

IrBEA Bioenergy Webinar Series 2020

Webinar 11

Biogas – An update from a European perspective

Wednesday 9.30 - 10.30am 18th November



irbea

“Working Towards a Sustainable Energy Future with Bioenergy”

- **THE VOICE OF THE IRISH BIOENERGY INDUSTRY, WORKING ON BEHALF OF:**
- **BIOMASS, BIOGAS, BIOFUELS, BIOCHAR, WOODFUELS & ENERGY CROP SECTORS.**
- **BECOME A MEMBER AND FIND OUT MORE AT WWW.IRBEA.ORG**



Webinar No 11 – Agenda

- Opening by Chair – Seán Finan (seanfinan@irbea.org) - IrBEA CEO.
- Presentation by Harmen Dekker, Director, European Biogas Association.
- Panel Discussion including Noel Gavigan IrBEA Technical Executive
- Webinar attendees can submit questions through the Q & A tab at the bottom of the screen and we will endeavour to answer as many of your questions as possible.

IrBEA Bioenergy Webinar Series

Series running successfully – fortnightly on Wednesday’s 9:30am – 10:30 am

Webinar No 8: Policy & Actions needed to mobilise a Biogas Industry

Webinar No 9: Potential for Small Scale AD on Irish Farms

Webinar No 10: Digestate from Biogas as a Biofertiliser

Recordings and presentation from both webinars and all previous webinars are available on our website www.irbea.org

We are currently planning the next number of webinar and programme into 2021

If any members or stakeholders would like to present please contact seanfinan@irbea.org or teresaobrien@irbea.org



Webinar No 12 – Save the date

- Date: Wednesday 02nd December 2020
- Time: 9:30am – 10:30am
- Topic and Speakers: Representative from the World Bioenergy Association
- Full details will be published through our social media and communication channels.
- We thanks you for joining this morning and we hope you can join us for our next webinar.

Webinar No 11 - Introduction

- Significant potential for an Irish mainstream Biogas Industry
- This webinar will address the latest developments in the biogas sector across Europe.
- Irish Bioenergy Association is a member of the European Biogas Association (EBA)
- Overview of Biomethane market developments across Europe
- The latest policy developments at a Brussels level
- Important role of biogas / biomethane in decarbonising heat, electricity and transport across Europe.

Webinar No 11 – Our Speaker

Harmen Dekker has worked for almost 15 years within the sustainability sector and is devoted to the mitigation of climate change. He has built his career in the water and gas sector, where he has held different management positions. He joined the EBA after 5 years of service at DMT Environmental Technology. As manager for business development, he worked on the expansion of the biogas sector in new geographic regions. During those years, he also focused on the implementation of new techniques for valorising biogas, such as bio-LNG. These responsibilities included the analysis of future opportunities to produce bio-methanol and bioplastics.



Biogas – An update from a European perspective

18th November 2020

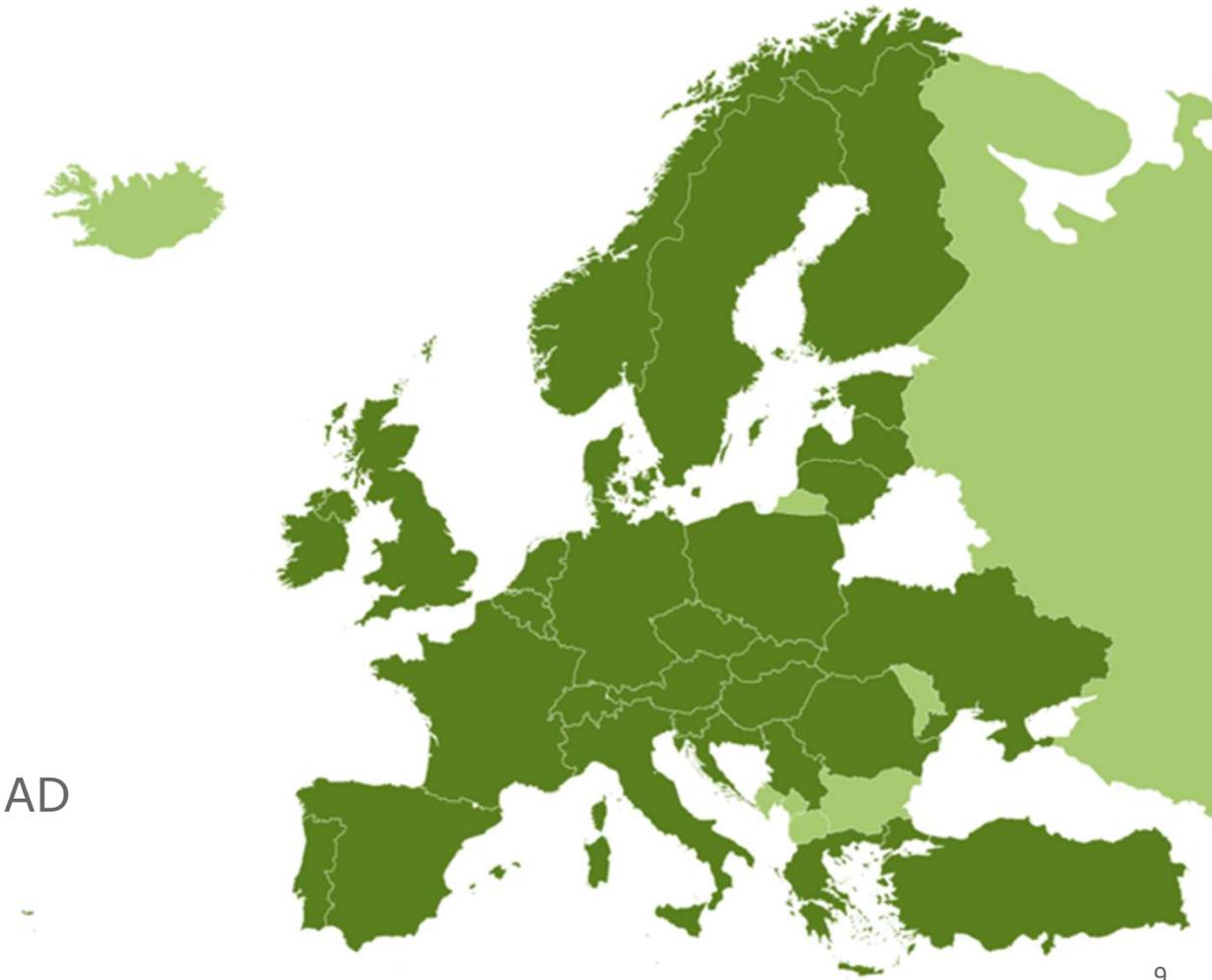
Webinar 11 – IrBEA Bioenergy Webinar Series 2020

Harmen Dekker

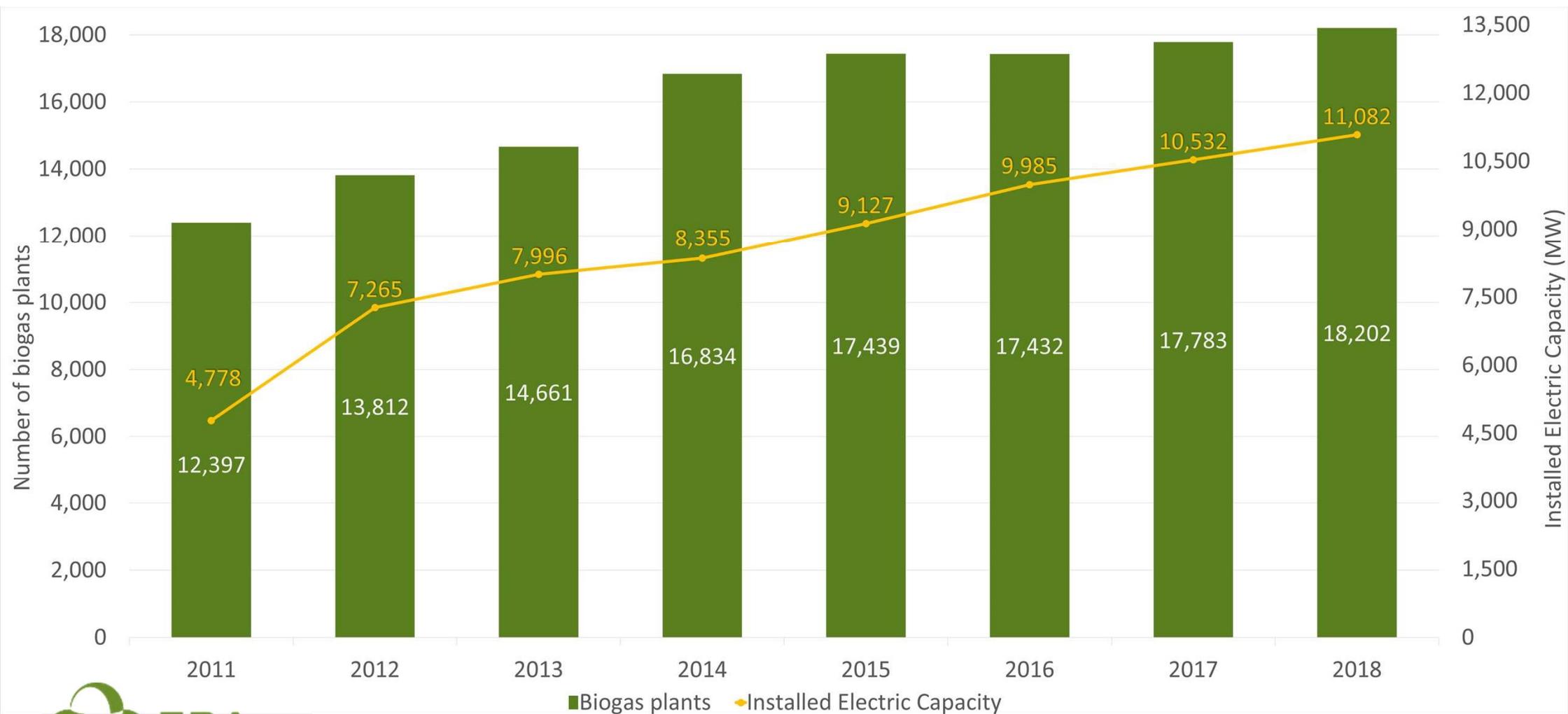


EBA

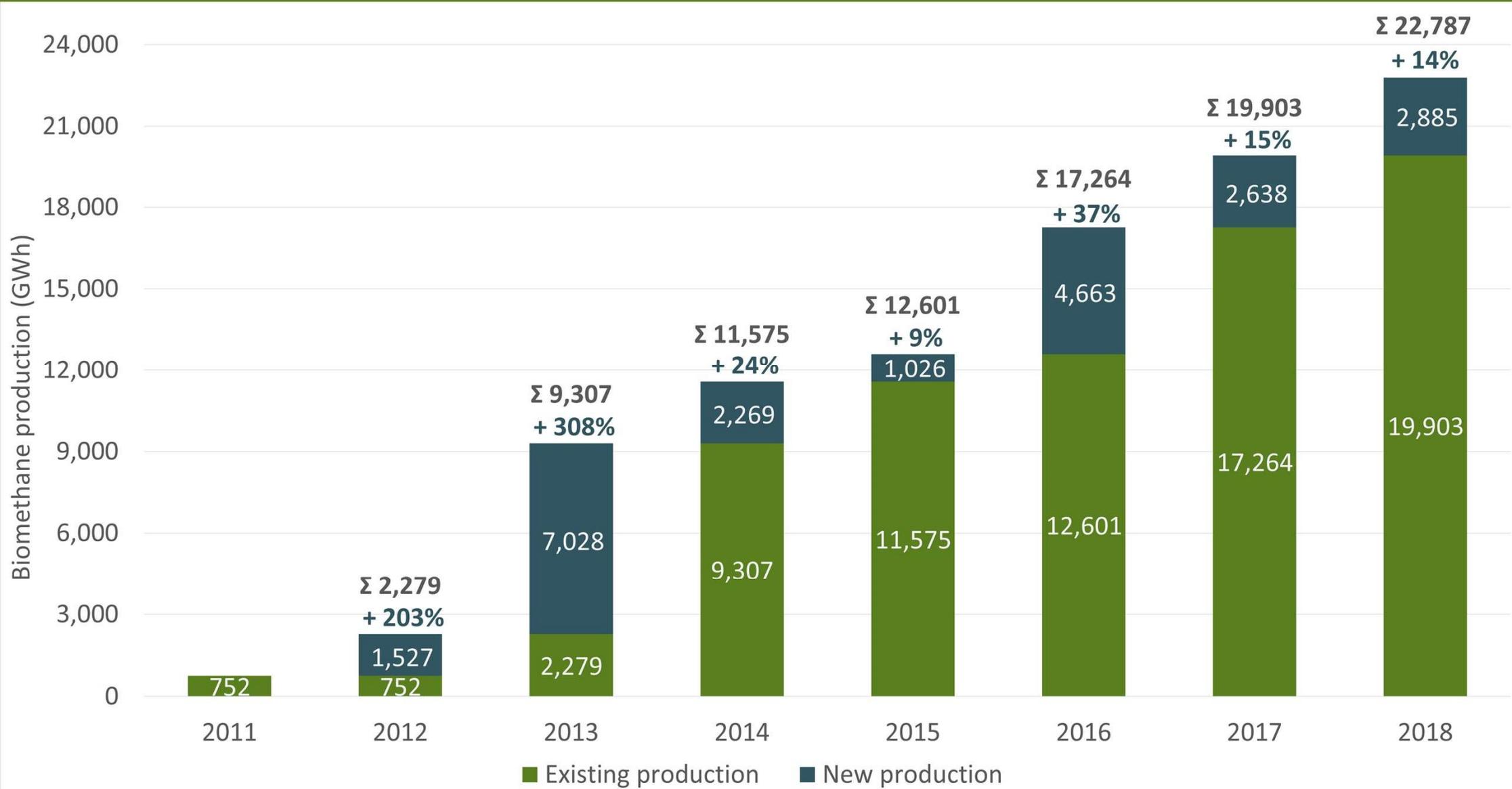
- 38 National Biogas Associations
- ~ 100 Companies and research institutes
- 28 countries in Europe
- >7000 stakeholders
- >70,000 Jobs – potential of 200,000–275,000 direct jobs in AD by 2050



Development of the total biogas IEC in Europe set against the total number of biogas plants



Development of European biomethane production in GWh



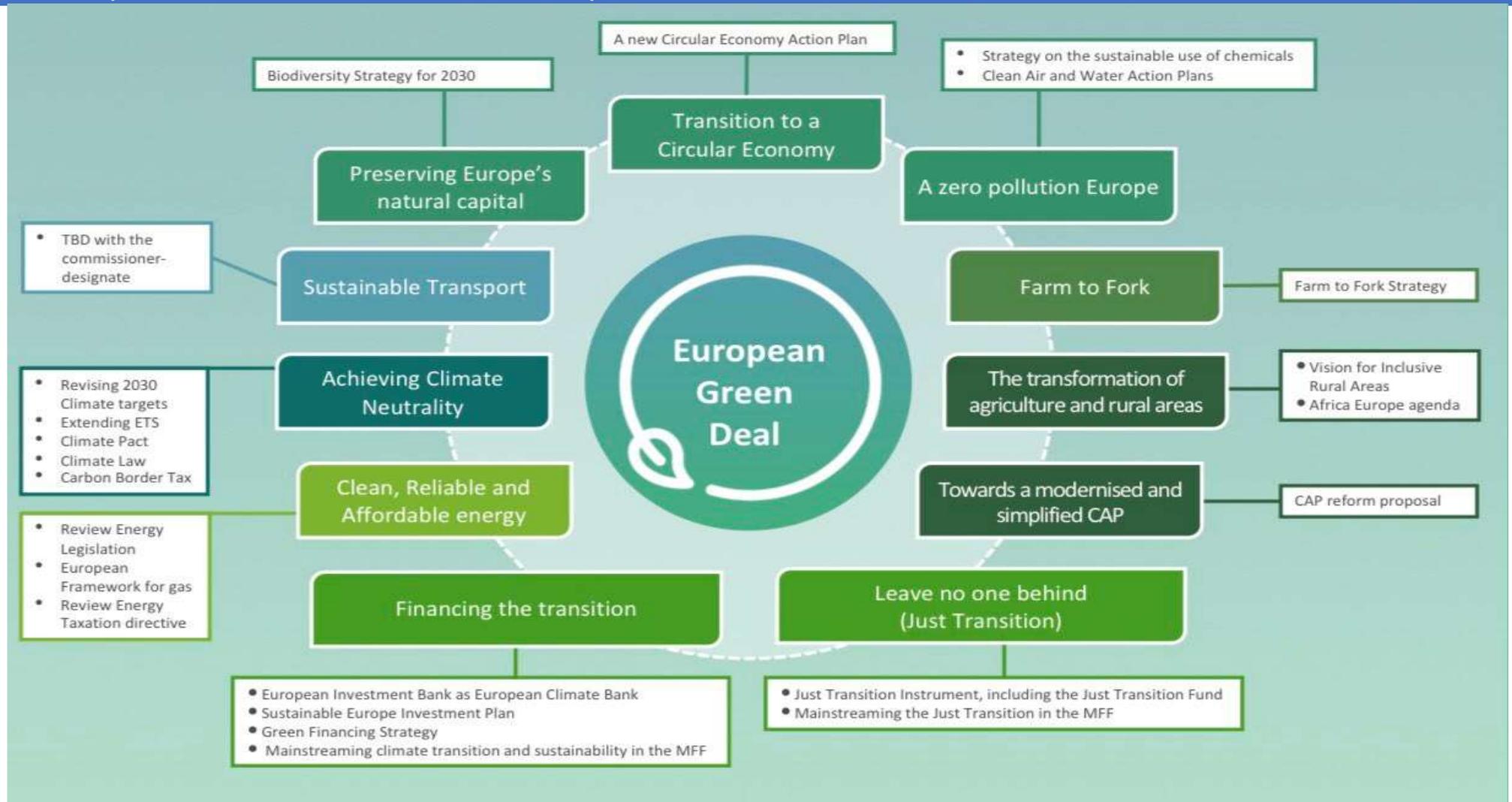
EU's climate ambition

- 2020 targets (set in 2007, in legislation in 2009) – headline targets for or smart, sustainable and inclusive growth

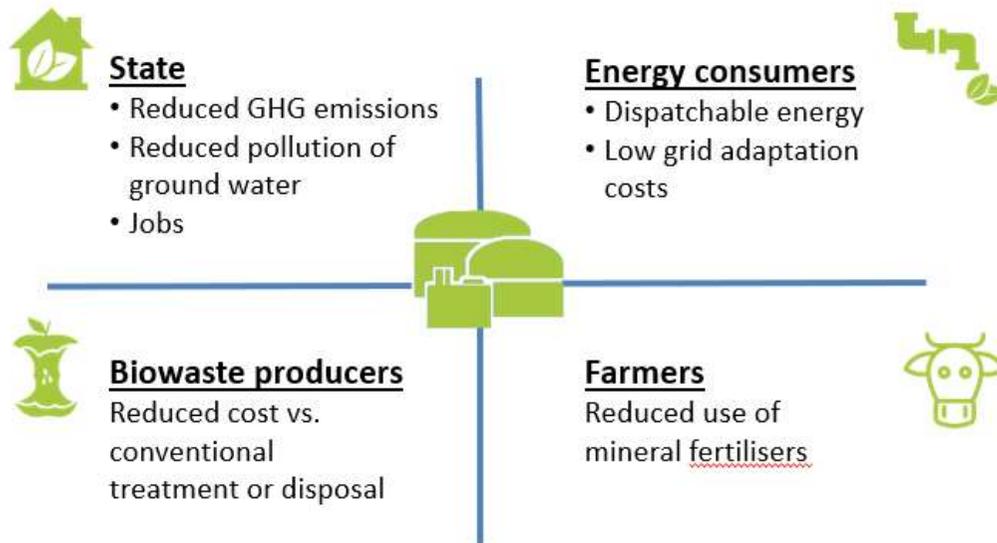


- 20% cut in greenhouse gas emissions (from 1990 levels)
 - 20% of EU energy from renewables
 - 20% improvement in energy efficiency
- 2030 targets (under review) - driving progress towards a climate-neutral economy
 - 55% cuts in greenhouse gas emissions (from 1990 levels)
 - At least 32% share for renewable energy – *under review*
 - At least 32.5% improvement in energy efficiency – *under review*
 - 2050 – climate neutrality – net zero greenhouse gas emissions

European Green deal – on the way to the first climate-neutral continent



What is the contribution of biogas?

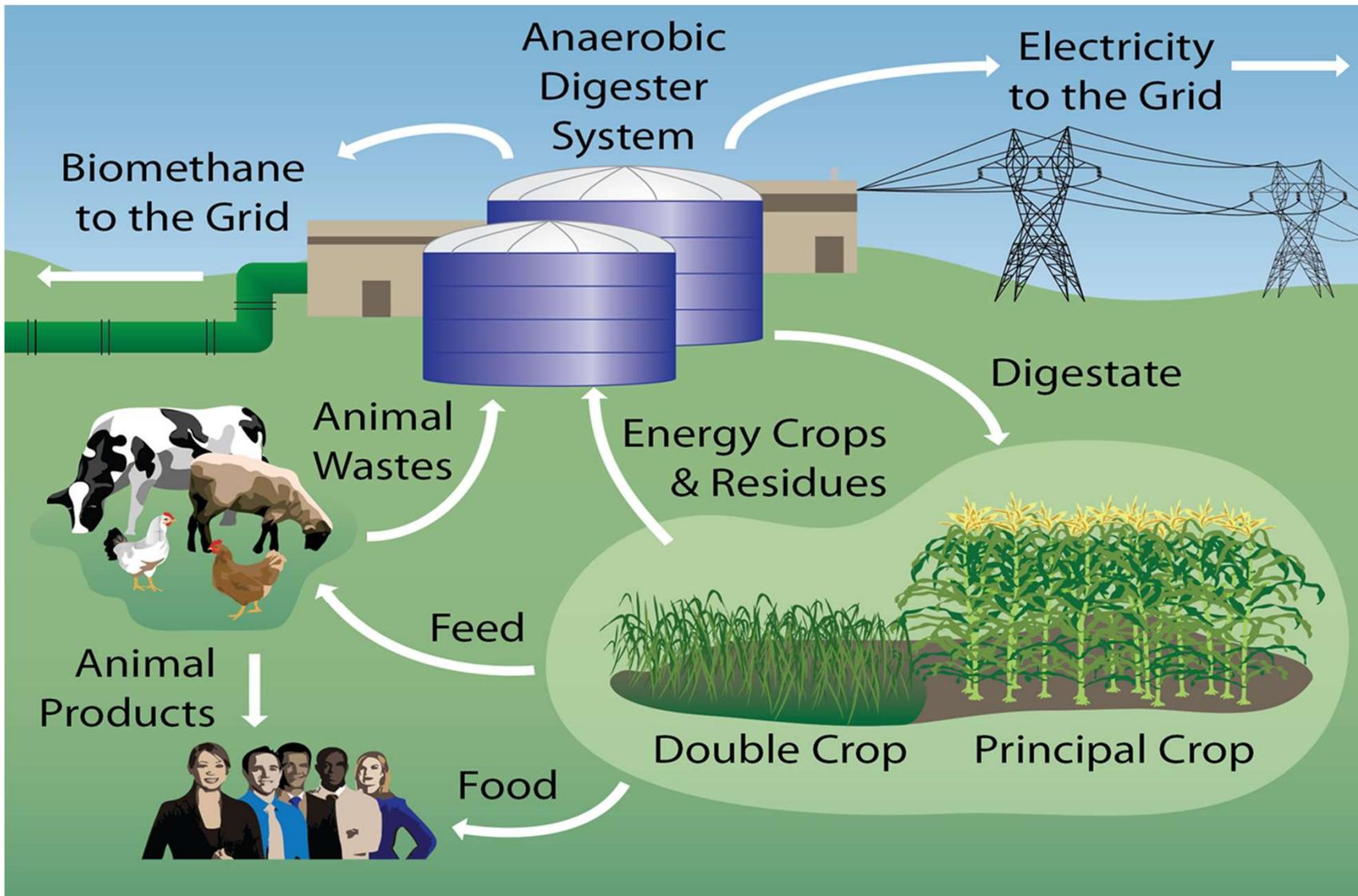


But we must also value:

Soil health
Biodiversity
Self sufficiency
Storability
Flexibility
Etc.

Source: ENEA Consulting, Revue des externalités positives de la filière biométhane, 2019

Example of sustainable bioenergy production on farms



- Sequential cropping: harvesting two crops instead of one on the same field in a single year
- Nutrients being recycled back to the field through biogas digestate

Source: CIB – Consorzio Italiano Biogas

The future of gas in carbon-neutral Europe



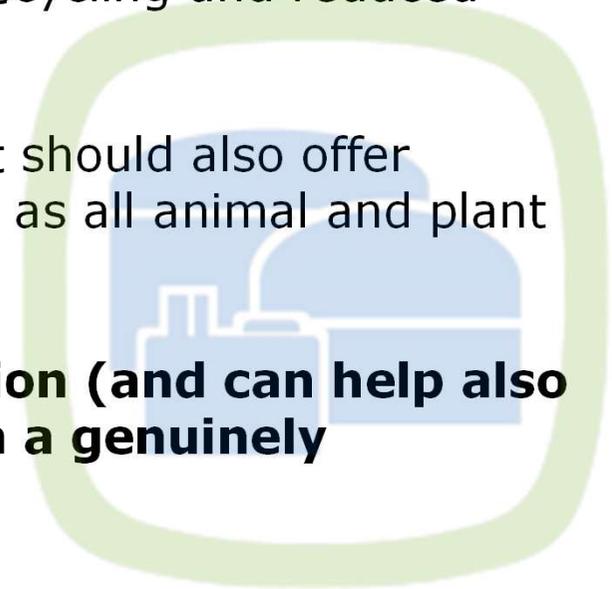
Source: Navigant 2019

- The biomethane potential in Europe by 2050: 1170 TWh
- Expectation by 2030 with right policies in place: 370 TWh
- Main uses: heavy transport & maritime transport

Source: Gas for Climate 2020

Conclusions

- Important to **adopt a whole system approach**: biogas is more than energy – must understand the synergies with agriculture and a circular economy
- The scope of **sustainability** should be kept broader that encompasses not only carbon emissions reduction but also other environmental, economic, social and public health benefits such as better air quality, resource efficiency, waste recycling and reduced resource depletion, etc.
- **Bioeconomy** should not only provide renewable energy, but it should also offer solutions for healthy and secure ecosystems for people as well as all animal and plant species.
- → **Biogas will play a key role in helping Europe's transition (and can help also other parts of the world!) to a clean energy system with a genuinely resource-efficient and circular economy.**



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