

## 2024 New York State Energy Conservation Code Energy Analysis Summary

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***The proposed 2024 New York State Energy Conservation Code provides energy savings.***

Moving to the proposed 2024 New York State Energy Conservation Code (2024 NYSECCC) is cost-effective for both Residential and Commercial buildings in New York State and will provide statewide site energy savings of 18.6% compared to the current 2020 Energy Conservation Code of New York State (2020 ECCCNY). The 2024 NYSECCC will provide statewide site energy savings of 19.5% for commercial buildings and 17.0% for residential buildings compared to the current 2020 New York State Energy Conservation Construction Code (2020 ECCCNY). Where decarbonization is mandated outside of the Energy Code, both the baseline and proposed conditions are modified. The 2020 New York City Energy Conservation Code and local laws are the baseline in New York City. The average household will save \$594 on annual utility bills. Similarly, commercial buildings will save an average of \$69,371 in annual utility bills. Assuming a three-year code cycle the 2024 NYSECCC will reduce statewide CO<sub>2</sub>e emissions over 30 years by 604,657 metric tons and will save \$176,522,851 statewide in societal effects from the emissions reduction. Adopting the 2024 NYSECCC in New York State is expected to result in buildings that are energy efficient, more affordable to own and operate, and based on current industry standards for health, comfort, and resilience.

The expected statewide energy impact of updating to the 2024 NYSECCC is shown in the table below and is based on metrics established by the New York State Energy Law and NYS Rules and Regulations Part 510 of Title 21, consistent with the U.S. Department of Energy methodology for evaluation of changes to the Energy Code.

Summary of 2024 NYSECCC Impact Compared to 2020 ECCCNY			
2024 NYSECCC Impact	Commercial	Residential*	Total
<i>First Year Statewide Energy</i>			
Electric Savings, MWh	50,190	36,536	86,726
Fossil Fuel Savings, MMBTU	63,421	0	63,421
CO <sub>2</sub> e Emission Savings, Metric Tons	18,150	12,075	30,225
<i>30-Year Cumulative Statewide Energy</i>			
Electric Savings, MWh	4,366,528	3,178,605	7,545,134
Fossil Fuel Savings, MMBTU	5,517,597	0	5,517,597
CO <sub>2</sub> e Emission Savings, Metric Tons	382,868	221,790	604,657
<i>Life-Cycle Benefits</i>			
Incremental Construction Cost, \$/sf	\$(0.01)	\$2.33	\$0.86
Annual Energy Cost Savings, \$/sf	\$0.53	\$0.26	\$0.43
Savings, No Societal Cost \$/sf	\$10.06	\$2.05	\$7.10
Societal Cost Savings \$/sf	\$0.66	\$0.45	\$0.58
Life-Cycle Energy and Societal Cost Savings, \$/sf	\$10.72	\$2.50	\$7.68

\* Three stories or less, as defined in the ECCCNY