

Sustainable Biogas Market Development in Central and Eastern Europe

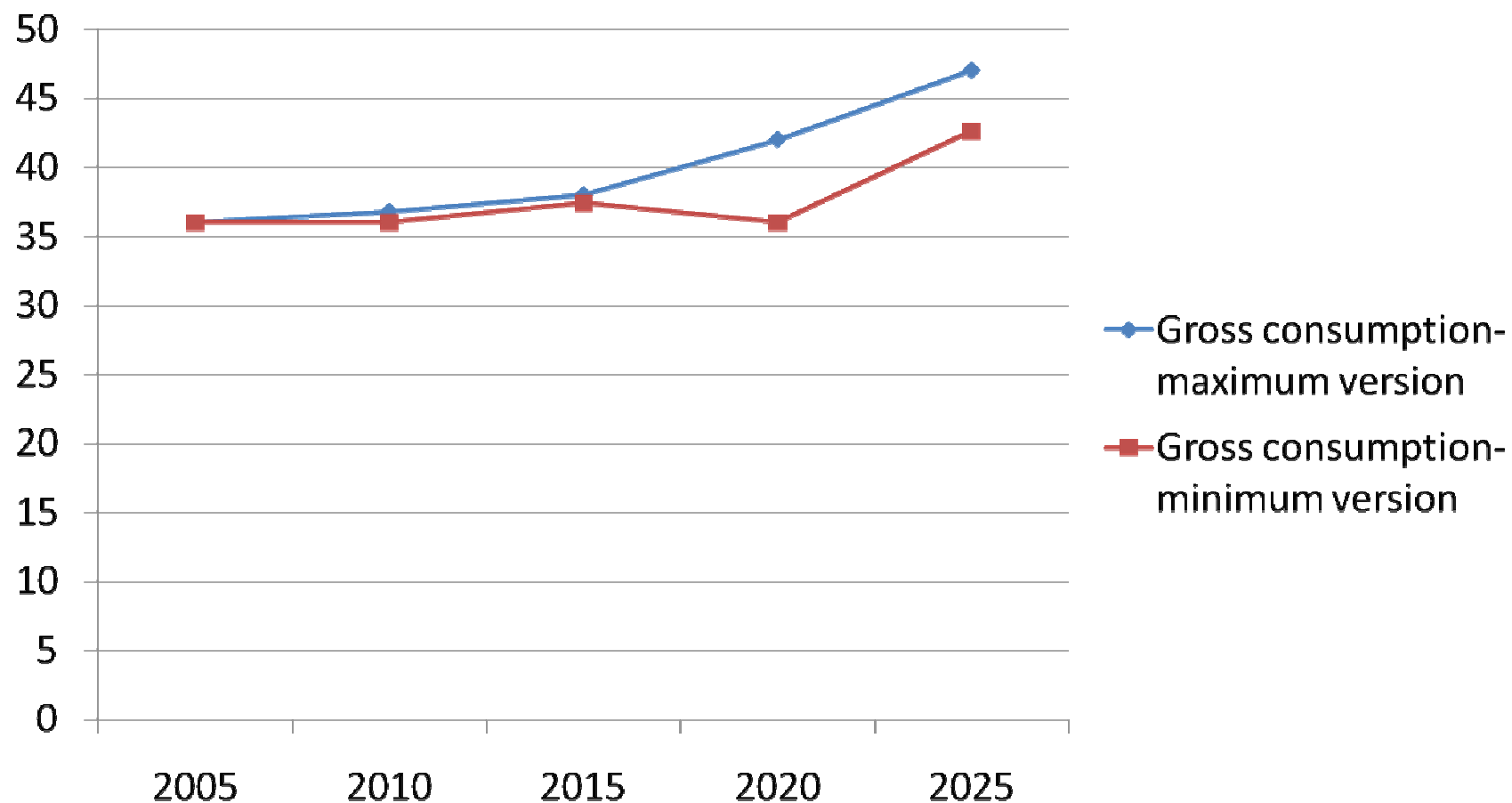


Biogas in Bulgaria

Energy mix

2010	Unit	Net generation	%
Nuclear	TWh	14.24	34.3 %
Thermal	TWh	17.43	41.9%
Renewables	TWh	6.1	14.7%
Cogeneration	TWh	3.8	9.1%
TOTAL	TWh	41.57	100%

Energy consumption



Tariffs

Electrical power station	Price /MWh
Power station up to 5MW, using biomass from forestry	BGN 255.51
Power station up to 5MW, using energy cultures	BGN 185.99
Power station up to 150 kWh, using biomass from animal farms and animal by-products	BGN 432.81
Power station from 150 kWh to 1 MW, using biomass from animal farms	BGN 405.61

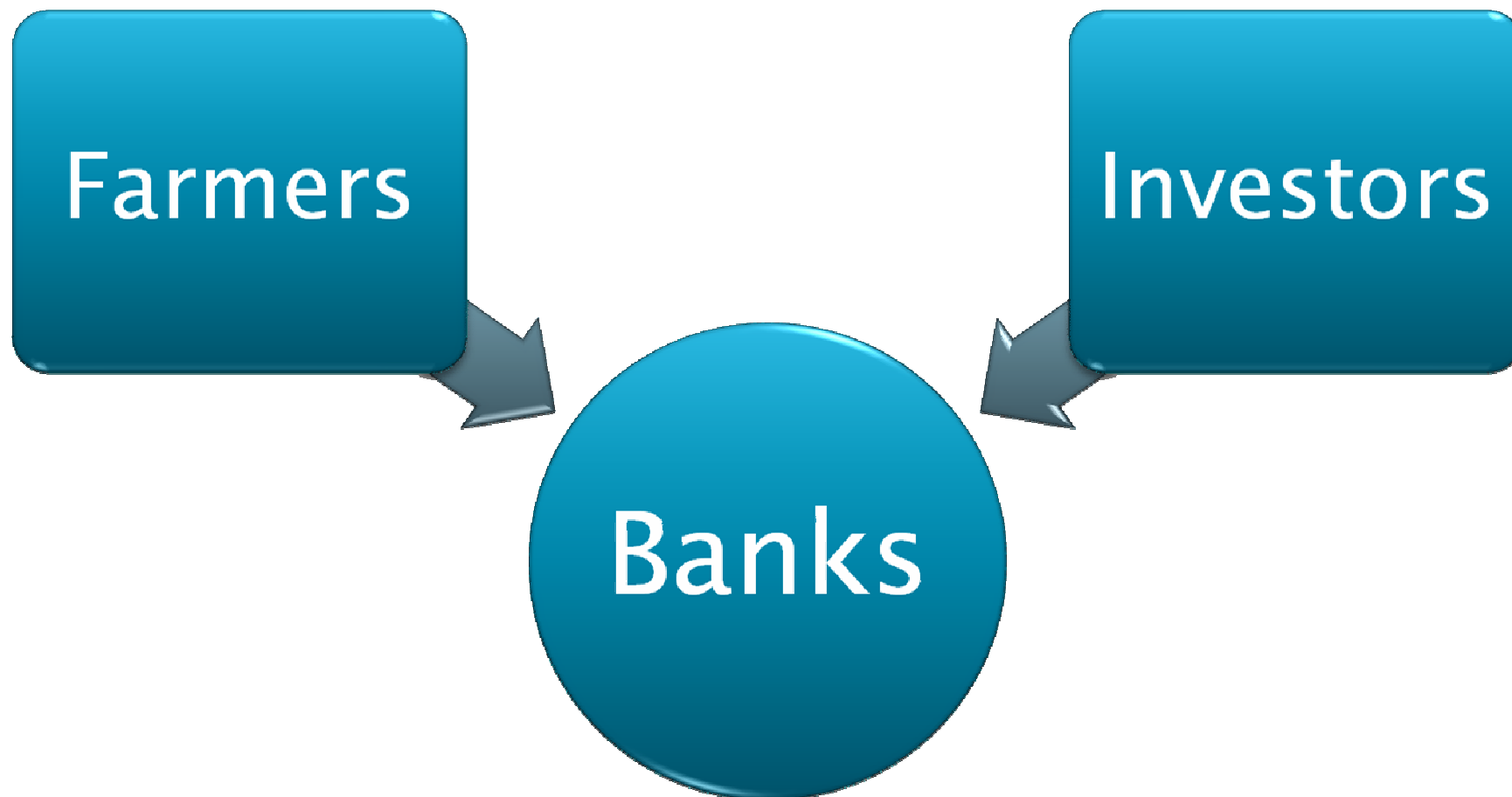
Sown areas

Culture	Crop (ha)
Wheat	10 422 172
Barley	1 814 682
Corn	3 359 948
Rice	118 817
Black sunflower	6 598 669
Rapeseed	2 387 216

Wastes from economic active groups

Economic groups	Waste delivered for recovery	Waste delivered for disposal	Exported	Total
Crop, livestock, forestry	219 501	92 784	–	833 089
Manufacture of wood products	68 272	8 504	8 022	90 781
Wastewater treatment	4 174	144 257	6 650	233 873

Funding



Funding

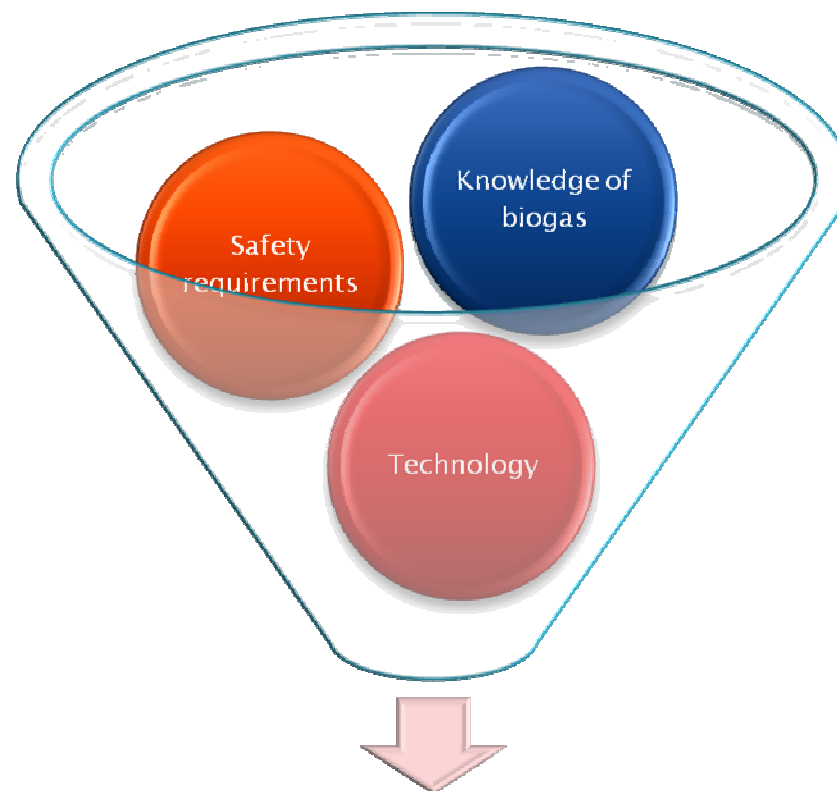
- ▶ European Program “Development of rural areas”
 - Requirements
 - Funding
 - Pros and cons

Funding

- ▶ European Program “Competitiveness”
 - Requirements

 - Funding

 - Pros and cons



Bottlenecks