10 Ways Energy Code Optimizes Retail Building Savings

Saving energy saves money. America's model energy code—the International Energy Conservation Code—sets out minimum efficiency standards for new construction across the U.S. Based on savings found in the field, here are the 10 biggest financial savings opportunities for retail buildings in the 2018 IECC.

TOTAL CUMULATIVE SAVINGS POTENTIAL



Small retail

\$37,500





Large retail (50,000-200,000 sq. ft.)



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Estimated savings are based on average present value of savings found in a field study of 107 retail buildings averaging 10,000 sq. ft.-25,000 sq. ft. in size in Climate Zones 2A and 5A.

\$81,000

View the 2021 IECC code.

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Design lighting to meet power density requirements. Higher efficiency fixtures and lamps will ensure limits are met. \$0.07-\$0.37 See: IECC 2018 C405.3-4 Install insulation in the building envelope that meets minimum code requirements. \$0.28-\$0.84 See: IECC 2018 C402.2 Provide occupancy and daylight sensors to

turn off interior and exterior lighting when

\$0.07-\$0.72

See: IECC 2018 C405.2

Ensure thermostat controls are programmed to avoid simultaneous heating and cooling, are set back during off-business hours, and adjust start time of HVAC system.

\$0.07-\$1.10

See: IECC 2018 C403.4.1

Have the lighting and mechanical systems in your building commissioned.



See: IECC 2018 C408