





Roseland: Community Potential -Home Energy Upgrades

Chicago families can reduce energy use by more than 50%, curb emissions, and benefit from healthy, safe, and resilient homes and communities. This analysis of community energy potential is part of a city residential home energy upgrade plan for single-family and 2-4 flat homes, developed in partnership with the City of

Chicago. These home types represent nearly 93% of Chicago's over 438,000 residential buildings. This effort complements the Mayor's climate and energy strategy and the City's commitments for stable, affordable, and healthy homes and neighborhoods. For more info: ElevateNP.org/Chicago-Retrofit-Roadmap

Roseland Housing Stock

Chicago's residential building stock has provided homes for generations of families, the majority built prior to 1942. The Roseland community has 12,314 residential buildings, 88% of which are single family. The five home types shown below are a combination of the most prevalent and the highest potential for energy savings.



Single family, Pre-1942 Brick/masonry construction

Frame construction



Single family, 1942-1978 Brick/masonry construction

Upgrade Technical Potential

Single family and 2-4 flat homes in Roseland have significant home energy upgrade potential. The upgrades may include improving the building envelope, swapping gas stoves for electric, and electrifying heating to reduce utility costs while adding cooling in the summer. Solar panels can provide additional cost and carbon savings.

	Annual % Energy Savings	Annual Utility Bill Savings	Annual Carbon Savings	Annual Savings Per Home
Energy efficiency and switch to heat pump for heating and cooling	62%	\$6.2 million	71,000 metric tons	58-63% \$400-800 <i>3-10 metric tons</i>
Energy efficiency and switch to all electric	65%	\$6.7 million	73,000 metric tons	63-66% \$400-900 <i>3-10 metric tons</i>

Energy, bill, and carbon savings for deep home energy upgrades for the above five home types in Roseland.

The community area potential was derived by applying optimized modeled energy upgrade outputs from the National Renewable Energy Laboratory's ResStock[™] tool to the home types and number of homes in each Chicago community area. For example, an iconic Chicago bungalow with radiators has upgrade packages designed and optimized specifically for its home type.

Across Chicago as a whole, these upgrades can achieve over **\$220 million** in annual utility bill savings for Chicago families, and over 2.5 million metric tons of annual carbon savings.

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