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Solar at StuyTown

StuyTown has rooftops. A lot of rooftops. And we had an idea to utilize them more effectively through the installation of 9,671 solar panels over our 22 acres of rooftops. Project Solar will result in the largest private multi-family rooftop solar array in the United States.





StuyTown Project Solar

from StuyTown



StuyTown Property Services (SPS), the manager of Manhattan's largest private multifamily residential property, will install a 3.8 megawatt (MW) solar energy system across the 22 acres of rooftops of Stuyvesant Town and Peter Cooper Village. The 80-acre complex with 110 unique building addresses on the east side of Manhattan is home to more than 27,000 New Yorkers and represents 1.7% of the population of Manhattan. The project is underway with the first two phases of work complete.

StuyTown's 9,671 panel array will be the largest private multi-family rooftop solar array in the United States. This will approximately double Manhattan's current solar generating capacity. Once complete in 2019, the installation will generate 6% of the total energy consumed by StuyTown's 110 residential addresses, or enough energy to power 1,035 typical New York apartments each year. This is equivalent to removing 11,972 cars from the road and reducing carbon dioxide emissions by 62,472 tons. A series of environmental sustainability initiatives have already reduced StuyTown's on-site greenhouse gas emissions by 10% since 2007.

The solar installation is a redoubling of StuyTown's commitment to the NYC Carbon Challenge, which supports New York City's goal to reduce carbon emissions 80% by the year 2050. StuyTown is a leader in multi-family sustainability and is now expanding its program into



STUYTOWN PROJECT SOLAR

By 2019 StuyTown will have the **largest private multi-family residential solar array** in the country. StuyTown has been a longstanding green partner to the city and, since 2007, has reduced on-site carbon emissions by **10%**.

The estimated production of **4,347,632 kWh** of electricity is enough to power **1,035 NYC apartments** every year.¹

Once finished, StuyTown will have **doubled** the solar capacity in Manhattan.

9,671 high efficiency solar panels will be installed by 2019.

Solar panels will cover **22 acres** of rooftops, which is more than **16 football fields**.

The amount of carbon dioxide emissions this installation will offset is equivalent to planting **1,468,755 tree seedlings** and letting them grow for ten years.³

The installation will offset the equivalent of **62,472 tons** of carbon dioxide emissions.² That's like removing almost **500 cars** from the road each year.³

1. US Energy Information Administration, https://www.eia.gov/energyexplained/energy_efficiency/energy_efficiency.php#sales, Accessed May 20, 2018. Edison residential customer consumed 4,977 kilowatt hours per year including Westchester County Edison's service area. The average household energy consumption is approximately 4,200 kilowatt hours per year.

2. United States Energy Information Administration, https://www.eia.gov/energyexplained/energy_efficiency/energy_efficiency.php#sales, Accessed May 20, 2018.

3. May 20, 2018. The environmental benefit of solar production was calculated based on the CO2 emissions of electricity produced with natural gas (1.22 lbs./kWh), the primary fuel source for electricity generation in the NYC metro area. United States Environmental Protection Agency Greenhouse Gas Equivalencies Calculator, <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>, Accessed May 20, 2018.

