

Potential Lost Savings from DOE's Proposed Rollbacks of Efficiency Standards

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Summary

In May, the Department of Energy (DOE) published 17 proposals to roll back efficiency standards. Here we provide the potential lost energy, water, and economic savings and emissions reductions from the proposed rollbacks.

DOE's proposals to roll back efficiency standards could significantly increase energy and water waste while raising costs for consumers and businesses. Table 1 shows DOE's prior estimates of the cumulative energy and water savings and net economic savings for consumers and businesses for 15 of the 17 standards that the department is now proposing to repeal.¹ DOE's current proposals would put these savings at risk.

Table 1. Energy, water, and economic savings at risk from DOE's proposed rollbacks

Final rule date	Compliance date	Cumulative Cumulative energy savings water savings (quads) (trillion gallons)		Net economic savings (billion \$)	
2023	2023/2025	1.8		13.7	
2016	2018	0.17		1.2	
2010	2013	**	0.14	**	
2014	2018	**	0.02	**	
2016	2019	0.1	0.12	1.48	
2012	2015/2018	0.05	0.02	0.56	
2024	2028	0.003	0.01	0.02	
2020	2025	0.16		0.4	
2009	2012	0.1		0.56	
2009	2012	0.05		0.14	
2024	2028	0.03		0.19	
	date 2023 2016 2010 2014 2016 2012 2024 2020 2009	date date 2023 2023/2025 2016 2018 2010 2013 2014 2018 2016 2019 2012 2015/2018 2024 2028 2020 2025 2009 2012 2009 2012	Final rule date Compliance date energy savings (quads) 2023 2023/2025 1.8 2016 2018 0.17 2010 2013 ** 2014 2018 ** 2016 2019 0.1 2012 2015/2018 0.05 2024 2028 0.003 2020 2025 0.16 2009 2012 0.05 2009 2012 0.05	Final rule date Compliance date energy savings (quads) water savings (trillion gallons) 2023 2023/2025 1.8 2016 2018 0.17 2010 2013 ** 0.14 2014 2018 ** 0.02 2016 2019 0.1 0.12 2012 2015/2018 0.05 0.02 2024 2028 0.003 0.01 2020 2025 0.16 2009 2012 0.1 2009 2012 0.05	

¹ DOE has never updated the faucet standards originally established by Congress, and DOE did not provide a savings estimate associated with the amended condenser water use standards for automatic commercial ice makers.



Dehumidifiers	2016	2019	0.3		2.71
Dish	2012	2013	**	0.14	**
Dishwashers	2024	2027	**	0.24	**
External power supplies	2014	2016	0.94		3.8
N. diamanuaria anna	2013	2016	0.48		3.38
Microwave ovens	2023	2026	0.06		0.35
Miscellaneous	2016	2019	1.5		11.0
refrigeration products	2024	2029	0.32		0.77
Portable air conditioners	2020	2025	0.49		3.1
Residential clothes	2012	2015/2018	**	3.03	**
washers	2024	2028	**	1.89	**
Total			6.6	5.6	43

Notes: The savings are calculated over a 30-year period. A "quad" is a unit of energy equivalent to one quadrillion British thermal units (Btus). The net economic savings reflect the net present value savings for consumers and businesses, accounting for both operating costs and upfront purchase costs, using a 3% discount rate.

DOE's proposals to roll back efficiency standards could also significantly increase greenhouse gas and air pollutant emissions that harm public health and the environment. Table 2 shows DOE's prior estimates of the cumulative emissions reductions from the standards that the department is now proposing to repeal.

Table 2. Emissions reductions at risk from DOE's proposed rollbacks

			Cumulative emissions reductions					
Product	Final rule date	Compliance date	CO ₂ (million metric tons)	NOx (thous. tons)	SO ₂ (thous. tons)	CH₄ (thous. tons)	N₂O (thous. tons)	Hg (tons)
Air cleaners	2023	2023/2025	57.7	91.2	24.2	411.4	0.6	0.2
Battery chargers	2016	2018	10.8	18.8	6.6	43.6	0.14	0.02
Commercial clothes	2010	2013	**	**	**	**	**	**
washers	2014	2018	**	**	**	**	**	**
Commercial prerinse spray valves	2016	2019	5.9	14.7	1.8	47.4	0.04	0.01
Compact residential	2012	2015/2018	**	**	**	**	**	**
clothes washers	2024	2028	**	**	**	**	**	**
Compressors	2020	2025	8.2	11.0	6.5	40.8	0.1	0.02

^{**}For commercial clothes washers, dishwashers, and residential clothes washers, DOE's current proposals would repeal the water efficiency standards while leaving the energy efficiency standards in place. In the prior rules, DOE did not separate out the economic savings associated with just the water efficiency requirements.



Total			311	426	232	1,194	2.7	0.8
washers	2024	2028	**	**	**	**	**	**
Residential clothes	2012	2015/2018	**	**	**	**	**	**
Portable air conditioners	2020	2025	25.6	32.2	16.4	124.8	0.4	0.06
refrigeration products	2024	2029	5.85	10.8	1.8	48.6	0.06	0.01
Miscellaneous	2016	2019	91.8	164.0	54.0	387.1	1.1	0.2
wiicrowave overis	2023	2026	1.9	2.9	0.85	12.6	0.02	0.005
Microwave ovens	2013	2016	38.1	32.7	27.1			0.095
External power supplies	2014	2016	47.0	15.0	81.7			0.1
DISTIWASTIETS	2024	2027	**	**	**	**	**	**
Dishwashers	2012	2013	**	**	**	**	**	**
Dehumidifiers	2016	2019	18.6	33.1	11.0	77.9	0.23	0.04
Conventional ovens	2024	2028	**	**	**	**	**	**
Conventional ovens	2009	2012	**	**	**	**	**	**
Conventional cooking tops	2009	2012	**	**	**	**	**	**

^{**}For commercial clothes washers, dishwashers, and residential clothes washers, DOE's current proposals would repeal the water efficiency standards while leaving the energy efficiency standards in place. For compact residential clothes washers, conventional cooking tops, and conventional ovens, the prior rules addressed additional categories of products, and DOE did not separate out the emissions reductions for these specific products.

Appendix A shows the sources for the savings estimates.



Appendix A. Sources for savings estimates

Product	Sources
Air cleaners	DOE 2023 Final Rule: www.govinfo.gov/content/pkg/FR-2023-04-11/pdf/2023-06499.pdf .
Battery chargers	DOE 2016 Final Rule: www.govinfo.gov/content/pkg/FR-2016-06-13/pdf/2016-12835.pdf .
Commercial clothes washers	DOE 2010 Final Rule: www.regulations.gov/document/EERE-2006-5TD-0127-0006 . DOE 2014 Final Rule Technical Support Document: www.regulations.gov/document/EERE-2012-BT-STD-0020-0036 .
Commercial prerinse spray valves	DOE 2016 Final Rule: www.govinfo.gov/content/pkg/FR-2016-01-27/pdf/2016-00068.pdf .
Compact residential clothes washers	DOE 2012 Final Rule: www.govinfo.gov/content/pkg/FR-2012-05-31/pdf/2012-12320.pdf . DOE 2024 Final Rule Technical Support Document: www.regulations.gov/document/EERE-2017-BT-STD-0014-0510 . DOE 2024 Final Rule National Impact Analysis: www.regulations.gov/document/EERE-2017-BT-STD-0014-0512 .
Compressors	DOE 2020 Final Rule: www.govinfo.gov/content/pkg/FR-2020-01-10/pdf/2019-26355.pdf .
Conventional cooking tops	DOE 2009 Final Rule: www.govinfo.gov/content/pkg/FR-2009-04-08/pdf/E9-7545.pdf .
Conventional ovens	DOE 2009 Final Rule: www.govinfo.gov/content/pkg/FR-2009-04-08/pdf/E9-7545.pdf . DOE 2024 Final Rule Technical Support Document: www.regulations.gov/document/EERE-2014-BT-STD-0005-12819 .
Dehumidifiers	DOE 2016 Final Rule: www.govinfo.gov/content/pkg/FR-2016-06-13/pdf/2016-12881.pdf .
Dishwashers	DOE 2012 Final Rule: www.govinfo.gov/content/pkg/FR-2012-05-30/pdf/2012-12340.pdf . DOE 2024 Final Rule: www.govinfo.gov/content/pkg/FR-2024-04-24/pdf/2024-08212.pdf .
External power supplies	DOE 2014 Final Rule: www.govinfo.gov/content/pkg/FR-2014-02-10/pdf/2014-02560.pdf .
Microwave ovens	DOE 2013 Final Rule: www.govinfo.gov/content/pkg/FR-2013-06-17/pdf/2013-13535.pdf . DOE 2023 Final Rule: www.govinfo.gov/content/pkg/FR-2023-06-20/pdf/2023-12958.pdf .
Miscellaneous refrigeration products	DOE 2016 Final Rule: www.govinfo.gov/content/pkg/FR-2016-10-28/pdf/2016-24759.pdf .





	DOE 2024 Final Rule: www.govinfo.gov/content/pkg/FR-2024-05-07/pdf/2024-08001.pdf .
Portable air conditioners	DOE 2020 Final Rule: www.govinfo.gov/content/pkg/FR-2020-01-10/pdf/2019-26350.pdf .
Residential clothes washers	DOE 2012 Final Rule: www.govinfo.gov/content/pkg/FR-2012-05-31/pdf/2012-12320.pdf .
	DOE 2024 Final Rule: www.govinfo.gov/content/pkg/FR-2024-03-15/pdf/2024-04736.pdf .