Technology Fact Sheet

Technology Name	**Replacement of Incandescent lamps with Energy Efficient lamps**[i] http://www.reegle.info/index.php?searchTerm=energy%20saving%20lamps&site=clean_energy_search&search=Search&gclid=CLjvmdG23a8CFQpj3wodT0quAg
Subsector GHG emission (megatons CO2-eq)	GHG emissions in the buildings sector in 2009 accounted for 2825 Gg, of which 25% (706 Gg) - from administrative 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 the energy efficient lamps (Class A) - 50 lm / W. If energy intensity of illumination is 10 W/m2 on average, for fluorescent lamps it will be 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.	Currently energy intensity of illumination is 10 W/m2 on average, for fluorescent lamps it will be 2 W/m2. For area of 21.55 million m2 in 2030 energy efficient lamps will save more than 250 million kWh / year.
Implementation barriers	- Cost of lamps is 10 times higher and is a psychological barrier for consumers which will gradually disappear.
Reduction in GHG emissions (megatons CO2-eq)	Reduction of 1.06 mil.t CO_2 in between 2010 – 2030.
Impact Statements - Impact of this option on the country's development priorities	
Country social development priorities	Improve indoor comfort conditions. Reduce consumer spending.
Country economic development priorities – economic benefits	By 2030 reduce fuel consumption by more than 31 thousand tone coal equivalent (t.c.e) per year
Country environmental development priorities	Reduce harmful emissions
Other considerations and priorities such a market potential	-
Costs	
Capital costs	Total investments of cca 14.2 mil.USD
Operational and Maintenance costs	Operational and Maintenance costs of 15 USD/GJ
Cost of GHG reduction	The specific cost of reduction will be 13.4 USD/t
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/**