

Tree Data

Year	Lbs CO2 sequestered/ tree/year	# of trees being removed	CO2 sequestered / year (potential)**
1	50	31	1550
2	50	31	1550
3	50	31	1550
4	50	31	1550
5	50	31	1550
6	50	31	1550
7	50	31	1550
8	50	31	1550
9	50	31	1550
10	50	31	1550
11	50	31	1550
12	50	31	1550
13	50	31	1550
14	50	31	1550
15	50	31	1550
16	50	31	1550
17	50	31	1550
18	50	31	1550
19	50	31	1550
20	50	31	1550
21	50	31	1550
22	50	31	1550
23	50	31	1550
24	50	31	1550
25	50	31	1550

**Total lbs CO2 sequestered 38750**

Solar System

Solar system kWh produced/ year	lbs CO2/ kWh*
6,399,766.00	0.5964
6396566.117	0.5964
6393367.834	0.5964
6390171.15	0.5964
6386976.064	0.5964
6383782.576	0.5964
6380590.685	0.5964
6377400.39	0.5964
6374211.69	0.5964
6371024.584	0.5964
6367839.071	0.5964
6364655.152	0.5964
6361472.824	0.5964
6358292.088	0.5964
6355112.942	0.5964
6351935.385	0.5964
6348759.418	0.5964
6345585.038	0.5964
6342412.245	0.5964
6339241.039	0.5964
6336071.419	0.5964
6332903.383	0.5964
6329736.931	0.5964
6326572.063	0.5964
6323408.777	0.5964

**Total CO2 offset**

Data

lbs CO2 offset/year by solar
3816820.442
3814912.032
3813004.576
3811098.074
3809192.525
3807287.929
3805384.285
3803481.592
3801579.852
3799679.062
3797779.222
3795880.333
3793982.392
3792085.401
3790189.359
3788294.264
3786400.117
3784506.917
3782614.663
3780723.356
3778832.994
3776943.578
3775055.106
3773167.578
3771280.995

**94850176.64**

2447.746494

Assumptions/ Sources

\*<https://www.epa.gov/egrid/power-profiler#/NYC> assumption

\*\* Mix of hardwood/ coniferous tree data for matu <https://www3.epa.gov/climatechange/Downloads/carbon-sequestration-trees-urban-and-suburban-se> does not account for tree growth, but is already a g the current size of trees on site

Does not account for potential changing mix of ene grid over next 25 years

The proposed solar system will offset 2447 times more carbon than the trees removed would sequester over 25 years.

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## Power Profiler

How clean is the electricity you use?

Electricity is produced by many different sources of energy, including, but not limited to, wind, solar, nuclear, and fossil fuels. The type and amount of emissions produced depend on how electricity is generated in your region. Type in your zip code (or select a region) to view your power profile. [More info](#)

### Power Profiler

Enter zip code:

### NYCW Emission Rates



[Back to All Subregions](#)

### Fuel Mix

This chart compares fuel mix (%) of sources used to generate electricity in the selected [eGRID subregion](#) to the national fuel mix (%).

### Emission Rates

This chart compares the average emission rates (lbs/MWh) in the selected [eGRID subregion](#) to the national average emission rates (lbs/MWh) for [carbon dioxide \(CO<sub>2</sub>\)](#), [sulfur dioxide \(SO<sub>2</sub>\)](#), and [nitrogen oxide \(NO<sub>x</sub>\)](#).