

State Energy Efficiency Standards Benefits - 2010 Model Bill

| Mississippi | | | | | | | | | | | | | | | | |
|--------------------------------|------|----------------|--------------------------------------|----------------------------------------|--------------|----------------|------------------------|------------------------------------|--------------|----------------|----------------------|------------------------------------|------------------------------|----------------------------------------|-----------------------------------|--------------------------------|
| Summary of Benefits by Product | | Effective Date | Annual Savings in 2020 | | | | Annual Savings in 2030 | | | | Economics | | | Cumulative Energy Savings through 2030 | | |
| Products | Year | | Annual Savings per Unit ¹ | Incremental Cost per Unit ¹ | Electricity | Primary Energy | Summer Peak Capacity | Value of Bill Savings ² | Electricity | Primary Energy | Summer Peak Capacity | Value of Bill Savings ² | Pay Back Period ³ | | Benefit / Cost Ratio ⁴ | Net Present Value ⁵ |
| | | kWh | \$ | GWh | BBtu | MW | \$Million | GWh | BBtu | MW | \$Million | Years | \$Million (2009\$) | TBtu | | |
| Hot food holding cabinets | 2013 | 1,815 | \$453 | 0.8 | 8.0 | 0.3 | \$ 0.1 | 1.5 | 15.5 | 0.5 | \$ 0.2 | 2.5 | 4.2 | \$ 0.8 | 0.2 | |
| Pool pumps | 2013 | 1,241 | \$452 | 0.05 | 0.5 | 11.3 | \$ 4.9 | 0.1 | 0.7 | 15.1 | \$ 6.8 | 3.5 | 2.2 | \$ 27.6 | 8.9 | |
| Portable electric spas | 2013 | 250 | \$100 | 1.3 | 13.2 | 0.3 | \$ 0.1 | 1.7 | 17.0 | 0.4 | \$ 0.2 | 3.9 | 2.0 | \$ 0.7 | 0.2 | |
| Portable lighting fixtures | 2013 | 22 | \$2 | 29.9 | 311.6 | 4.4 | \$ 3.0 | 37.9 | 380.7 | 5.6 | \$ 3.9 | 0.7 | 11.3 | \$ 26.9 | 5.2 | |
| Televisions ⁶ | 2013 | 167 | \$0 | 165.9 | 1,729.6 | 3.5 | \$ 16.6 | 221.2 | 2,224.7 | 4.6 | \$ 22.8 | NA | NA | \$ 170.4 | 30.0 | |
| Water dispensers | 2013 | 266 | \$12 | 2.4 | 25.3 | 0.3 | \$ 0.2 | 2.6 | 26.0 | 0.4 | \$ 0.3 | 0.5 | 14.4 | \$ 1.9 | 0.4 | |
| Total | | | | 200 | 2,088 | 20 | \$ 25 | 265 | 2,665 | 27 | \$ 34 | | | \$ 228 | 45 | |

| Product | Emissions Reductions in 2020 | | | Emissions Reductions in 2030 | | |
|----------------------------|------------------------------|-------------|-------------|------------------------------|--------------------|--------------------|
| | CO2 1000 MT | NOx Tons | SO2 Tons | CO2 1000 MT | NOx Metric Tons | SO2 Metric Tons |
| Hot food holding cabinets | 0.4 | 0.5 | 2.1 | 1.0 | 0.9 | 4.2 |
| Pool pumps | 27.6 | 28.7 | 132.5 | 42.8 | 38.3 | 176.7 |
| Portable electric spas | 0.7 | 0.7 | 3.4 | 1.1 | 1.0 | 4.5 |
| Portable lighting fixtures | 16.8 | 17.4 | 80.4 | 24.7 | 22.1 | 101.9 |
| Televisions | 93.1 | 96.8 | 446.4 | 144.1 | 129.1 | 595.3 |
| Water dispensers | 1.4 | 1.4 | 6.5 | 1.7 | 1.5 | 7.0 |
| Total | 140 | 146 | 671 | 215 | 193 | 889 |

Notes:

- ¹ Annual savings per unit and incremental cost per unit is the difference between basic, inefficient products and products meeting the proposed standard. Statewide energy savings estimate accounts for market share of products which are more efficient than basic, inefficient products.
- ² Value of bill savings is based on energy savings in 2020 or 2030 and current average state energy prices. This value does not take account of the incremental cost of more efficient products.
- ³ Payback period is the length of time required to recoup any increase in product cost from advances in efficiency.
- ⁴ The benefit / cost ratio is a measure of the annual energy bill savings of an efficient product versus its incremental cost.
- ⁵ Net present value is the total monetary value of bill savings achieved by products sold under the standards between now and 2030 minus the total incremental product cost incurred by purchasers as a result of the standards over the same period expressed in current dollars. Both costs and savings are discounted using a 5% real discount rate.
- ⁶ The payback period and benefit/cost ratio were not calculated for televisions because the incremental cost for improvements in efficiency is estimated to be zero.