

# New Efficiency: New York

## Appliance Standards



## New York State is leading on climate

New York leads the country in fighting climate change, but must act now to adopt measures, including appliance standards, to drive deeper energy and cost savings and greater greenhouse gas reductions.

### Historic Climate Leadership and Community Protection Act (CLCPA) sets New York on a path to decarbonization

- 70% of electricity from renewable sources by 2030
- Carbon-free electric grid by 2040
- Greenhouse gas (GHG) emissions reduction of 85% by 2050
- Carbon neutral economy over time

### New York is driving reduction of energy use through the New Efficiency: New York initiative

- 185 TBtu in on-site energy savings in buildings and industry by 2025—equivalent to heating and powering 1.8 million homes
- Utility energy efficiency investments doubled by 2025
- NYSERDA investments to drive market scale, innovation, and cost reductions

However, more must be done to reduce energy waste and achieve our nation-leading climate goals. As identified in the CLCPA, the State can jumpstart energy efficiency by expanding appliance efficiency standards through statutory changes.

## Appliance standards protect New York consumers and businesses from wasted energy

Expanding appliance standards will reduce GHG emissions and deliver \$14 billion in savings to New Yorkers by reducing wasted energy and money that result from the use of less efficient everyday products and appliances.

### Key components of the bill

Provide NYSERDA with the authority, in consultation with the Department of State (DOS), to establish regulations for testing and setting New York State energy and water efficiency standards for products and appliances.

- Protect New Yorkers by filling federal regulation gaps with new, expanded product categories more closely aligned with other states, helping to create a quasi-national market for these products
- Enable New York State to protect consumers and businesses from illegal products by expanding NYSERDA's compliance authority and DOS's enforcement authority
- Respond to market signals and needs of New Yorkers by enabling NYSERDA to develop new standards and implement standards from other states
- Prevent backsliding by federal government actions by adopting backstop standards at the State level

### What this will achieve

- Savings of \$14 billion while reducing 16 million tons of GHG emissions through 2035
- Removal of the most wasteful, worst-performing products from the market
- Easier, more cost-effective energy saving choices for consumers and businesses
- Eight-month average simple payback for each proposed appliance standard  
> *Example:* an average restaurant could save \$5,000 annually if New York created cost-effective standards for four categories of restaurant equipment—commercial fryers, dishwashers, steam cookers, and hot food holding cabinets. The payback periods for these standards are less than 4 years, while the equipment lasts at least 12 years on average.

**\$14 billion for New Yorkers through product lifetimes**

### SAVE MONEY

\$800 million annually by 2025

\$1.2 billion annually 2030-2035

### SAVE ENERGY

12 TWh of electricity

97 MMtherm of gas and oil annually by 2035

### SAVE WATER

49 billion gallons annually by 2035

### CUT GHG EMISSIONS

16 million tons CO<sub>2</sub>e through 2035



**NYSERDA**

# Realizing the full value of energy efficiency for New Yorkers

## Protecting New Yorkers and Delivering Savings

Energy efficiency protects consumers and business by delivering cost savings each month

- Energy efficiency is one of the least expensive carbon reduction tools, with an average cost of 3.1 cents per kilowatt—with appliance standards, the average New York household could be saving \$80/year on utility bills by 2025, and \$130/year by 2030

## Wasted energy takes money out of people's pockets and businesses' bottom lines

- Through 2035, wasted energy could remove about \$14 billion from the State's economy

## Unleashing economic and environmental benefits

### Energy efficiency creates jobs—local jobs—not vulnerable to outsourcing

- 110,000 New Yorkers are employed in energy efficiency jobs, ~75% of the clean energy workforce
- Expanded energy efficiency will add 50,000 New York jobs by 2025

### Wasted energy is a significant contributor of GHG emissions

- Energy use in buildings and the industrial sector is responsible for more than 30% of the total GHG emissions in NYS
- Energy efficiency will deliver one third of the GHG emission reduction needed to achieve NY's 2030 target of 40% reduction overall

## Large, Cost-Effective Savings



**\$14 billion**

Statewide total net benefits (2021–2035)



**\$1.2 billion/year**

Statewide annual utility bill savings by 2035



**8 months**

Simple payback of expanded State standards

## Carbon, Energy, and Water Benefits by 2025



**87% CO<sub>2</sub>e reduction**

equivalent to 87% of annual GHGs from all activities of Albany, NY



**12% of goal**

Energy savings to achieve 12% of New York State's 2025 energy efficiency goal



**4% reduction**

in annual New York State public water use (use by homes and businesses)