

# Agriculture Update

## CHINA

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**Rural Energy & Environment Agency**

**Ministry of Agriculture, P. R. China**

**GMI Agriculture Subcommittee Meeting**

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# Agriculture

In 2005, 25.17Mt CH<sub>4</sub> emission from agriculture, 65.62% of total methane emission.

- Enteric Fermentation: 14.379Mt
- Rice cultivation: 7.926Mt
- Animal waste treatment: 2.864Mt

Emission source categories	Methane (10 <sup>4</sup> t)	Component (%)
Energy activities	1,543	34.71
Agricultural activities	2,517	56.62
Waste treatment	382	8.60
Land use change and forestry	3.1	0.07
<b>Total</b>	<b>4,445</b>	<b>100.00</b>

# Methane Reduction, Recovery, and Use Initiatives

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Enhancing waste treatment from the large scale animal operation and farm-scale, utilization the biogas, and reduce its' methane emission;

- Farm scale: 40 million households
- Large and medium biogas engineering: 72,000 projects
- producing a total of 15 billion cubic meters of biogas annually(60 MtCO<sub>2</sub> eq)

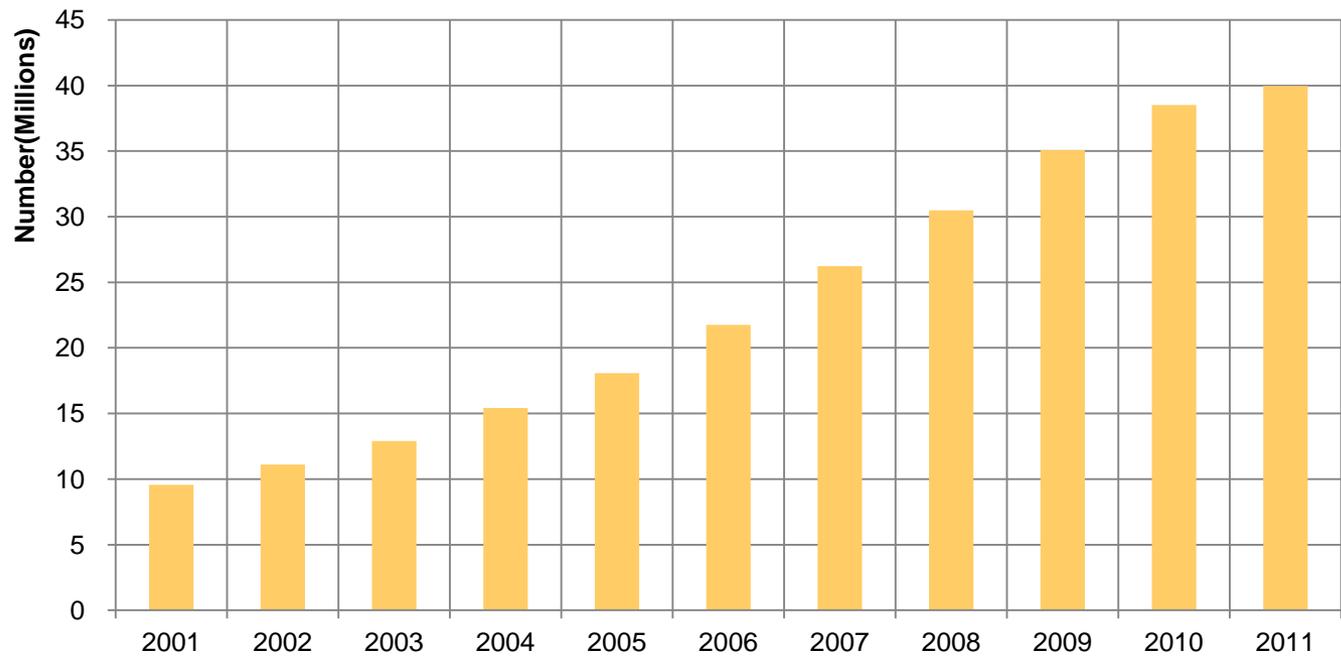


Figure: Farm scale biogas reactors change from 2001 to 2011

# Barriers/Challenges to Methane Reduction, Recovery, and Use

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- Incentive policies should be supplemented and improved for animal waste treatment and utilization .
- Methane reduction technologies require for enteric fermentation animal breeding.
- How to use bio-slurry utilization with limited farmland?
- How to maintain the farm scale biogas reactors working properly?

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# THANKS!