Ukrainian Biogas to Europe – challenges and opportunities

Attila Kovacs

Kyev, 11th October 2018

EBA
European Biogas Association

What is the EBA?

- **Non-profit organisation** founded in 2009

- Covers biogas and biomethane from **anaerobic digestion** and biomass **gasification**

- Well-established **network and communication platform** for exchanging information and expertise in biogas and biomethane

- **Member of** EREF and EUFORES, co-operation with natural gas, renewable energy and waste handling associations

- Based in Brussels, **Renewable Energy House** (REH)

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26 countries – 36 National Organisations
58 Companies – representing >7,000 stakeholders

www.european-biogas.eu

Evolution of the number of biogas plants in Europe

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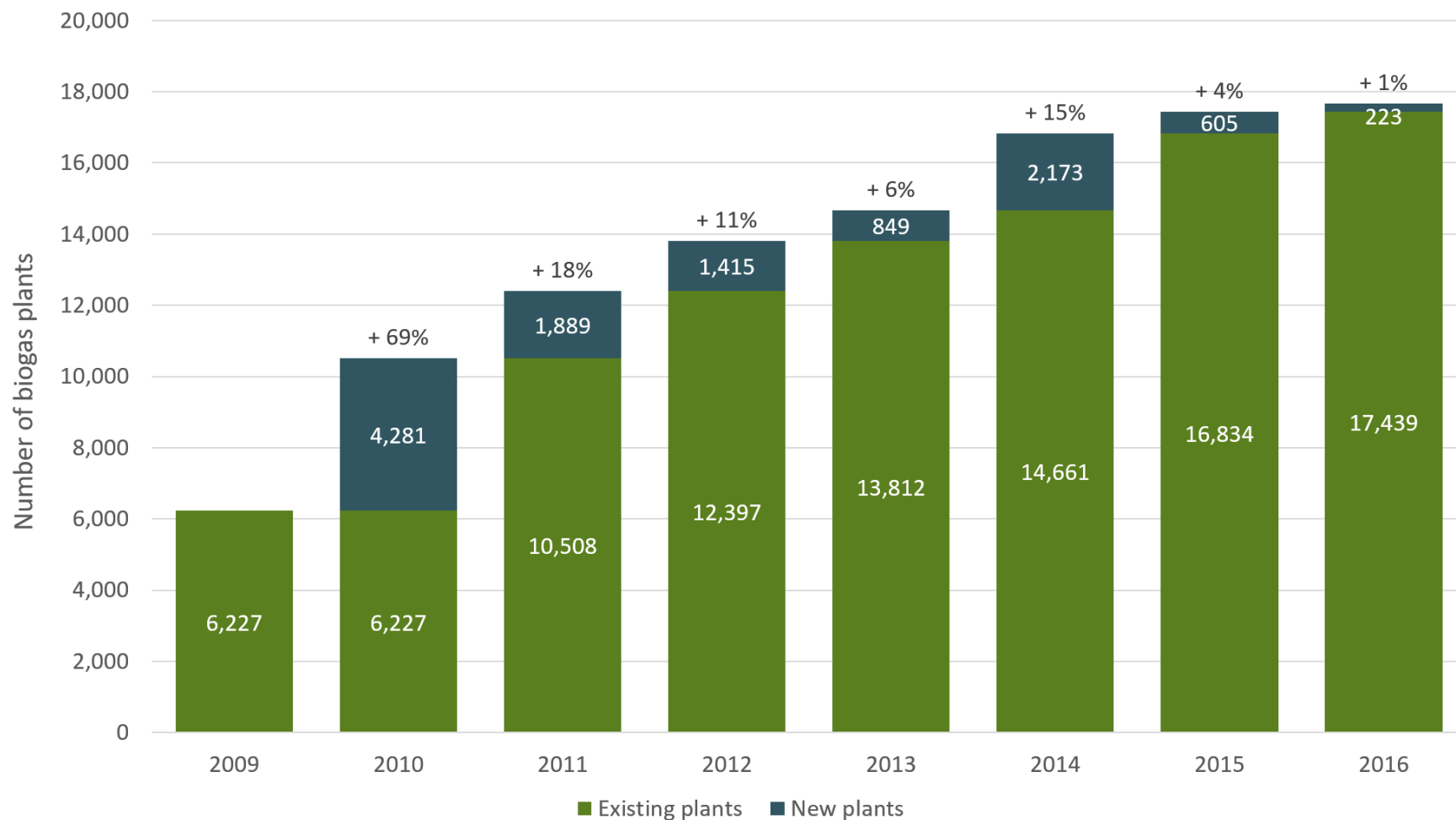
Evolution of biomethane production in Europe

Biomethane production (GWh)

Year	Existing production	New production	Growth
2011	752		
2012	752	1,527	+ 203%
2013	2,279	7,028	+ 308%
2014	9,307	2,269	+ 24%
2015	11,575	718	+ 6%
2016	12,293	4,971	+ 40%

■ Existing production ■ New production

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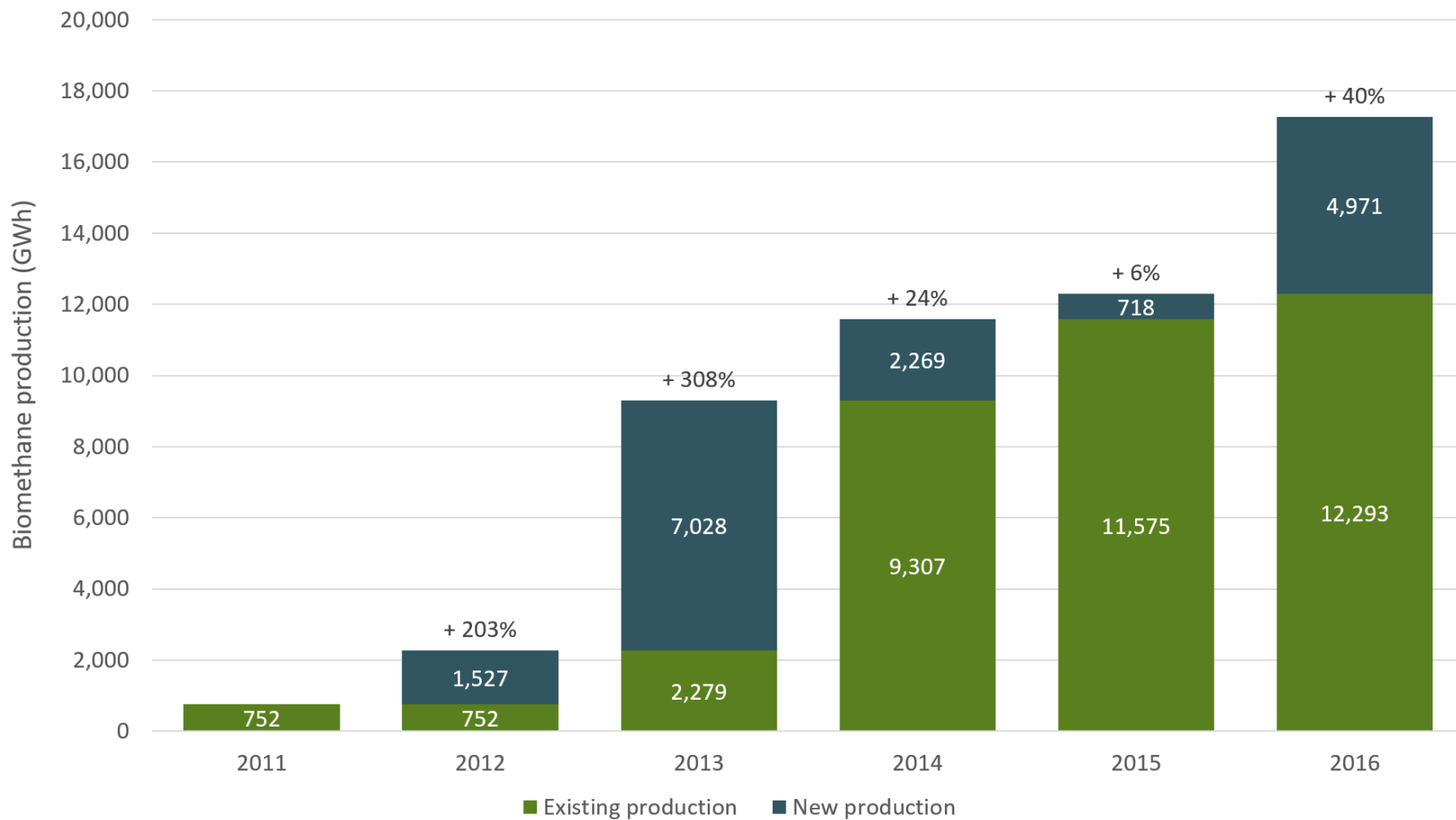
Basic statistical numbers

Indicator	Unit	Value	Share
Number of anaerobic digestion plants		17.662	
Number of biogas upgrading plants		503	2,8%
Total biogas production	ktoe/year	16.660	
Total biogas production	GWh/year	193.756	
Estimated biomethane production	GWh/year	17.264	8,9%
Biomethane used as vehicle fuel (appr.)	GWh/year	2.070	12,0%
Gross electricity production	GWh/year	62.704	

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Biomethane shares
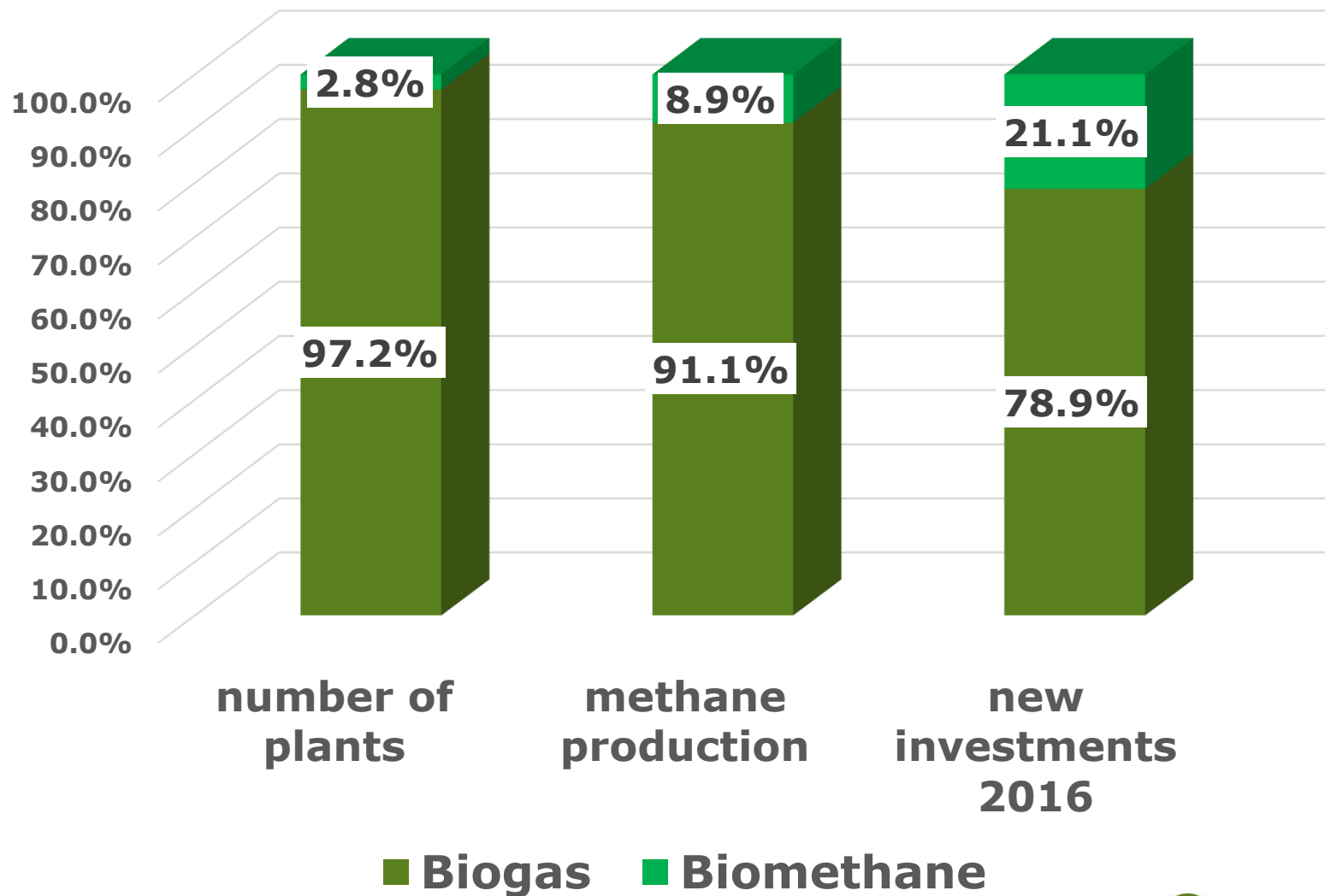
Short-medium term possibilities

- **Physical cross-border transactions** through the natural gas export pipelines,
- **Following the rules of natural gas transportation**,
- **Guarantee of Origin** – through registration of the producer and consignments with one of the operating biomethane registries,
- **Certification of sustainability** (GHG emission characteristics) by one of the EU recognised schemes,
- **Market:** customers accepting price premium voluntarily (no government subsidies).
- **Every project to be handled separately**

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- ❑ **National biomethane registry** joining the European network of registries (GoO issuing bodies),
- ❑ **Mass-balancing** to replace documenting physical cross-border transactions,
- ❑ **Following the agreed rules of ERGaR**,
- ❑ **Guarantee of Origin** – through registration of the producer and consignments with the Ukrainian national biomethane registry,
- ❑ **Certification of sustainability** (GHG emission characteristics) by one of the EU recognised schemes,
- ❑ **Market:** customers accepting price premium voluntarily – potentially government support for consumption

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National biomethane registries

- Main function: **track, confirm and document the biomethane transactions** along the entire contractual chain by means of Guarantees of Origin

- **Independent, neutral, professional** organisations (subject to independent audit controls)

- Established through government actions *or* voluntary cooperation of market players (preferably with government mandate)

- Serving as "**lighthouse**": administrative support in meeting regulative requirements, guidance/assistance to potential biomethane investors

- Assisting production and trade through **building market confidence**

- Facilitating **cross-border trade** through the network of biomethane registries (ERGaR)

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European Renewable Gas Registry (ERGaR)

❑ **ERGaR aisbl** (non-profit international organisation) established 28th September, 2016 in Belgium

❑ Network of national biomethane registries **www.ergar.org**

❑ **20 members from 11 countries**

❑ **ERGaR RED** - biomethane specific voluntary scheme established and operated by ERGaR aisbl

❑ **Function: mass balancing of biomethane** distributed along the European natural gas network with transfer of related sustainability certification

❑ **Core documents: Guarantees of Origin** issued by the national biomethane registries

❑ **In December 2017 ERGaR RED applied for recognition by the European Commission** under the RED as a voluntary scheme

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Source: Sofia Nordström, FordonsGas Sverige AB

Велике спасибі за вашу увагу!

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Renewable Energy House
Rue d'Arlon 63-65
B - 1040 Brussels

+32 24.00.10 – 89
kovacs@european-biogas.eu
www.european-biogas.eu