Technology Fact Sheet

Technology Name	**Energy Efficient lamps**[i] http://www.iuses.eu/materiali/ro/MANUAL_PENTRU_ELEVI/Eficienta_energetica_in_cladiri.pdf
Subsector GHG emission (megatons CO2-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	Incandescent lamps currently in use (Class E) have luminous efficiency of 10-12 lm / W, while energy efficient lamps (Class A) - 50 lm / W. If currently energy intensity of illumination in residential buildings is on average 10 W/m2, fluorescent lamps will reduce it to 2 W/m2.
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.	Given the overall floorage by 2030 is 86.2 mil. m^2, energy efficient lamps will save more than 1 million MWh / year.
Implementation barriers	- A ten times higher price of lamps is a psychological barrier for consumers, which will gradually disappear.
Reduction in GHG emissions (megatons CO2-eq)	Reduction of 7.5 mil.t CO_2 In between 2010 – 2030
Impact Statements - Impact of this option on the country's development priorities	
Country **social** development priorities	Improves indoor comfort. Reduce consumers spending.
Country **economic** development priorities – economic benefits	By 2030 reduce fuel consumption by more than 120 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 57 mil.USD
Operational and Maintenance costs	Operational and Maintenance costs will increase insignificantly
Cost of GHG reduction	
Lifetime.	Lifetime – 1.0 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/**