

Technology Fact Sheetⁱ

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| Technology Name | Radiant panels for local heating |
| Subsector GHG emission (megatons CO ₂ -eq) | 5.067 mln.t CO ₂ in thermal energy sector in 2010 |
| Background/Notes, Short description of the technology option | Electric or hydrocarbons, mainly natural gas, based radiator panels are used for local heating in large premises: industrial buildings, sports halls, trade areas. They feature low inertia and directed flow of heat that can heat only the room and only during the required period of time [Commercial gas infrared heater. [http://www.archiexpo.com/prod/detroit-radiant-products-company/commercial-infrared-gas-radiators-52180-473099.html] |
| 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 2020 energy consumption for heating is expected to reach 46.6 PJ, CO ₂ emissions - to 1.89 mln.t. The share of radiant panels at such level of consumption will be insignificant - 0.1 5. |
| Implementation barriers | - Relatively few cases of use - |
| Reduction in GHG emissions (megatons CO ₂ -eq) | 0.0065 |
| Impact Statements - How this option impacts the country development priorities | |
| Country social development priorities | Improve indoor climate. Reduce energy consumption |
| Country economic development priorities – economic benefits | Annual savings of 150 thousand m ³ of gas |
| Country environmental development priorities | Reduction in CO and NO _x emissions |
| Other considerations and priorities such as market potential | - |
| Costs | |
| Capital costs | Investments of 80 thousand USD are much lower than in traditional heating systems |
| Operational and Maintenance costs | Operational and maintenance costs will consist almost entirely of cost of gas, and other primary sources of energy - 35.9 USD / GJ in 2030 at expected gas price of 1.0 USD per m ³ |
| Cost of GHG reduction | 12.56 USD/t CO ₂ |
| Lifetime. | Lifetime – 8 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/>