

A nighttime photograph of the Indianapolis skyline. The city lights are reflected in a large fountain in the foreground. The sky is a deep blue with some clouds. The buildings are illuminated, and the fountain's water is lit up with blue and green lights.

Building Benchmarking and Transparency Policy Opportunities for Indianapolis

Greenlink Analytics

Indianapolis Strives Toward Energy Reduction

Climate change continues to impair cities ability to cope with natural disasters, public health and economic concerns.

In 2018, Indianapolis set an ambitious goal to reduce citywide GHG emissions 26% by 2025 and joined the American Cities Climate Challenge by 2019

Today, Indianapolis is making the transition towards a more just and equitable future through their Benchmarking and Transparency initiative.

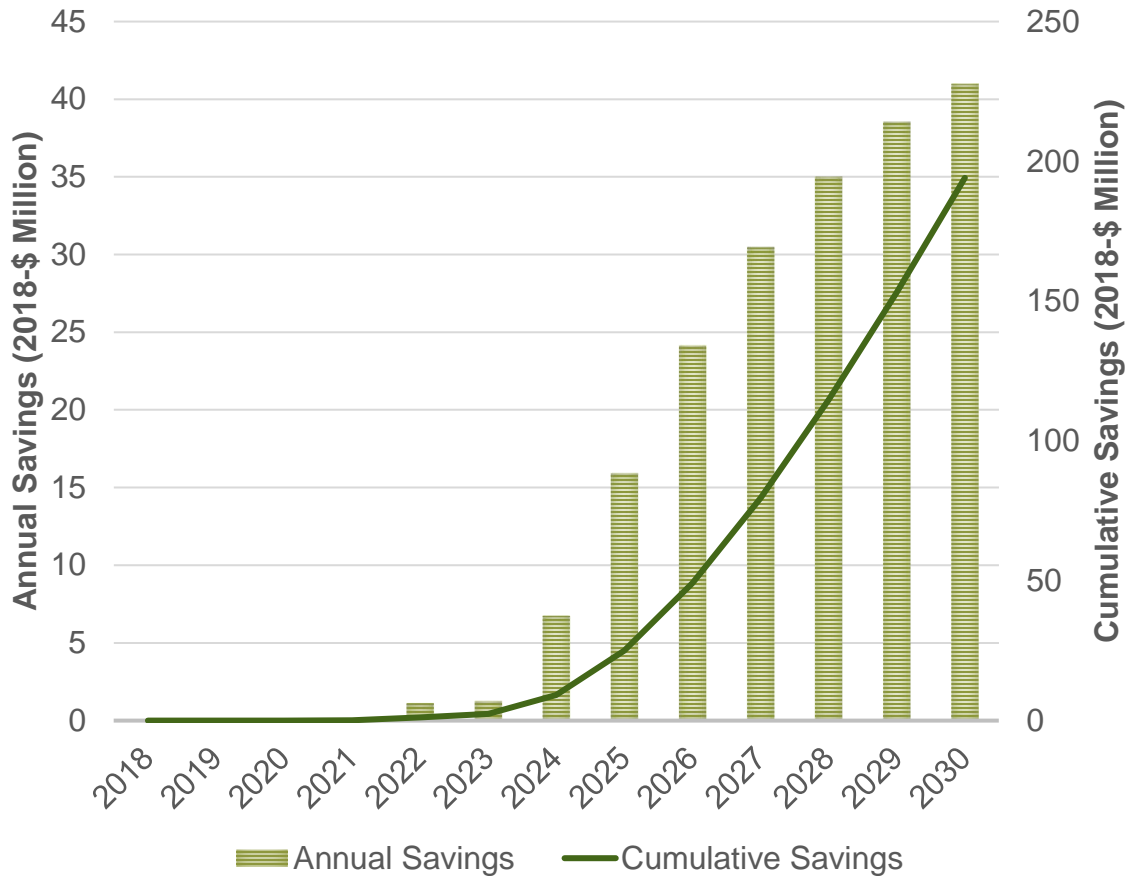
This policy will require several commercial and multifamily buildings to track and share their energy consumption.

Benchmarking & Transparency

Benchmarking and transparency leads to decreases in energy consumption, reductions in health disparities and improved local economies

Proposed Implementation Phased-In Schedule															
Phase 1				Phase 2				Phase 3				Final Phase			
2021				2022				2023				2024			
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Voluntary benchmarking program (for all sectors and size thresholds)				Municipal Buildings over >50,000 SF must comply				Municipal Buildings over >25,000SF must comply				Municipal Buildings over >10,000 must comply			
				Commercial buildings: data submission is voluntary				Commercial buildings over >100,000 SF must comply				Commercial buildings over >50,000 SF must comply			
				Multifamily buildings: data submission is voluntary				Multifamily buildings >100,000 SF must comply				Multifamily buildings >50,000 SF must comply			
				Municipal corporations: data submission is voluntary				Municipal corporations >100,000 SF must comply				Municipal corporations >50,000 SF must comply			
Industrial/ Manufacturing Buildings are Exempt															
Transparency in 2024				Transparency in 2024				Transparency in 2025				Transparency in 2025			

Annual Energy Savings Quickly Achieve Scale

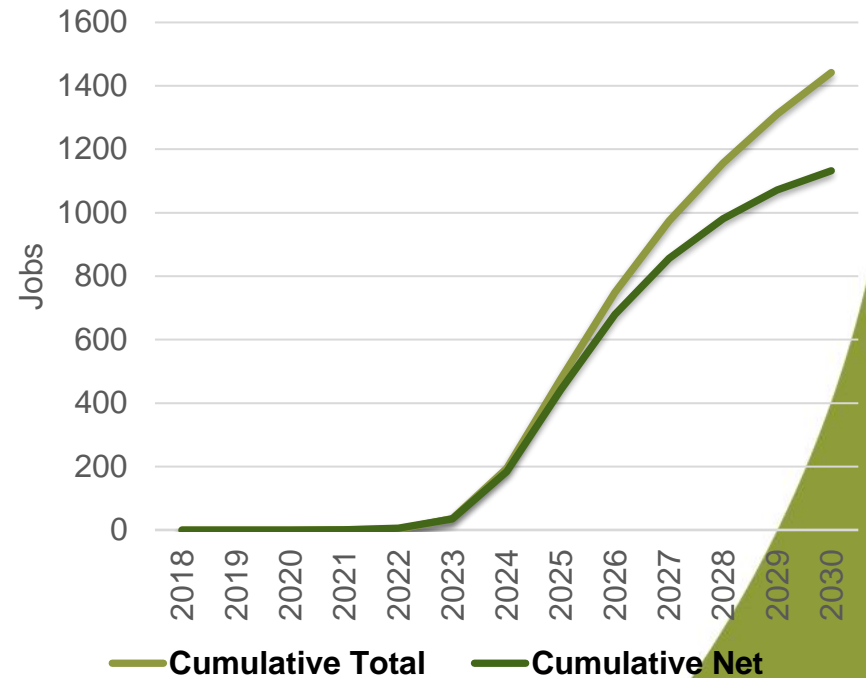
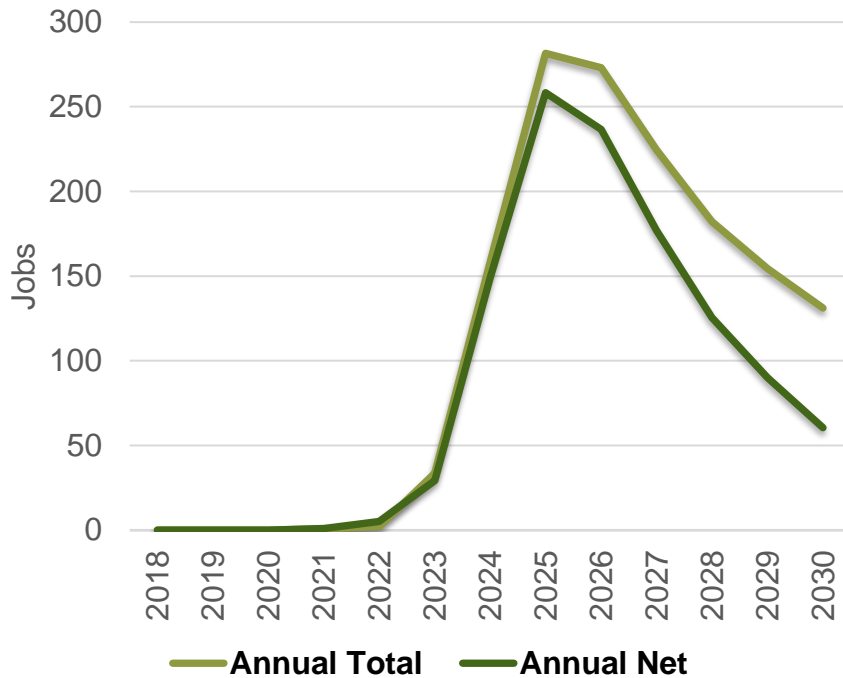


Energy bill savings accumulate to over \$194 million through 2030

Building owners and residents save on average \$16 million yearly through reduced energy consumption

Employment Impacts

Over 1,400 total jobs* created through 2030



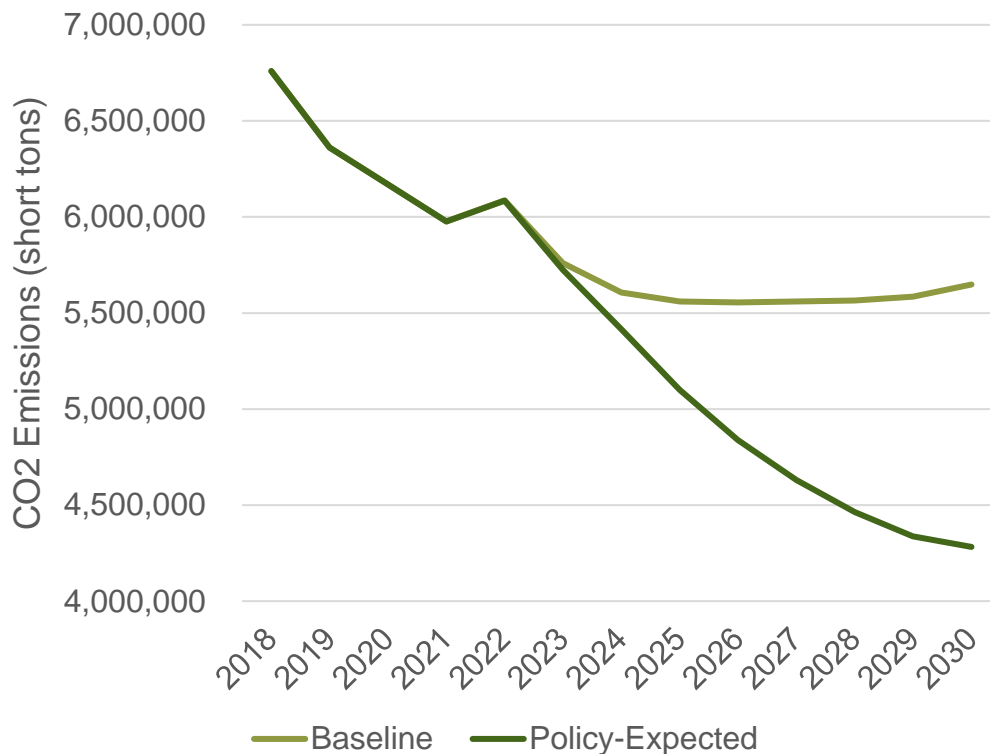
Annual Job Creation (Left) and Cumulatively (Right) Through 2030

**Jobs presented are job-years, representing one full-time employee equivalent.*

Total Jobs represent all job creation; Net Jobs represent job creation minus job losses

Less Carbon Now, Less Carbon Later

Indianapolis is expected to save approximately **9 million short tons** of carbon dioxide through 2030.



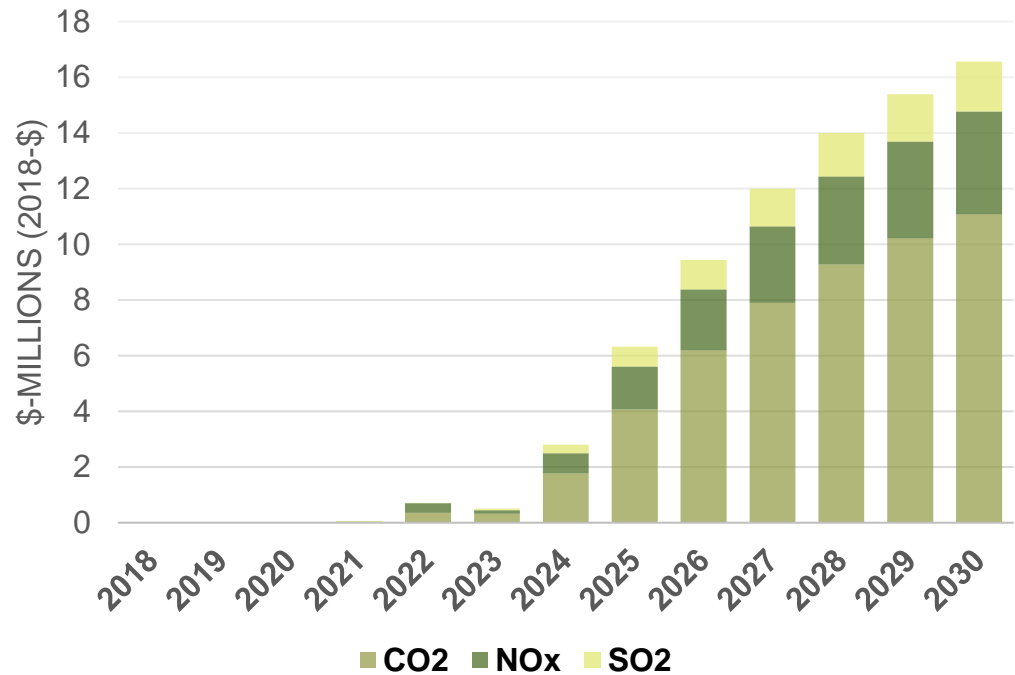
By the end of the modeling horizon, the expected policy results in CO₂ emissions 27% below the business-as-usual scenario.

Health and Climate Benefits

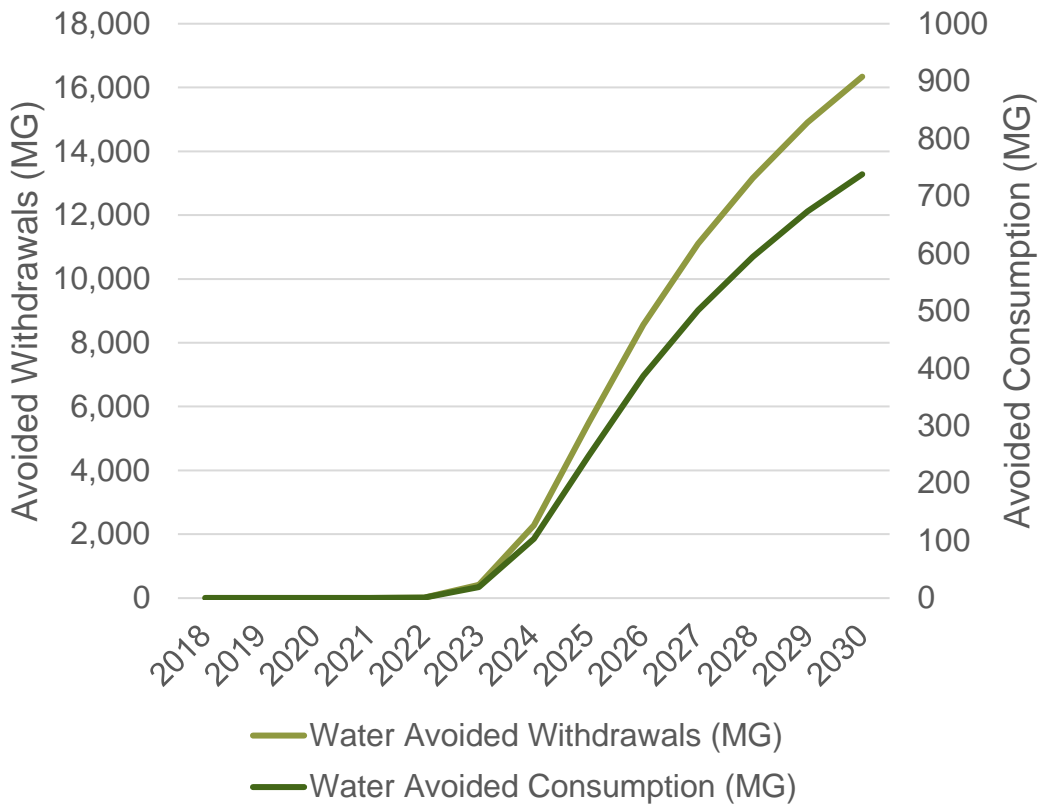


Indianapolis is expected to save over \$77 million in public health savings through air quality improvements through 2030

- *\$51.2 Million in CO₂ Savings*
- *\$18.0 Million in NO_x Savings*
- *\$8.6 Million in SO₂ Savings*



Adding Resilience through Water Savings



Through 2030, Indianapolis saves over 75 billion gallons of water

- On average, around 3 billion gallons annually

Proposal Impacts through 2025 and 2030

Implementing in 2021	Through 2025	Through 2030
Bill Savings(\$M-Total)	\$25.1	\$194.1
Investment (\$M-Total)	\$49.5	\$142.0
Air Quality Benefits (\$M- Total) *	\$10.4	\$77.8
NO _x	\$2.7	\$18.0
SO ₂	\$1.1	\$8.6
CO ₂	\$6.6	\$51.2
Total Benefits *	\$35.4	\$271.9
Total Costs*	\$49.5	\$142.0
Benefit/ Cost Ratio	0.72	1.92
Net Jobs	442.6	1,132
Direct	208.0	630.7
Indirect	88.9	269.4
Induced	84.6	256.5
Total Jobs	476.3	1,441.3
Water Savings (Mg)	8,565	75,541
Withdrawal	8,195	72,277
Consumption	370	3,263
Electricity CO2 Emissions Reductions (thousand short tons)	686	9,035