Signify

Lighting is the quickest path to greener and smarter world
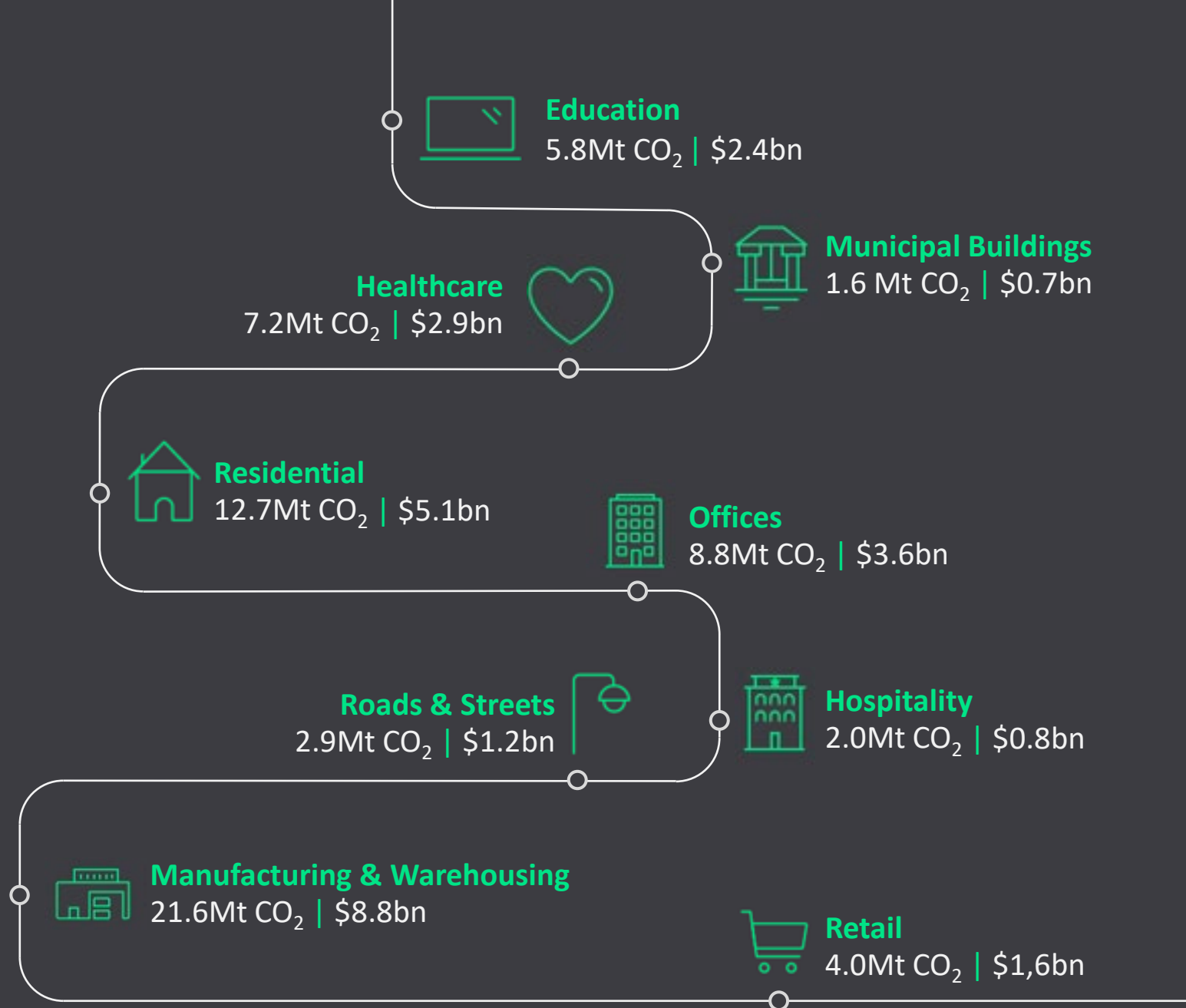
Switching all of the light points in **US** to LED, could annually reduce emission by **70 million tonnes of CO_2**, saving **$28 billion** in energy costs.

The diagram represents a selection of light points' applications in US. Data presented here is a simulation within the framework of the Green Switch conventional light point conversion model, which is a program run by Signify to help its customers accelerate the switch to energy-efficient lighting products, systems and services. All figures and data presented here are illustrative and based on forecasts and assumptions.

Price of Electricity non-Households ($/kWh) = 0,17
Price of Electricity Households ($/kWh) 0,17.

Thousands separator is , - Decimal separator is .

Education
5.8Mt CO_2 | $2.4bn

Municipal Buildings
1.6 Mt CO_2 | $0.7bn

Healthcare
7.2Mt CO_2 | $2.9bn

Residential
12.7Mt CO_2 | $5.1bn

Offices
8.8Mt CO_2 | $3.6bn

Roads & Streets
2.9Mt CO_2 | $1.2bn

Hospitality
2.0Mt CO_2 | $0.8bn

Manufacturing & Warehousing
21.6Mt CO_2 | $8.8bn

Retail
4.0Mt CO_2 | $1,6bn

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Energy Efficient Lighting

Technology Mix
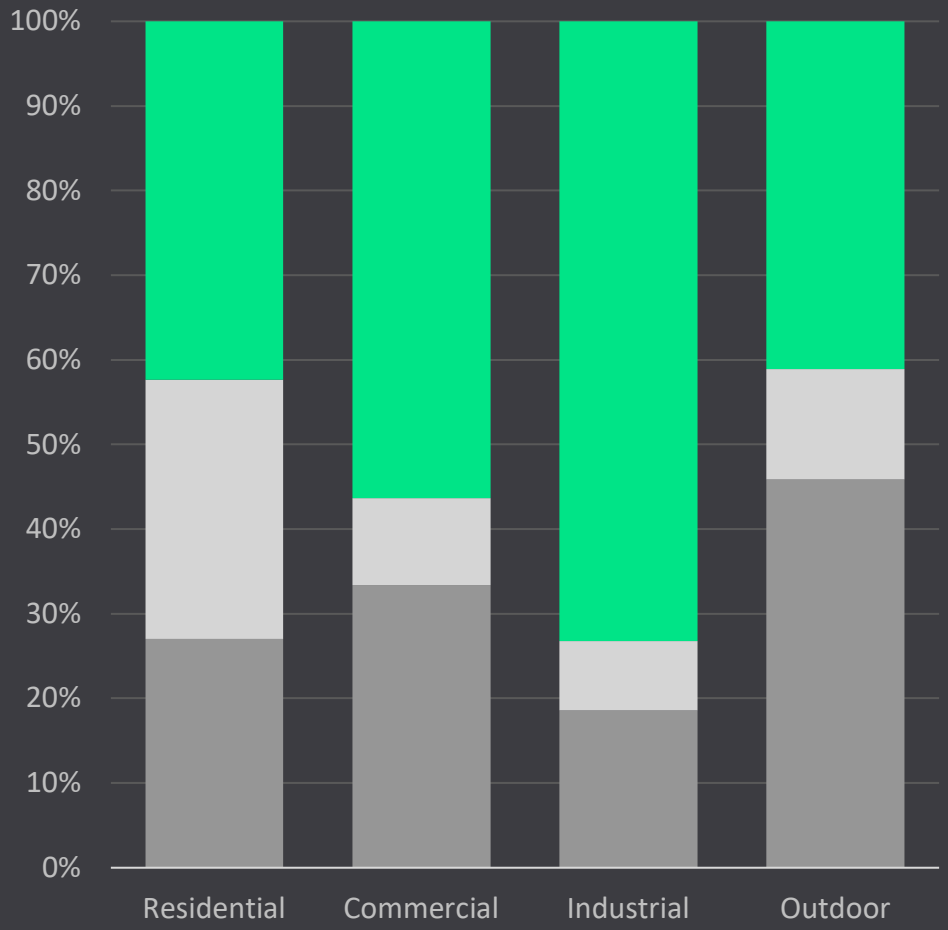
Legend:
- Conv. Light Sources in Conv. Light Points
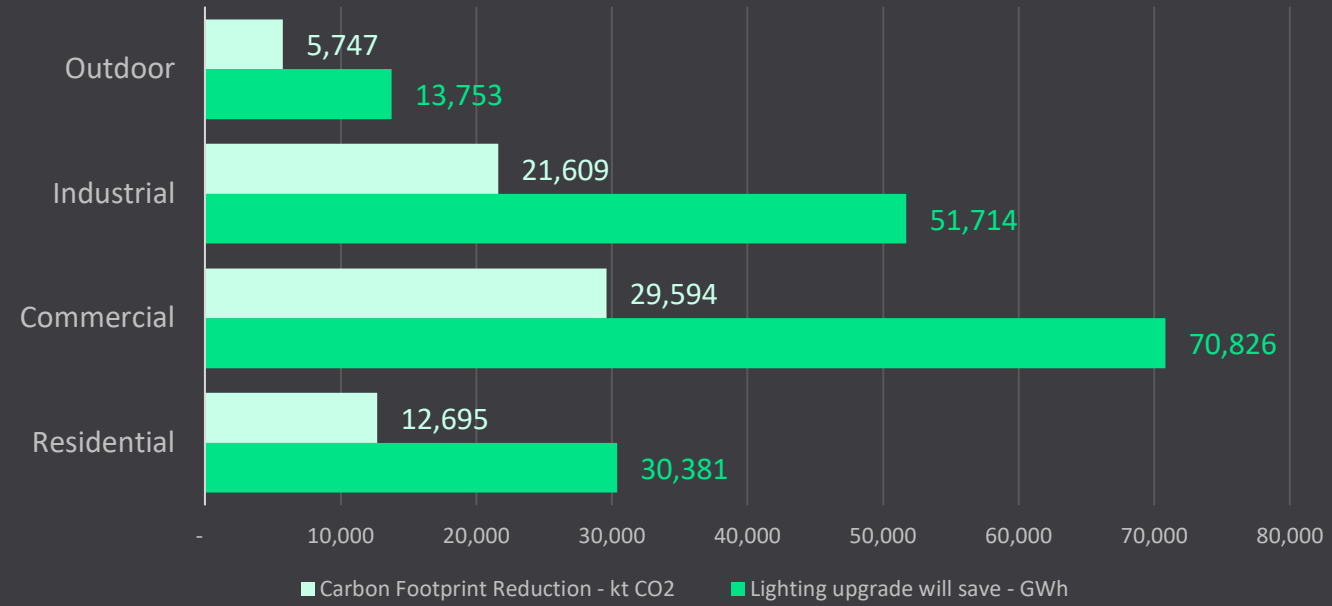- LED light Sources in Conv. Light Points
- LED light Points

Categories: Residential, Commercial, Industrial, Outdoor

Potential Saving

Category	Carbon Footprint Reduction - kt CO2	Lighting upgrade will save - GWh
Outdoor	5,747	13,753
Industrial	21,609	51,714
Commercial	29,594	70,826
Residential	12,695	30,381

Legend:
- Carbon Footprint Reduction - kt CO2
- Lighting upgrade will save - GWh

Potential Saving

Category	Lighting savings ($ Millions)
Outdoor	2,338
Industrial	8,791
Commercial	12,040
Residential	5,165

Legend:
- Lighting savings ($ Millions)

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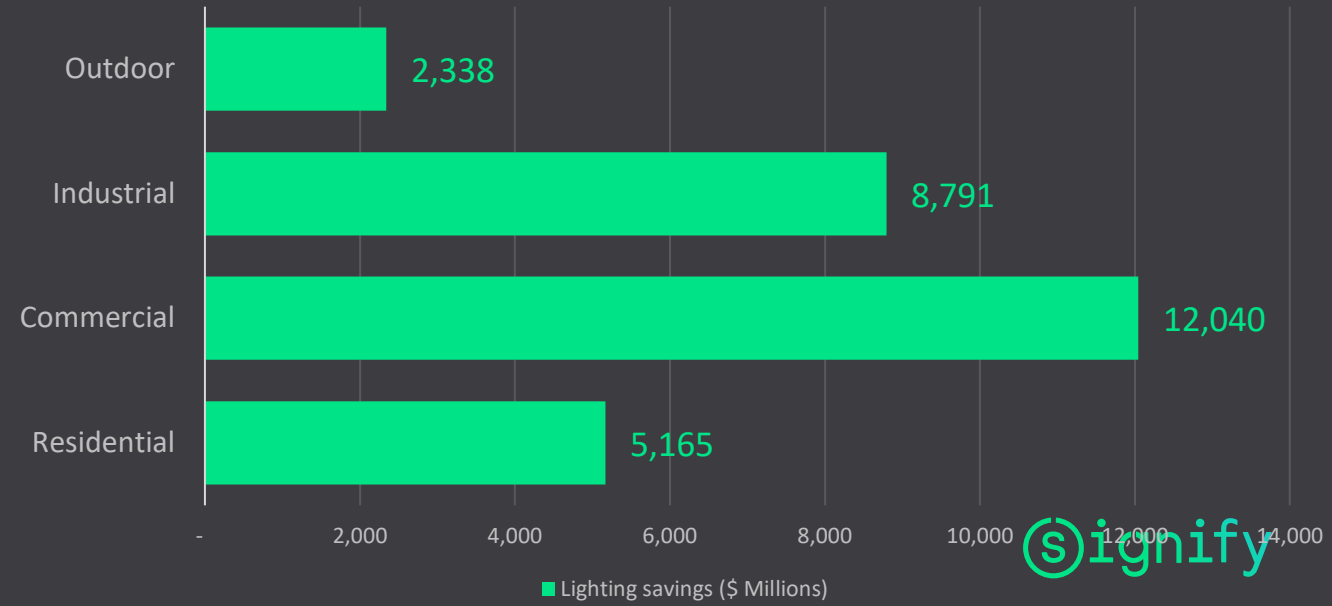
Annual Saving Equivalences

42m Heat-pumps operating	**49m** Electric cars recharging	**26.7m** Fossil fueled cars emission	**288m** Medium-range flights emissions	**3.2b** Trees absorption	**9.8x** Global livestock emissions
14m Households' electricity consumption	**47m** Boilers Water heating	**111m** Air-conditioners operating	**741m** Electric bikes recharging	**1.7m** Electric buses recharging	**207k** SpaceX launches

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Free-up electricity

Switching all the light points in New York State to LED, could make electricity available to power other devices and save $2.0 million in energy costs.

By switching to LED, electricity savings could power:

Heat pumps operation
2,6 million units

Air-conditioners operation
4,1 million units

Water heating
4,5 million units

Electric vehicle charging
3,0 million units

Electric bus charging
106.739 units

Data presented here is a simulation within the framework of the Green Switch conventional light point conversion model, which is a program run by Signify to help its customers accelerate the switch to energy-efficient lighting products, systems and services. All figures and data presented here are illustrative and based on forecasts and assumptions. The diagram represents a selection of electric device consumption. Thousands separator is. – Decimal separator is ,

NY population = 19,8 mln, Area = 21.063 mi2 (54.555km2), Number of enterprises = 481.792, Number of households = 7,6 mln. Price of Electricity = 0,195 ($/kWh).

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Free-up electricity

Switching all the light points in California state to LED, could make electricity available to power other devices and save $4.6 billion in energy costs.

By switching to LED, electricity savings could power:

Heat pumps operation
4,8 million units

Air-conditioners operation
7,7 million units

Water heating
8,5 million units

Electric vehicle charging
5,6 million units

Electric bus charging
199.783 units

Data presented here is a simulation within the framework of the Green Switch conventional light point conversion model, which is a program run by Signify to help its customers accelerate the switch to energy-efficient lighting products, systems and services. All figures and data presented here are illustrative and based on forecasts and assumptions. The diagram represents a selection of electric device consumption. Thousands separator is. – Decimal separator is ,

CA population = 39 mln, Area= 63.202 mi2 (163.694 km2), Number of enterprises = 808.213, Number of households = 13,5 mln. Price of Electricity = 0,242 ($/kWh).

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