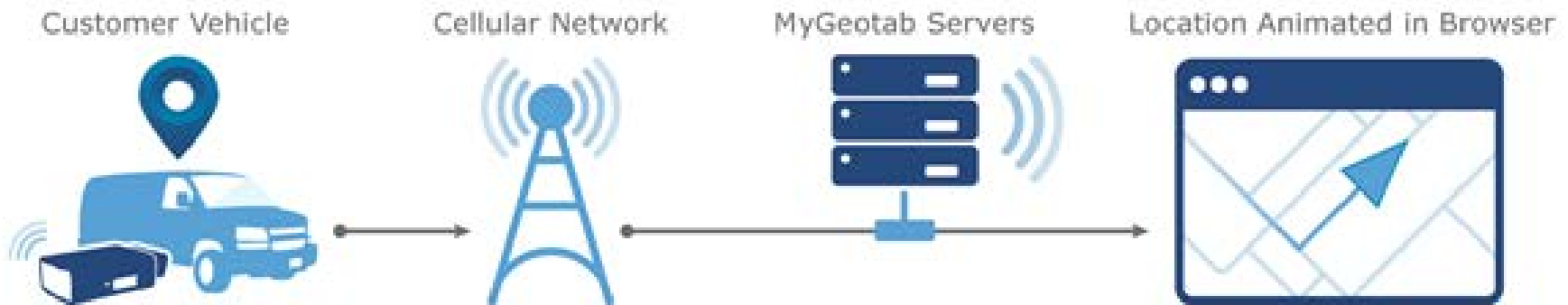
Fleet Management System

- Vehicle tracking
 - Miles traveled
 - Duty cycle
 - Driver behavior
- Right sizing fleet
- Identify EV opportunities



Fleet Management Software

https://www.linuxup.com/images/tablet_map.png

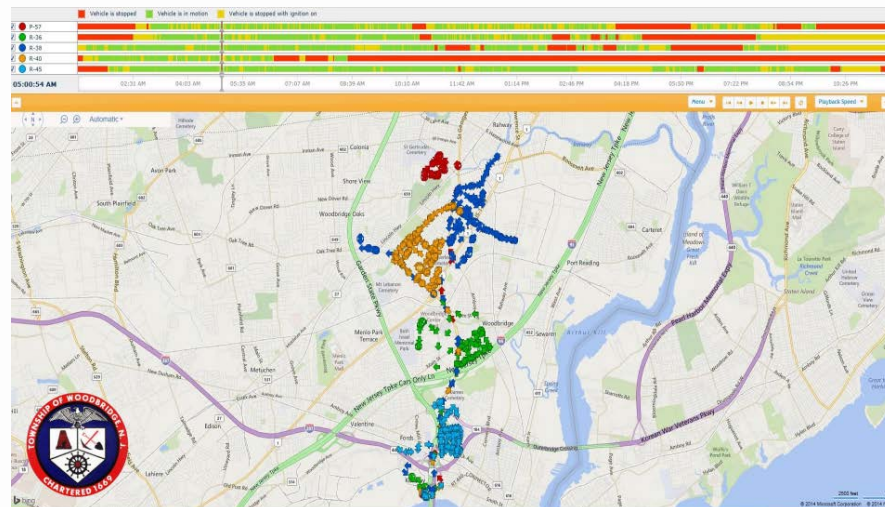


Telematics Diagram

<https://www.colorado.gov/pacific/dca/telematics>

Route Optimization

- Planning optimal routes improves efficiency by reducing
 - miles driven
 - stops at signals
 - time spent in traffic
 - number of vehicles needed



Woodbridge Snowplow Routes



Sussex, NJ Salt Dome

<https://www.sussex.nj.us/cn/webpage.cfm?tpid=14382>

For more information:

U.S. Department of Energy
Alternative Fuel Data Center

https://afdc.energy.gov/conserve/behavior_strategies.html



Alternative Fuel Vehicles



- Alternative fuels
 - Electric
 - Hydrogen (Fuel Cell)
 - CNG
- Heavy-duty vehicles
 - School, shuttle, and transit buses
 - Garbage trucks
 - Delivery/freight trucks
 - Snow removal vehicles

No funding for light duty EVs



Electric School Bus

https://commons.wikimedia.org/wiki/File:Thomas_Saf-T-Liner_eC2_Jouley_-_Front_and_right_side_IAA_2018.jpg



Newark's CNG Truck Fleet

Image Source: City of Newark Press Office



Idling Reduction Technologies



- Auxiliary power units (APU)
- Fuel-operated heaters
- Appropriate for
 - school buses
 - firetrucks
 - police cruisers
- Reduced fuel usage and maintenance costs

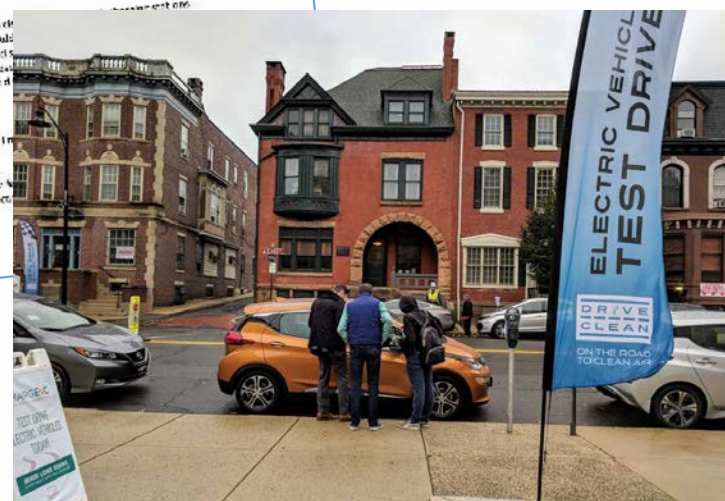
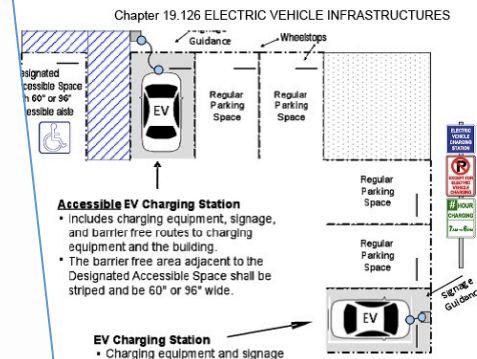
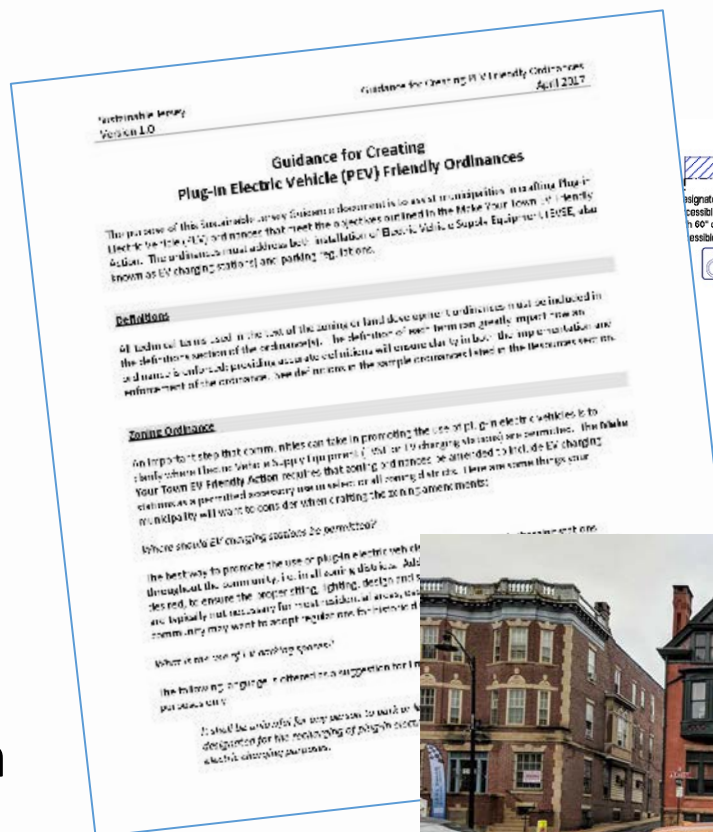


Idling Reduction Technologies in Woodbridge Firetruck

Image Source: Woodbridge

Promoting EVs

- Update municipal zoning ordinances and parking policies
- Staff training for permitting, zoning, code officials, first responders
- Community educational outreach or incentive programs

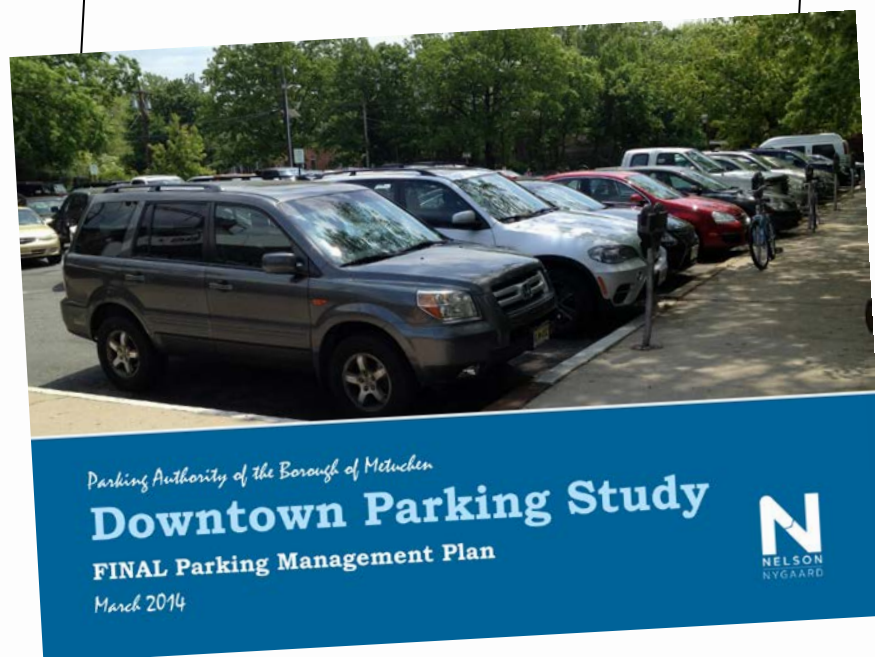


Trenton EV Ride & Drive

<https://insideevs.com/news/340335/massive-ev-charging-initiative-in-new-jersey-takes-big-step-forward/>

Parking Management

- Adopt or revise parking policies and/or code provisions in a way that
 - uses existing parking more efficiently
 - reduces future parking demand
 - enhances walkability
- Fund a study





Micro-mobility Sharing Programs



- Active transportation boosts health & wellbeing
- Total cost of use is far less than private automobiles
- Important considerations
 - partnerships
 - accessibility
 - safety
- Municipal roles
 - regulations
 - education on proper use
 - infrastructure upgrades



Hudson/Citibike Bike Share

<https://www.hobokennj.gov/news/jersey-city-and-hoboken-seek-public-input-on-bike-share-expansion>

Energy Conservation

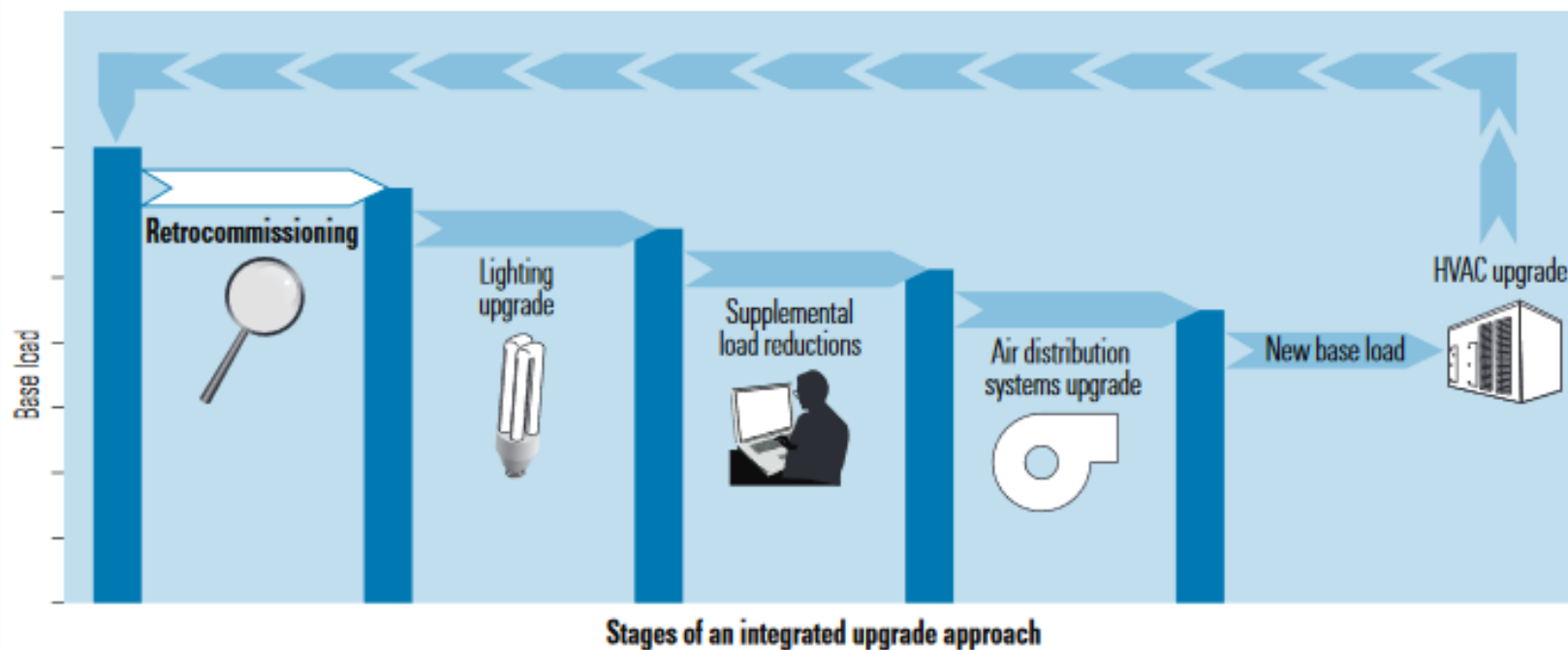
- Staff training
- Behavior-based policies
 - employee commuting incentives
 - *smart workplaces action*
 - HVAC policies
- Energy conservation campaign
 - brochures, flyers, email blasts
 - school assembly presentations
 - holiday shut-down policy
 - *green purchasing actions*



Winslow Middle School



Building Energy Efficiency



https://www.energystar.gov/sites/default/files/buildings/tools/EPA BUM_CH5_RetroComm.pdf



Retrocommissioning



- A “tune-up” for existing building systems
 - HVAC
 - boiler system settings
- Improves indoor air quality, comfort, cost savings
- Changes in occupancy & use can change equipment demands
- 5% to 30% energy savings

Average Simple Payback of Measures in Years

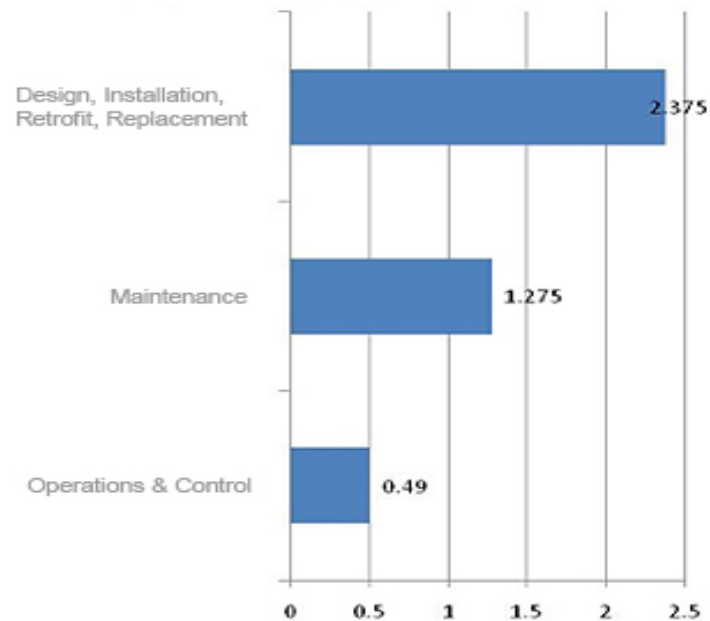


Figure Data Source: Mills, E., 2009. "Building Commissioning: A Golden Opportunity for Reducing Energy Costs and Greenhouse Gas Emissions"



Energy Efficiency for Facilities



- Sliding scale of points
- 5-50 points
- Audits and upgrades
- Based on energy savings demonstrated
- Tailored to NJCEP incentives



Municipal buildings



Schools



Steam Traps



- Valves in steam heating systems allow air and water to escape
- ~20% of steam leaving boiler plant lost due to leaking steam traps
- Uncomfortably hot/cold buildings



Steam Trap Survey, Repair and Maintenance Program

Eligible entities:
Schools, municipalities, hospitals

elizabethtowngas.com/business/energy-savings



[/www.energy.gov/sites/prod/files/2013/11/f4/webinar_steamtrap_2010_0605_0.pdf](http://www.energy.gov/sites/prod/files/2013/11/f4/webinar_steamtrap_2010_0605_0.pdf)



Historic Buildings



- Older buildings built to last!
- Buildings older than 1920 are MORE efficient
- Built without modern heating and cooling
- Energy savings designs such as deep eaves, cross ventilation
- South-facing for solar gain
- Old growth wood
- Requires specific expertise for energy efficiency retrofit



G.G. Green Senior Residences Revitalize Historic Building

https://www.huduser.gov/portal/casestudies/study_02192015_1.html



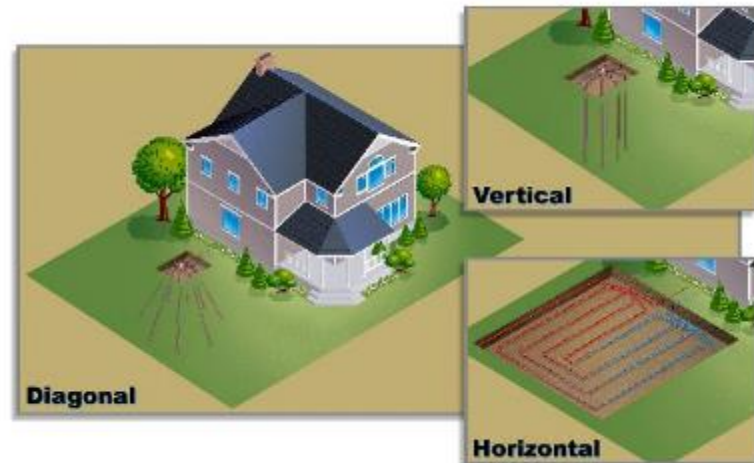
<https://www.nps.gov/tps/standards/rehabilitation/sustainability-guidelines.pdf>

Building Electrification

- Ground source
 - *municipal geothermal energy system action*
 - Air-source
 - Ductless Mini-Split
 - Water heater
 - Induction stoves
- * Must pair with NJCEP incentives



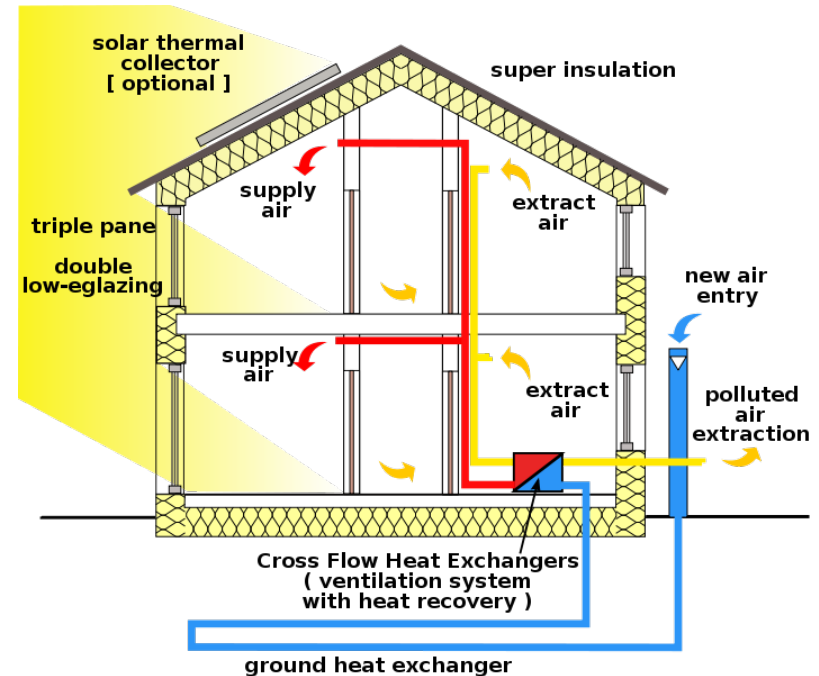
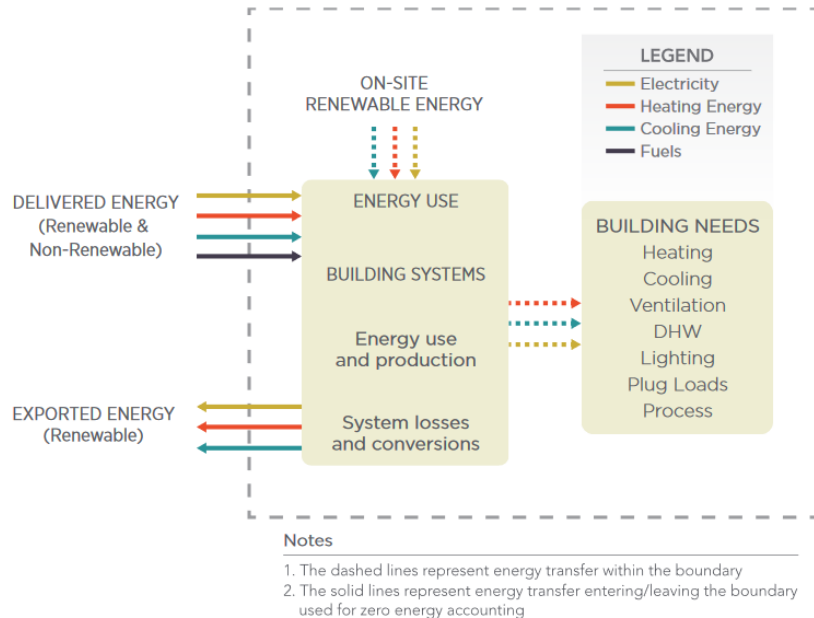
<https://commons.wikimedia.org/w/index.php?curid=838369>



<https://commons.wikimedia.org/w/index.php?curid=53250131>

Zero Energy Buildings Passive House

Figure 1 - Site Boundary of Energy Transfer for Zero Energy Accounting



Zero Energy Diagram

https://www.energy.gov/sites/prod/files/2015/09/f26/bto_common_definition_zero_energy_buildings_093015.pdf

Passive House Design Diagram

https://commons.wikimedia.org/wiki/File:Passive_house_scheme_1.svg



Westview Commons



- 100% affordable 55+ building with 64 units
- Located in Westville, NJ
- Developed by RPM Development Group
- First zero energy and Passive House multifamily building in the state
- Solar will offset electricity
- \$250,000 in NJCEP incentives



Westview Commons
Google Streetview

Green Roofs

- Reduce energy costs
- Increase building comfort
- Reduce urban heat island effect
- Enhance stormwater management
- *Green Infrastructure Implementation action*

Figure 4: Temperature Differences between a Green and Conventional Roof



On a typical day, the Chicago City Hall green roof measures almost 80°F (40°C) cooler than the neighboring conventional roof.

www.epa.gov/sites/production/files/2017-05/documents/reducing_urban_heat_islands_ch_3.pdf



Moorestown Municipal Complex



Wastewater Treatment



Common Energy Efficiency Equipment Upgrades Water Treatment Facilities

Variable Pump Sizes

- Different pump sizes to handle higher & lower flow rates ensures pumps are not overworking and wasting energy

Variable Frequency Drives (VFDs)

- VFDs adjust pump motor power supply to ensure peak efficiency
- Useful when flow rates vary significantly

Aeration Equipment

- Aeration systems typically account for half of wastewater plant energy use
- Upgrade to energy efficient blowers and diffusers



Wastewater Treatment



- Energy conservation
 - LEED construction
- Energy generation
 - Solar
 - Biomass (closed loop)



Canoe Brook Reservoir Floating Solar Installation

<https://cdn.njib.gov/njeit/annualreports/annualreport2012.pdf>



Bernards Township Sewerage Authority

http://www.bernards.org/Departments_Services/Sewerage_Authority/

Solar Thermal

- Use solar energy to heat water
- Can be used in
 - city hall
 - fire stations
 - rec centers
 - senior centers
 - schools
 - multifamily
- Manchester Township's Police Department
 - Provides hot water for
 - 5 showers
 - 16 sinks



Manchester, NJ solar thermal installation



Solar PV + Storage



- Provides power when grid is down
- Can reduce electricity costs by charging battery on off-peak hours
- Can help defer grid upgrades

Hopewell Valley Central High



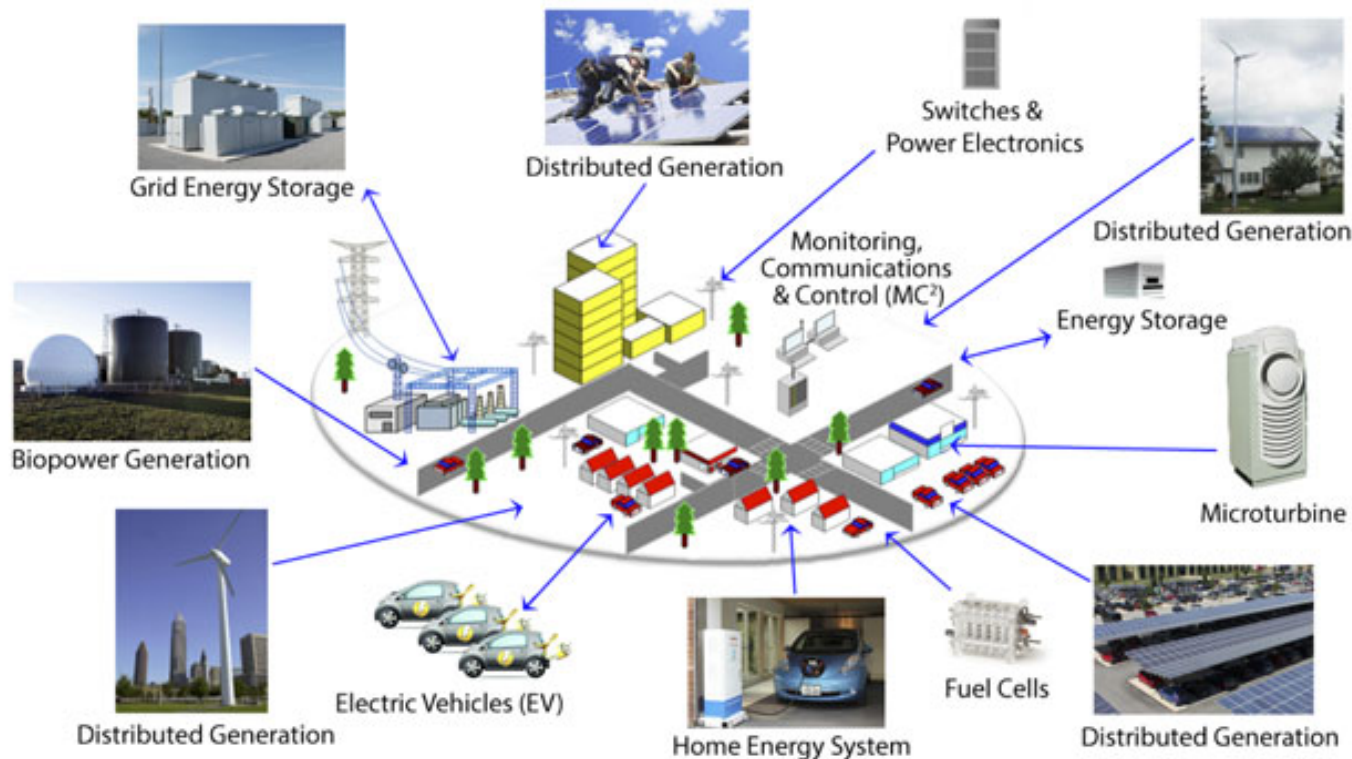
twitter.com/psegnews/status/716052526446022660



One-megawatt (MW) renewable energy storage battery is located at ACUA's Wastewater Treatment Facility.

www.acua.com/green-initiatives/renewable-energy/battery/

Microgrids



<https://www.nyseda.ny.gov/All-Programs/Programs/NY-Prize/Resources-for-applicants/Microgrids-101>

Image Courtesy of [Clean Coalition](#)

NJCEP 2017 Microgrid Feasibility Studies

njcleanenergy.com/commercial-industrial/programs/der-microgrid-feasibility-studies

NJ Community Microgrids Planning Academy: www.microgrids.io

District Energy

- Heating and/or cooling energy
 - Generated at central plant
 - Distributed via underground pipes
- Most effective for buildings close together
 - downtown districts
- NJ examples
 - Trenton – Veolia District Energy
 - Atlantic City – Midtown Thermal Control Center

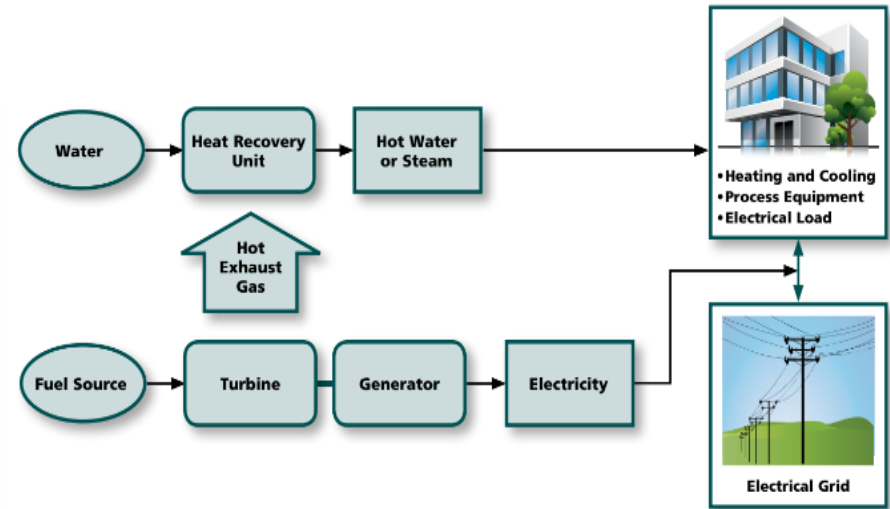


CHP turbine for St. Paul, MN district energy system

<https://mn.gov/admin/government/sustainability/blog/?id=36-319427>

Combined Heat and Power

- Uses waste heat to generate electricity onsite
- Highly efficient
- Best for entities with large energy loads



CHP Diagram

<https://www.renewableenergyhub.co.uk>

NJCEP incentives

<http://www.njcleanenergy.com/chp>

- Based on the size of the system

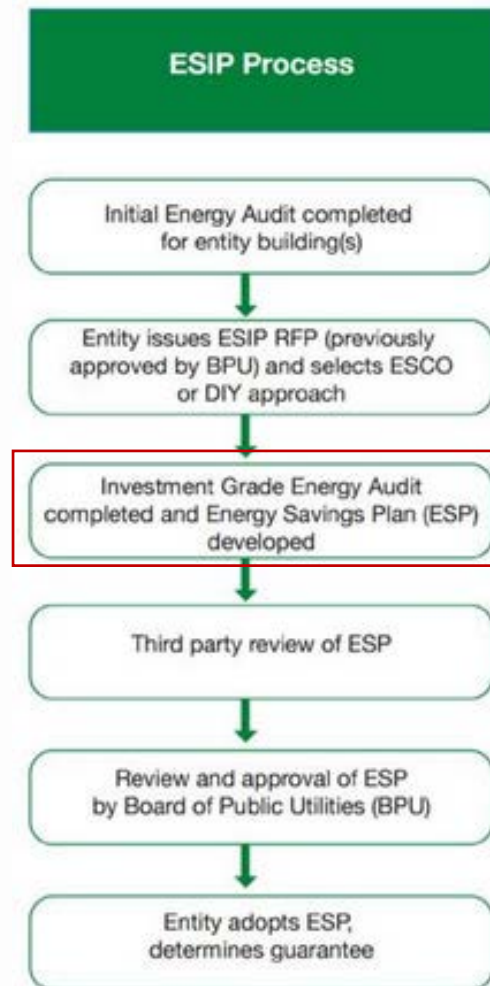
Micro-CHP System

<https://www.nist.gov/laboratories/tools-instruments/micro-combined-heat-and-power-device-test-facility>



Studies and Plans

- Investment Grade Audits for ESIPs
- Solar + Battery Feasibility Study
- Microgrid Feasibility Studies
- Alternative Fuel Vehicle Readiness Planning
- Parking Studies





Sustainable Jersey Grants Program for Energy Projects Funded by the Gardinier Environmental Fund

2020-2021 Municipality and School District
Grant Application Package

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Application

- The [application information packet](#) can be downloaded from the Grants and Resources Page of the **Sustainable Jersey or Sustainable Jersey for Schools** website
- Encourage you to read the packet and send it to your project/green team to review before starting an application



Application Sections



Eligibility Screening	
1. Sustainable Jersey/Sustainable Jersey for Schools Registration	3. Previous Grant Recipient Rules
2. Green Team Requirements	
Applicant Information	
Application Contacts	
Proposed Project	
1. Project Title & Description	4. Project Impact and Evaluation
2. Project Team Members	5. Action Plan and Timeline
3. Community Engagement	6. Budget Narrative and Detailed Budget
Attachments	
1. Green Team Documentation*	3. Confirmation of Eligibility for Incentives
2. Grant authorization	4. Optional Information

***Not required from Sustainable Jersey/Sustainable Jersey for Schools **certified** municipality or schools or districts with certified schools**



Online Application



2020-2021 Grants Program for Energy Projects

Funded by:



**\$10,000 and \$20,000 Online Application
Form**

For more information about this technical assistance
program, click [here](#) for the Application Information
Packet.

LOGIN

Email

Password

[Forgot Password?](#)

SIGNUP

Email

Password

Confirm Password

POWERED BY
wizehive

Online Application
Deadline: Friday,
October 30 at 11:59pm

The online application is available here:
<http://bit.ly/2020SJEnergyGrants>



Grant Application Tips



- Visit the website [here](#)

[ABOUT](#)[NEWS](#)[SUPPORT US](#)[CONTACT US](#)[HOME](#)[Register](#)[Sign in](#)[Certification](#)[Actions](#)[Grants](#)[Events](#)[Resources](#)[Get Involved](#)

> Gardinier Energy Cycle

✓ Thinking about Applying for Grants?

Eligibility

Use of Funding

Application Tips

Required

Documentation

Application Tips

You do not need to be an experienced grant writer to craft a successful grant application. The first step is to select a project that addresses a specific need or will enhance the community's sustainability efforts. The second step is to clearly communicate the project and its potential impact on the community in the grant application. The typical components of a Sustainable Jersey grant application are listed below. Review and follow the guidance provided and you are sure to increase your odds of being awarded a grant.

- [Project Description](#)
- [Project Team Members](#)
- [Action Plan & Timeline](#)
- [Community Engagement](#)
- [Project Impact](#)
- [Budget](#)



Community Engagement



- **Press Event:** Park Ridge hosts an EV Ride and Drive event at the annual car show and educated 4th graders on EV's

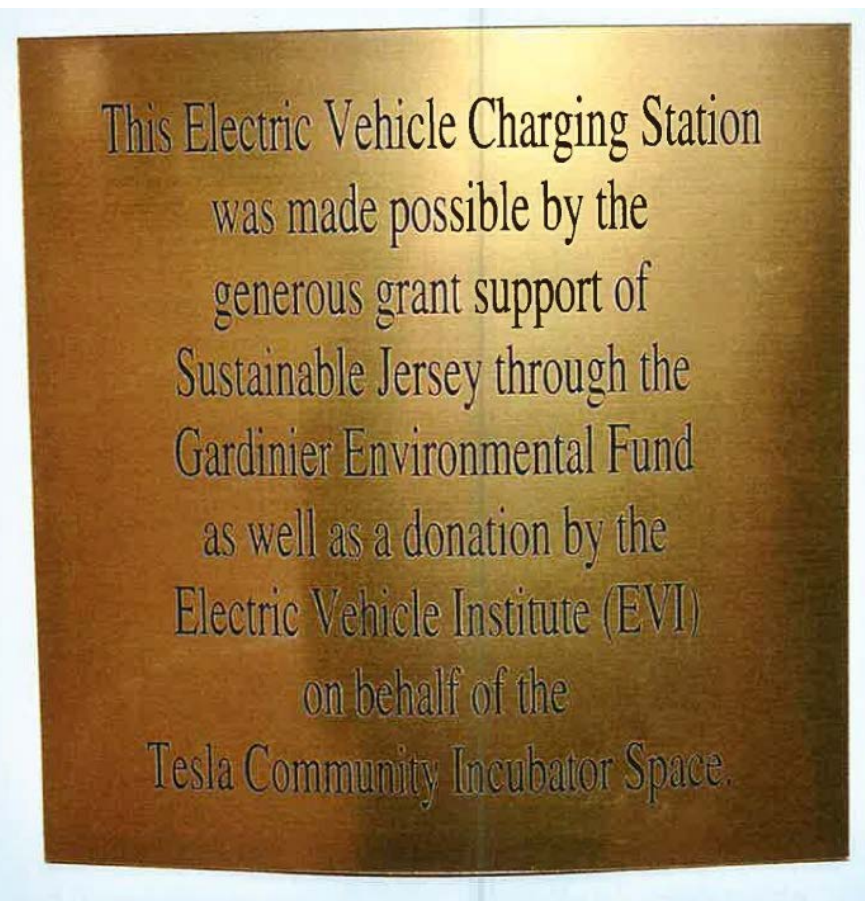
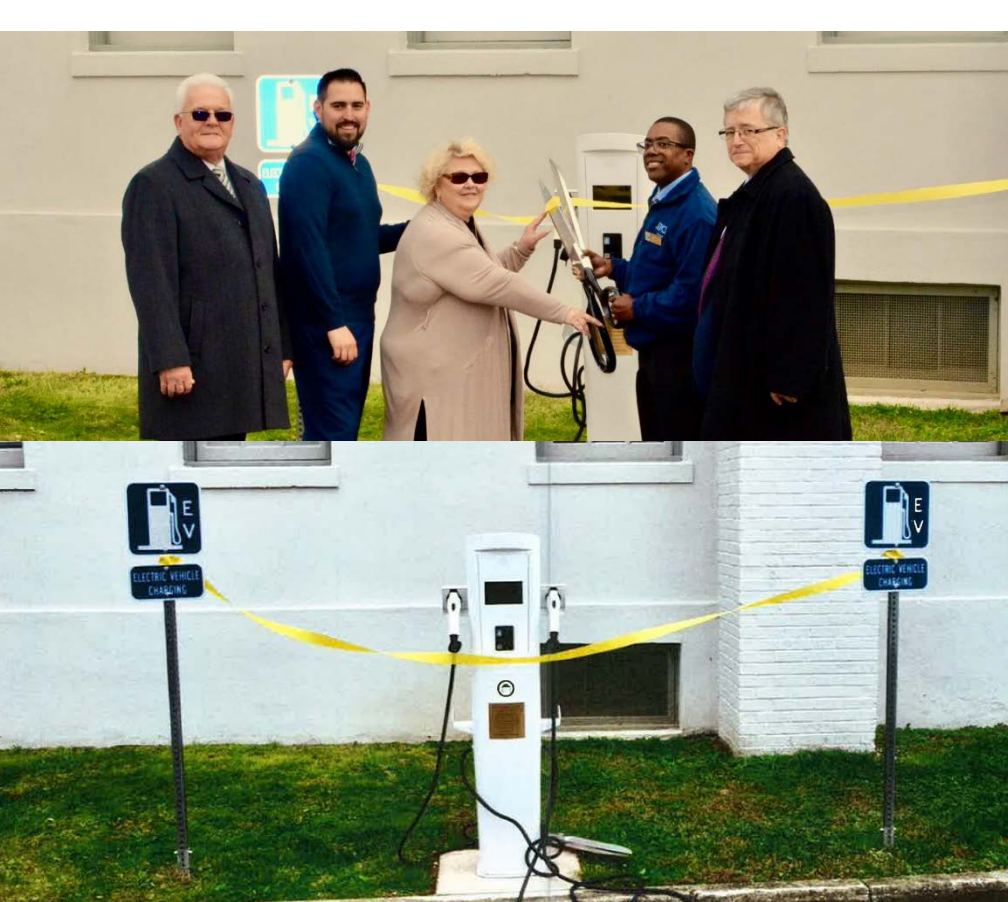




Community Engagement



- **Ribbon Cutting Ceremony:** Burlington City unveils new EV charging station





Community Engagement



- **Grant Signage:** Morristown unveils new solar pavilion at the community garden funded by a 2015 SJ energy grant of \$35k





Community Engagement



- **Other ways to engage the community and promote the grant:**
Post on social media about the project, add sponsor signage, host a town meeting to get feedback from the community, put out a survey, have an outreach component, use volunteers, etc.



ACKNOWLEDGEMENTS

Funding for this project was provided by the Sustainable Jersey Grants Program and the Gardiner Environmental Fund.

This report was produced by the Jersey City's Office of Sustainability and Montclair State University's PSEG Institute for Sustainability Studies in coordination with the Jersey City Environmental Commission (also known as the Jersey City Green Team).

Thank you to the following people and organizations for their contributions to this report:

ICLEI-Local Governments for Sustainability USA
Kale Roberts, Senior Program Officer

Jersey City Staff
Katherine Lawrence, Director, Office of Sustainability
Carolina Ramos, Sustainability Program Manager, Office of Sustainability
Lindsey Sigmund, Environmental Planner, Division of Planning

Jersey City Environmental Commission
Alison Cucco, Chair

Montclair State University's PSEG Institute for Sustainability Studies
Amy Tuinaga, Director
Rohan Padhye, Assistant Director
Dawn Truitt, Program Coordinator
Summer 2018 Green Team Interns
Scott Lovrich, Research Assistant
Nicholas Araya, Research Assistant
Evan Cohen, Research Assistant
Ariana Leyton, Research Assistant
Ralph Olecio, Sustainability Research Assistant

GHG Emissions Data Contributors
Public Service Electric and Gas Company (PSE&G), North Jersey Planning Authority (NJTPA), New Jersey Board of Public Utilities (NJBP/PU), Hudson County Improvement Authority (HCIA), and Jersey City Municipal Utilities Authority (JCMUA)

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Jennifer Brown, Skyline, 2017.

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Grant Awards



Grant recipients will be announced:

Mid-January 2021

Fifty percent (50%) of the grant funds will be disbursed at the beginning of the grant period.

The remainder will be transmitted upon completion of the grant funded activities and acceptance of the recipient's final report.



Contact Information



Hogan Dwyer
Research and Project Specialist
dwyerh@tcnj.edu
(609) 771 - 2948



Zenon Tech-Czarny
Research and Project Specialist
czarnyz@tcnj.edu
(609) 771 - 2549



Kaitlyn Vollmer
Grants Program Coordinator
grants@sustainablejersey.com
(609) 771 - 3189