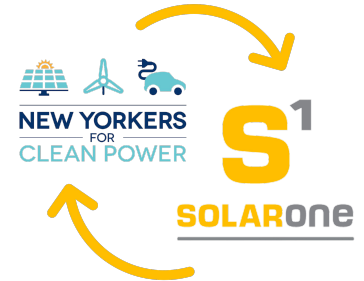


Working for Change

Green Jobs to Fight Climate Change

- **Melissa Iachetta** (She/Her), Program Manager, NYCP
- **Cal Trumann** (They/Them), Education & Careers Coordinator, NYCP



NYCP Advocacy & Organizing in New York: Our Mission

- To help New Yorkers Transition to a cleaner, greener economy as quickly and fairly as possible.
- To advance solar, wind, energy efficiency, clean transportation, and building electrification.
- To advocate for and support good jobs in these industries for all communities in New York.



Ice Breaker

Let's do a class temperature check!

- The **left** side of the room represents: Yes
- The **right** side of the room represents: No

Answer these questions by positioning yourself on the respective side of the room.



Intro to Climate Change

- **Greenhouse gas emissions:** Sometimes shortened to "greenhouse gases" or "carbon emissions." **Greenhouse gases** are carbon dioxide, methane, water vapor, and other gases which trap heat in the atmosphere and prevent it from drifting back into space. **Emissions** refers to those gases being released into the atmosphere.
- **Net zero:** Releasing no more greenhouse gases than are being **sequestered**, or stored.
- **Renewable energy:** Energy collected from sources which **naturally replenish** on a human timescale. Includes solar (sun), wind, and hydro (water) power.
- **Electric grid:** The power lines and other equipment used to supply and **move electricity** around a place.



Intro to Climate Change



What happens to the planet (and to us!)
when we dig up and burn fossil fuels?



Intro to Climate Change

HARVARD T.H. CHAN | **C-CHANGE**
SCHOOL OF PUBLIC HEALTH | CENTER FOR CLIMATE, HEALTH,
AND THE GLOBAL ENVIRONMENT

Fossil fuel air pollution responsible for 5 deaths worldwide

02/09/2021 | Environmental Research



Feb 10, 2021 | Blog Posts, Research, Shared Prosperity, Strategic Communication

NEW REPORT: NATURAL GAS ECONOMIES SUFFERED AS PRODUCTION BOOMED

Since the start of the fracking boom, Ohio, Pennsylvania, and West Virginia producing counties have seen declines in their share of jobs, income



EPA United States
Environmental Protection
Agency

Environmental Topics

Laws & Regulations

About EPA

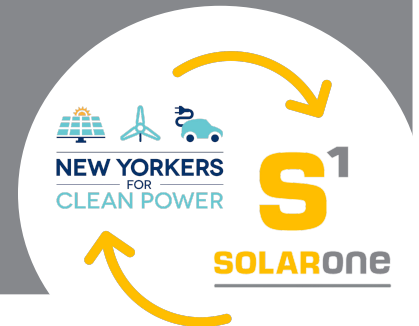
Nutrient Pollution

The Sources and Solutions: Fossil Fuels



Before we dive into New York State:

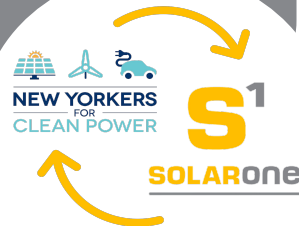
- What is something you're **concerned** about related to climate change?
- What is something that brings you **hope** for the future?



New York's plan is the CLCPA, or Climate Act

Passed in 2019, the Climate Act commits New York to:

- Achieve **net-zero emissions** by 2050.
- Achieve a **fossil fuel-free grid** by 2040.
- Ensure a **just transition**, including dedicating funds to Disadvantaged Communities.



How will we meet these goals?

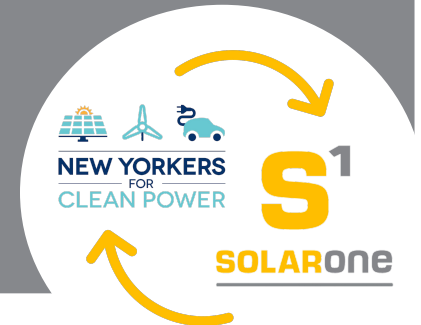
Green Jobs and Workforce Development in NYS

- We will need over **200,000** new clean energy jobs **by 2030**
- A **54% increase** by 2050



Sustainability Careers

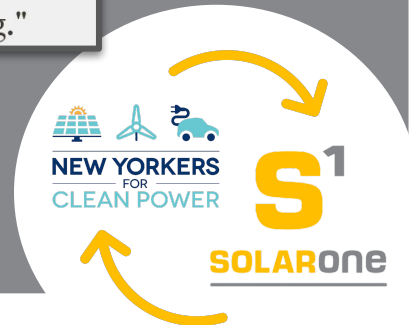
Artist
Activist
Designer
Educator
Engineer
Farmer or Urban Farmer
Government Agency Worker
Journalist
Policymaker
Public Health Worker
Scientist
Sustainability Coordinator
Urban Planner



Sustainability Careers

To get off fossil fuels, America is going to need a lot more electricians

A shortage of skilled labor could derail efforts to "electrify everything."



Grist, Jan 11, 2023

Spotlight on Solar Careers: Solar Installers

Solar photovoltaic (PV) installers assemble, set up, and maintain rooftop or other systems that convert sunlight into energy.

Average salary- \$50k or more (typically higher in cities)

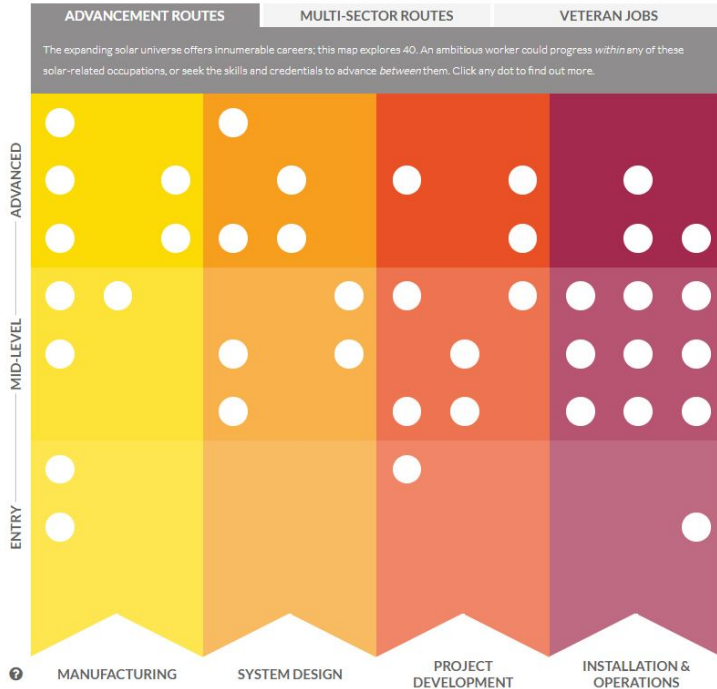
Work environment- outdoors on rooftops, may require heavy lifting

Pathways- Entry-level installers typically have a high-school degree and construction experience; Installers typically receive on-the-job training lasting up to 1 year. NABCEP- International solar industry certification is a plus.



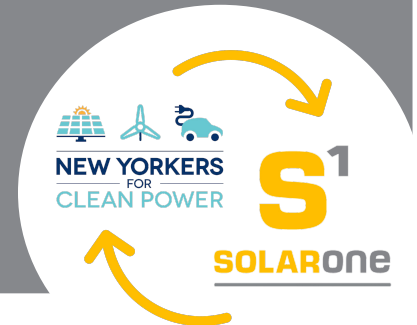
#1 fastest growing job in the US!

Solar Career Map



Check out this resource to learn about different options in the solar industry:

<http://irecsolarcareermap.org>



Spotlight on Green Building Careers: Energy Auditor

Energy auditors conduct energy audits of process systems, buildings, and building systems. Energy audits generally include an analysis of test results and recommendations for energy cost savings.

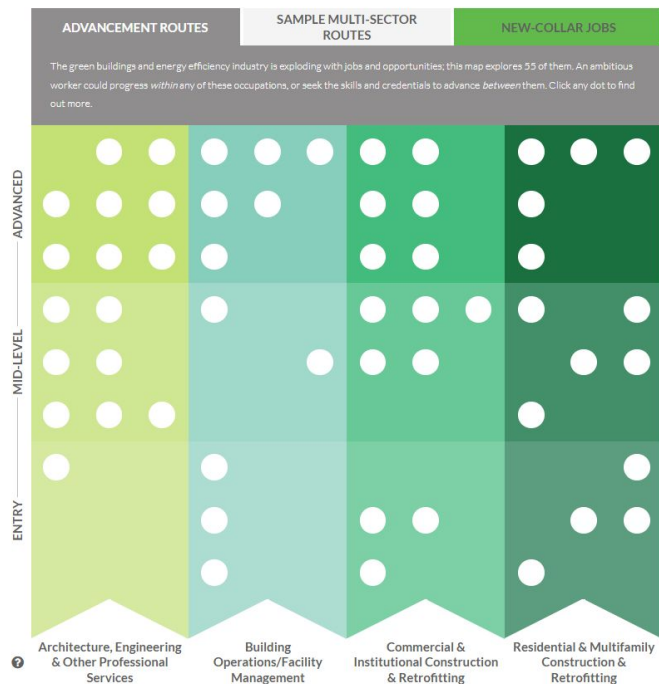
Average salary- \$43K-\$106K

Work environment- walkthroughs of buildings and computer work such as modelling software and data entry.

Pathways- RESNET HERS Rater Certification, BPI-Building Analyst or Energy Auditor Certifications

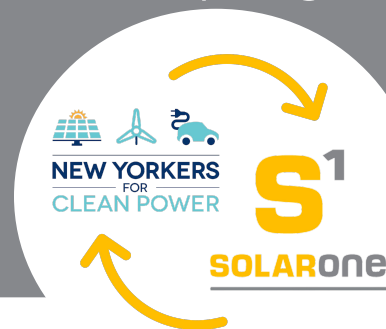


Green Building Career Map



Check out this resource to learn about different options in the green building industry:

<https://greenbuildingscareemap.org>



Spotlight on Wind Energy Careers: Wind Turbine Tech

Inspect turbines and provide regular maintenance. Wind techs are capable of diagnosing and fixing any problem.

Average salary- \$100K+ (there is a shortage of wind techs)

Work environment- often outdoors, require climbing hundreds of feet to fix turbines.

Pathways to enter field- experience or training as an electrician is helpful. These programs offer 1-2 year certificates and college courses:

Farmingdale State College- NY's Offshore Wind Technical Training Program

SUNY Maritime College- Center of Excellence for Offshore Energy

Suffolk County Community College- Offshore Wind Training

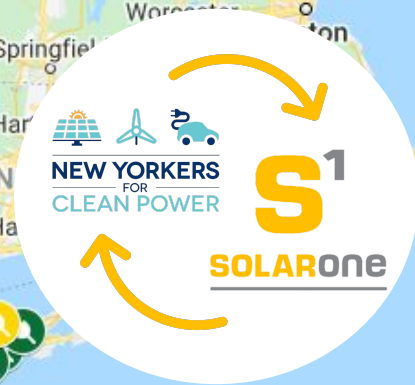


#3 fastest growing job in the US!

Green Job Map

- Clean Energy
- Environmental Consulting
- Environmental Monitoring/Remediation
- Construction & Landscaping
- HVAC
- Environmental Employment & Training Services
- Ecological Services
- Energy Efficiency
- Environmental Nonprofit
- Waste Management
- Agriculture
- Manufacturing
- Water Services
- Sustainable Real Estate Development
- Environmental Engineering
- Clean Energy - Entry Level
- Energy Efficiency - Entry Level
- Environmental Nonprofit - Entry Level
- Manufacturing - Entry Level
- Other / No data

NYforCleanPower.org/Clean-Jobs-NY

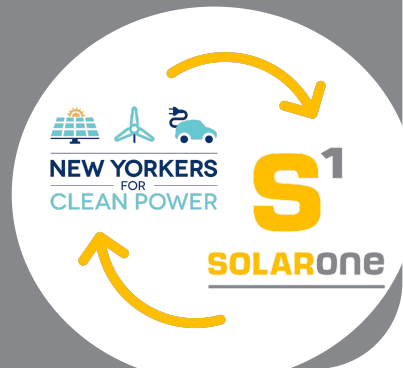


Green Jobs Continued



An ongoing Clean Energy Internship Opportunity through NYSERDA that you can start while in HS:

- Internship through NYSERDA
 - <https://www.nyserdera.ny.gov/All-Programs/Clean-Energy-Internship-Program>
- Participating Businesses



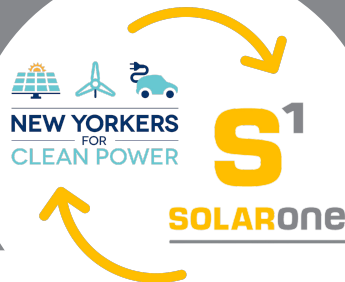
Other NYCP Resources:

Our Youth Page!



YOUTH POWER FOR CLEAN POWER!

Are you a student or young adult concerned about the climate crisis and looking to get involved with the transition to a clean, fossil-fuel-free economy? Whether you are a college student, a recent graduate, or a K-12 student, we have resources for you! If you're 13 or older, [click here](#) to subscribe to our newsletters and stay in the loop about Clean Power initiatives relevant to you. If you're under 18, we recommend double-checking with a parent or guardian before sharing your info. Also check our new Clean Power Success Story, "Fighting Climate Change at Any Age... a Look Into Youth Activism"!



Take action with NYCP on the Climate Action Now App!



GOOGLE PLAY
STORE



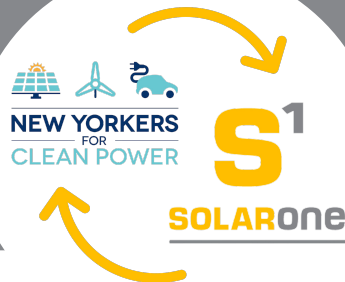
APPLE APP
STORE

Use Affiliate Code **293**

Learn More at:
climateactionnow.com



Other NYCP Resources: Climate Action Now App



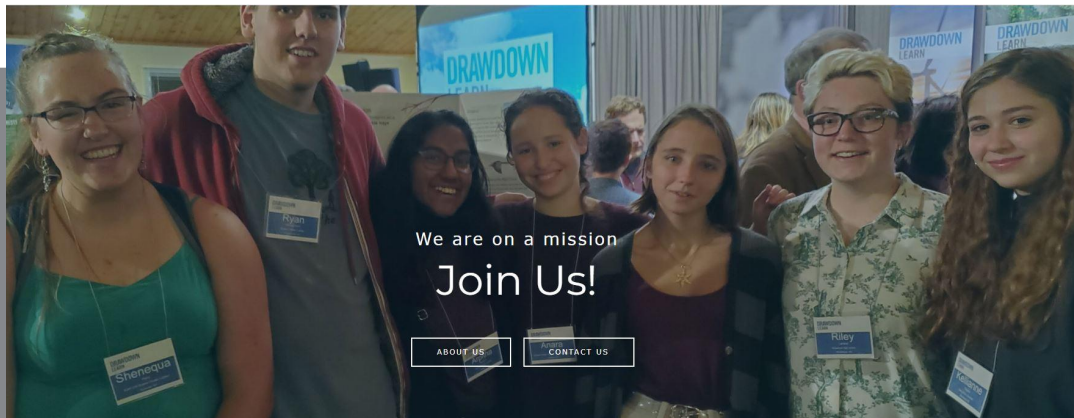
Join the Student Climate Coalition!



learn more:



Other NYCP Resources: The Student Climate Coalition



We are on a mission

Join Us!

ABOUT US

CONTACT US

<https://studentclimatecoalition.org/>



S¹

SOLARone

Thank You!

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cal@nyforcleanpower.org



@NYforCleanPower
@SolarOneGreenDesignLab



Nyforcleanpower.org
Solar1.org

Questions?

