

Technology Fact Sheet

Technology Name	Solid fuel gasification boilersⁱ / ORLAN BOILER OPERATING ON WOOD WASTE. Romstal. Universul instalațiilor www.romstal.ro/
Subsector GHG emission (megatons CO ₂ -eq)	5.067 mln.t CO ₂ in thermal power sector in 2010
Background/Notes, Short description of the technology option	These boilers allow adjustment of heat productivity to the amount of incoming air, thus enabling the automation of the process of solid fuels combustion in boilers of small and medium productivity / ORLAN BOILER OPERATING ON WOOD WASTE. Romstal. Universul instalațiilor www.romstal.ro/ . These boilers also allow to increase efficiency by 2-5 % and reduce CO emissions.
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.	By 2030 energy consumption for heating purposes is expected to reach 46.6 PJ, CO ₂ emissions - to 1.89 mln.t. Given this level of consumption, the share of gasification boilers can not exceed 1%, of which 80% is expected to operate on wood and 20% - on coal.
Implementation barriers	- Increased investments
Reduction in GHG emissions (megatons CO ₂ -eq)	0.135 Mt.CO ₂ eq.
Impact Statements – Impact of this option on the country development priorities	
Country social development priorities	Greatly reduces the time of servicing operation and improves the climate in rooms.
Country economic development priorities – economic benefits	insignificant
Country environmental development priorities	Reduction in CO emissions
Other considerations and priorities such as market potential.	-
Costs	
Capital costs	8.25 mil.\$
Operational and Maintenance costs	Operational and Maintenance costs – 6.7 \$/GJ.
Cost of GHG reduction	3.03 \$/t
Lifetime.	Lifetime – 10 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/>