

**Fact sheet**

<b>Section</b>	<b>Indication of content</b>
<b>1 Title of the best practice</b>	System to support the construction of heating systems using biomass as a fuel
<b>2 Precise theme/issue tackled by the practice</b>	Practice regarding funding the upgrading of existing heating systems (carbon) in public and private buildings with use of biomass combustion technologies. The activities were designed to increase use of renewable energy in energy production and protection of the air by reducing CO2 emissions. Subsidies were also intended to entice potential buyers to the implementation of modern installation using biomass instead of coal, natural gas, fuel oil that were not subsidized in any way.
<b>3 Objectives of the best practice</b>	The main objective was protection of the air by reducing CO2 emissions and increased use of biomass for heating purposes.
<b>4 Location</b>	Poland
	Malopolska Region
<b>5 Detailed description of the best practice</b>	Origin
	4 years
	Regional Fund for Environmental Protection and Water Management in Cracow
	Over four years have been funded and upgraded 11 heating systems, which have been adapted to burn various types of biomass such as pellets, wood chips, grain. Subsidies aimed at promoting the use of renewable energy sources and upgrading of old coal-fired boiler to new biomass boilers.
	Institutions that have opted for the acquisition financing from the funds committed to using only biomass for heating purposes.
	Grant reached level of 40, 50 and 60 percent of the total cost of installation. Within five years, the total amount of grants allocated to the modernization of boiler and implementation of biomass



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	<p>installation reached over 500 000 Euro</p> <p>The introduction of such funds undoubtedly contributed to the increased interest in using biomass, building a multitude of installations using this renewable energy source, and thus to improve air quality in the region by a high degree of reduction of CO2. These funds contributed to the modernization of old installation which use was associated with major accident hazards to modern eco and safe biomass installations. Such activities may be disseminated in many regions, because they require only a financial contribution from local authorities. The introduction of grants of this type leads to a situation where a potential beneficiary, who wants to modernization of the boiler, instead of choosing an solution using traditional fossil fuels will select eco solution.</p> <p>The only danger in the use of such funds to build a biomass installation in Poland is the lack of fuel suppliers in the market</p> <p>Expected CO2 reduction is about 6 000 ton per year</p> <p>Expected Energy production is about 15 000 MWh</p> <p>Expected Heat production is about 15 000 MWh</p>
<b>6 Evaluation</b>	<ul style="list-style-type: none"> <li>- Possible demonstrated results (e.g. through indicators)</li> <li>- Possible success factors</li> <li>- Difficulties encountered</li> </ul>
<b>7 Lessons learnt from the best practice</b>	<p>The biggest barrier that makes this kind projects in Poland has small interest is the lack suppliers of biomass on the market. Difficulties in obtaining this kind of fuel in the market makes it even despite subsidize biomass technology only few potential buyers decided on this type of installation. Another problem is the price of biomass, in conjunction with a small number of suppliers in the market and the lack of competition, the price of biomass is high compared to its calorific value which also causes less interest of potential buyers.</p>
<b>8 Contact information</b>	<p>Regional Fund for Environmental Protection and Water Management in</p>



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<b>9 Other possible interesting information</b>	- Various documents (reports, presentations, etc.)
<b>10. Best practice transfered</b>	



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