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POLAND
Global Methane Initiative - Country update

Vancouver, 13 March 2013

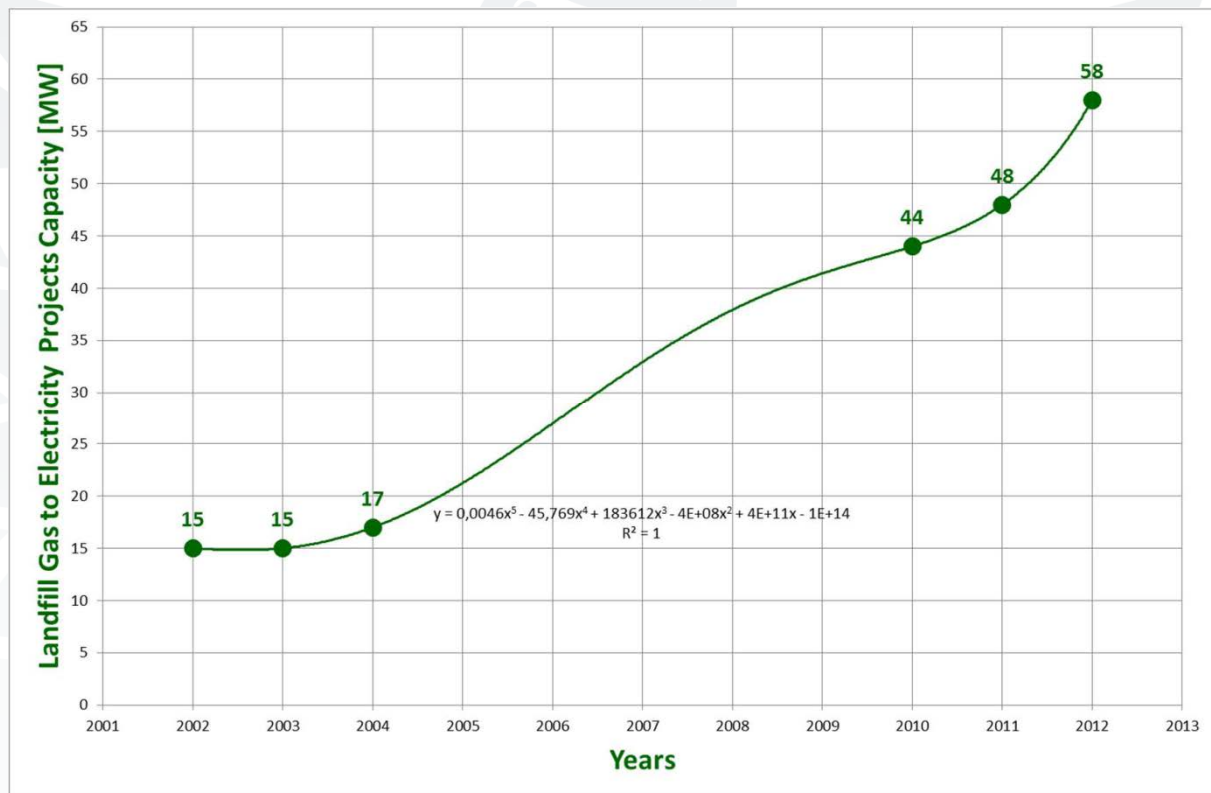
Global Methane Initiative meeting October 2011, Kraków

Thank you for your participation !



- an important meeting in the field of economic development and climate change during the Polish Presidency in the Council of the EU
 - positive feedback after the meeting from stakeholders involved in methane reduction and use projects
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Municipal Solid Waste LFG to Electricity Projects



Energy generation from the LFG projects in Poland has significantly increased during last years

Municipal Solid Waste LFG to Electricity Projects

Voivodeship	Number of projects	Capacity [MW]
dolnośląskie	5	4.345
kujawsko-pomorskie	8	3.814
lubelskie	1	0.500
lubuskie	1	0.500
łódzkie	5	4.675
małopolskie	6	2.928
mazowieckie	21	11.956
opolskie	1	0.450
podkarpackie	3	1.511
podlaskie	1	0.700
pomorskie	4	3.557
śląskie	15	11.738
świętokrzyskie	1	0.360
warmińsko-mazurskie	3	1.514
wielkopolskie	8	5.497
zachodniopomorskie	11	4.253
Total	94	58.298

Number of projects
and their capacities

Municipal Solid Waste GMI projects

So far - 3 projects under the GMI:

- 09.2008 – 11.2009 Landfill gas in Poland: Energy Capability and awareness of the capability using
- 09.2009 – 12.2010 The best and the most effective technologies of LFG utilization – handbook, training and capacity building
- 07.2011 – 12.2012 Pre-feasibility study as a milestone in decision process. Creating of computer support system for economic assessment of LFG projects

In 2013 the new GMI project will start:

- Polish Landfill Gas to Energy Consortium as a Platform for Capacity Building and Projects Development

The dynamic of total volume of methane, volume of captured and commercially utilized methane and output in Poland over the years 2001-2011

	Year										
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Total volume of methane (mln m ³ /year)	743,7	752,6	798,1	825,9	851,1	870,3	878,9	880,9	855,7	834,9	828,8
Volume of captured methane (mln m ³ /year)	214,3	207,3	227,1	217,2	255,3	289,5	268,8	274,2	259,8	255,9	250,2
Volume of used methane (mln m ³ /year)	131,5	122,4	127,8	144,2	144,8	158,3	165,7	156,5	159,5	161,1	166,3
Quantity of hard coal mines	42	42	41	39	33	33	31	31	31	32	31
Total output of hard coal (mln tons)	102,6	102,1	100,4	99,5	97,1	94,3	87,4	83,6	77,3	76,1	75,5

Effectiveness analysis of the support system for electricity generation from methane

- analysis adopted by the Ministry of Economy in June 2012
- to increase amount of methane capture and its efficient utilization in Polish hard coal mines

Recomendations

- the support system should be based on the same rules as for the analogous system for renewable sources of energy, without the obligation to produce energy in cogeneration
- increasing the value of the supplementary fee used in the present support system
- establishment of the support system for development and utilization VAM

Coal GMI projects

So far 2 projects under the GMI:

- 07.2008 – 08.2010 Detailed Characteristics of the Ventilation Air Methane Emissions from Ten Gassy Underground Coal Mines in Poland
 - Ongoing: the first feasibility study for cost effective methane degassing and capture ahead of mining operations to reduce methane emissions in Poland during mining
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Strategy for sustainable rural development, agriculture and fisheries for 2012-2020

- analysis adopted by the Council of Ministers in April 2012
- objective: to reduce greenhouse gas emissions from agriculture (mainly methane) and agri-food chain

Promotion of eco-agriculture :

- a guide for investors concerning biogas power plants
- under construction: another guide related to the exploitation of biogas power plants

Youth education in agricultural schools and in other professions related to renewable energy systems

Directions of development for agricultural biogas plants in Poland between 2010-2020

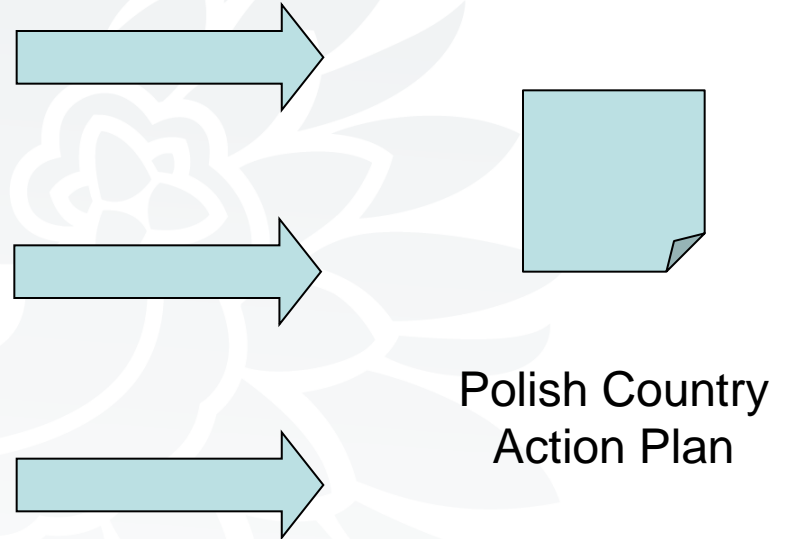
- the document adopted by the Council of Ministers in July 2010
- objective: to establish the system of promotion and support for manufacturing of agricultural biogas and its application for electricity and heat production

	2011	2013
agricultural biogas power plants	14	31
capacity	13,5 MW	34 MW

Country Action Plan



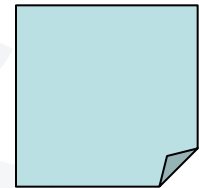
- all the sectors of the Global Methane Initiative
- all the actors of the polish economy (administration, industry, research institutes, NGOs)



Country Action Plan



- under preparation in the Ministry of Economy
 - **will try to analyse the potential and possibility of use the entire amount of captured methane in Poland**
 - will be coherent with Polish economy development and environment strategies
 - will contribute to the National Programme for Development of Low-Emission Economy, currently under preparation in the Ministry of Economy
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Polish Country
Action Plan

Thank you for your attention

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