

Technology Fact Sheet

Technology Name	Energy efficient home appliancesⁱ http://www.iuses.eu/materiali/ro/MANUAL_PENTRU_ELEVI/Eficienta_energetica_in_cladiri.pdf
Subsector GHG emission (megatons CO ₂ -eq)	GHG emissions in the buildings sector in 2009 accounted for 2825 Gg, of which 75% (2120 Gg) - from residential buildings.
Background/Notes, Short description of the technology option	Home appliances are increasingly wider used in everyday life, increasing the amount of energy used. It is therefore necessary to implement as widely as possible efficient energy devices of class A, A +, A + + that reduce electricity consumption by 60-80%.
Implementation assumptions. How the technology will be implemented and diffused across the subsector? Explain if the technology could have some improvements in the country environment.	The total power of home appliances in Moldova can be assessed at 3.5 million kW. Increasing their efficiency by 20% by 2030 will allow to save over 2.1 million MWh per year.
Implementation barriers	- Long life of home appliances of 15-20 years and relatively high cost. Consumers are reluctant to change an old fridge, a TV, a washing machine, etc which is functional but not energy efficient.
Reduction in GHG emissions (megatons CO ₂ -eq)	Reduction of 0.9 mil.t CO ₂ in 2010 – 2030
Impact Statements - Impact of this option on the country's development priorities	
Country social development priorities	Reduce consumers spending
Country economic development priorities – economic benefits	By 2030 reduce fuel consumption by more than 50 thousand tone coal equivalent (t.c.e) per year
Country environmental development priorities	Reduce harmful emissions
Other considerations and priorities such as market potential	-
Costs	
Capital costs	Total investments of cca 430 mil.USD
Operational and Maintenance costs	Maintenance costs will increase insignificantly
Cost of GHG reduction	
Lifetime	Lifetime – 10-20 years
Other	-

ⁱ This fact sheet has been extracted from TNA Report - Technology Needs Assessment for climate change mitigation - Republic of Moldova. You can access the complete report from the TNA project website <http://tech-action.org/>