City of Roeland Park, KS

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Total emissions

55,117

Metric tons of greenhouse gases

Where do current emissions come from?

- 23% Transportation
- 2% Industrial facilities
- 22% Commercial buildings
- 54% Residential buildings

2019

What would Paris targets mean for the city?

28 per cent reduction

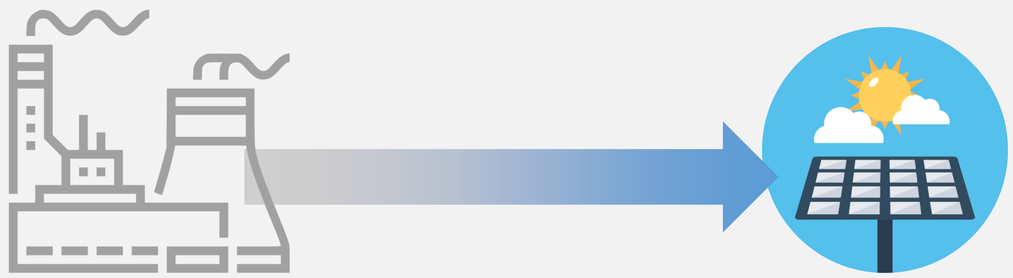
<40,000

Metric tons of greenhouse gases (MT CO_2e) to meet Paris goals

2025

Half of the city's emissions is due to the generation and consumption of electricity by homes, schools, offices and other buildings in the city.

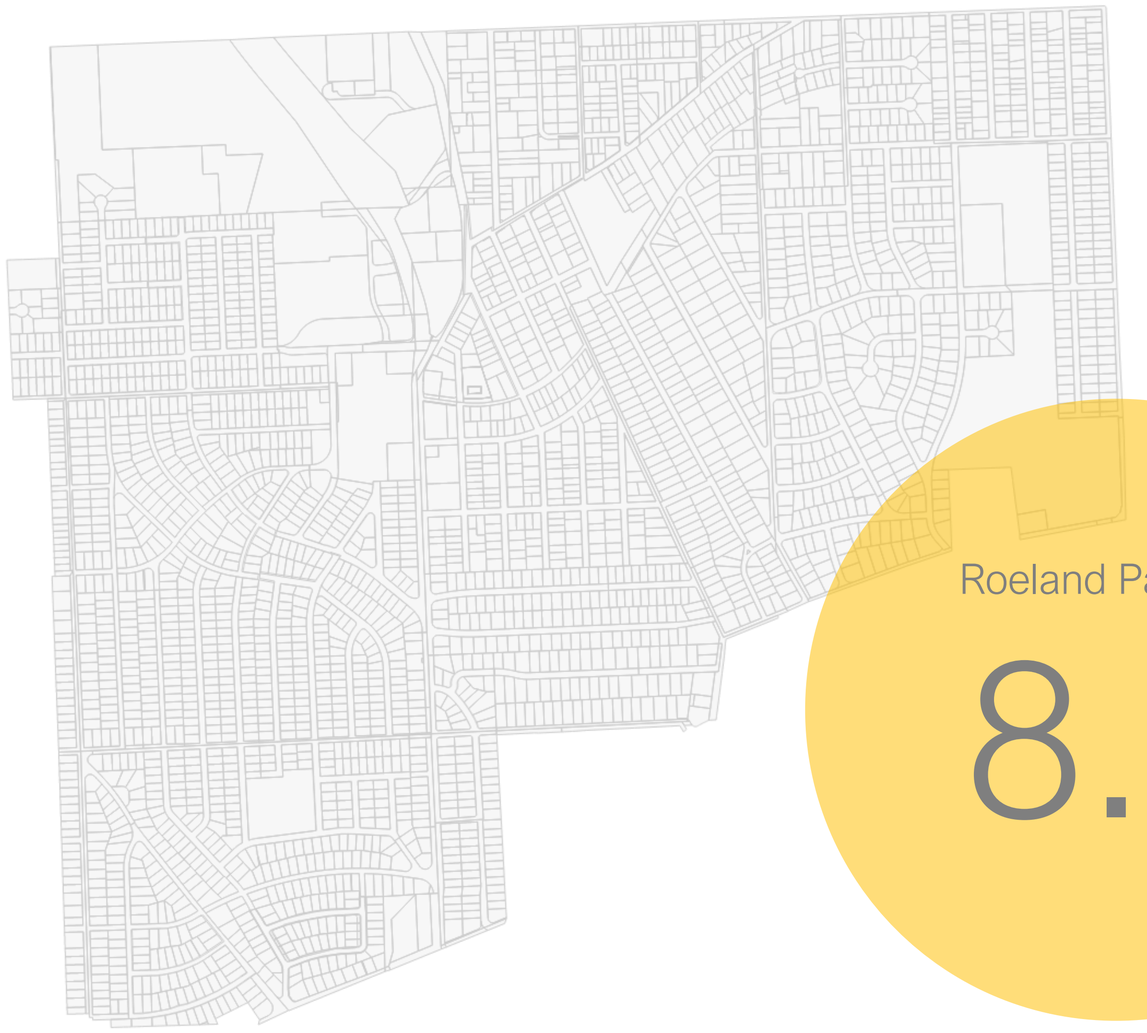
As the grid gets cleaner with more renewable energy, such as higher solar and wind deployment, electricity's proportion of the total footprint will decrease over time.



More than 12,000 MWh of potential solar electricity falls on rooftops of Roeland Park homes and buildings each year.

If these buildings went solar, the city could further reduce emissions by 6,400 metric tons, or almost 12% of the reduction target outlined by Paris

Emissions per capita



Roeland Park, KS

8.2

Kansas City, MO

18.2

(2017)

Johnson County, KS

16.1

(2013)

The per capita emissions of the City of Roeland Park is 8.2 metric tons of CO_2e per resident, significantly lower than neighboring cities due to low levels of heavy industry and manufacturing.

41.4 ▲ %

of emission reductions can come from efficiency

Simple projects inside homes could reduce energy costs for homeowners and residents while making progress on greenhouse gas emissions targets.

This summer, you can analyze your own home with Dynamhex to evaluate savings and emission reductions, based on your individual climate actions.

Efficiency savings

Saving residents money

	Annual household savings	Annual citywide savings	
Potential energy projects from homes	Energy savings* ($)	Energy savings ($)	Emissions (MT CO_2e)
Add insulation to existing walls and cavities	320	211,848	1,693
Add foam to the interior side of foundation walls in basements	152	55,510	620
Conduct air-sealing on windows and enclosures to reduce infiltration	75	64,895	512
Adding rigid foam sheathing on walls and siding	303	60,002	475
Add insulation for attic floor	117	55,605	437
Install improved low-E storm windows on primary windows	108	36,451	390
Install a high-efficiency heat pumps for centrally ducted furnace	1,227	95,936	741
Install a smart thermostat for controlled central heating + cooling	93	45,801	563
Installing a new highly efficient central AC at end-of-life replacement	75	44,691	352
Replace 95% of the home bulbs with LEDs	121	60,761	478
			6,260

*Energy savings shown here does not factor in utility rebates, existing local incentives or upfront costs

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