

European Renewable Gas Registry (ERGaR)

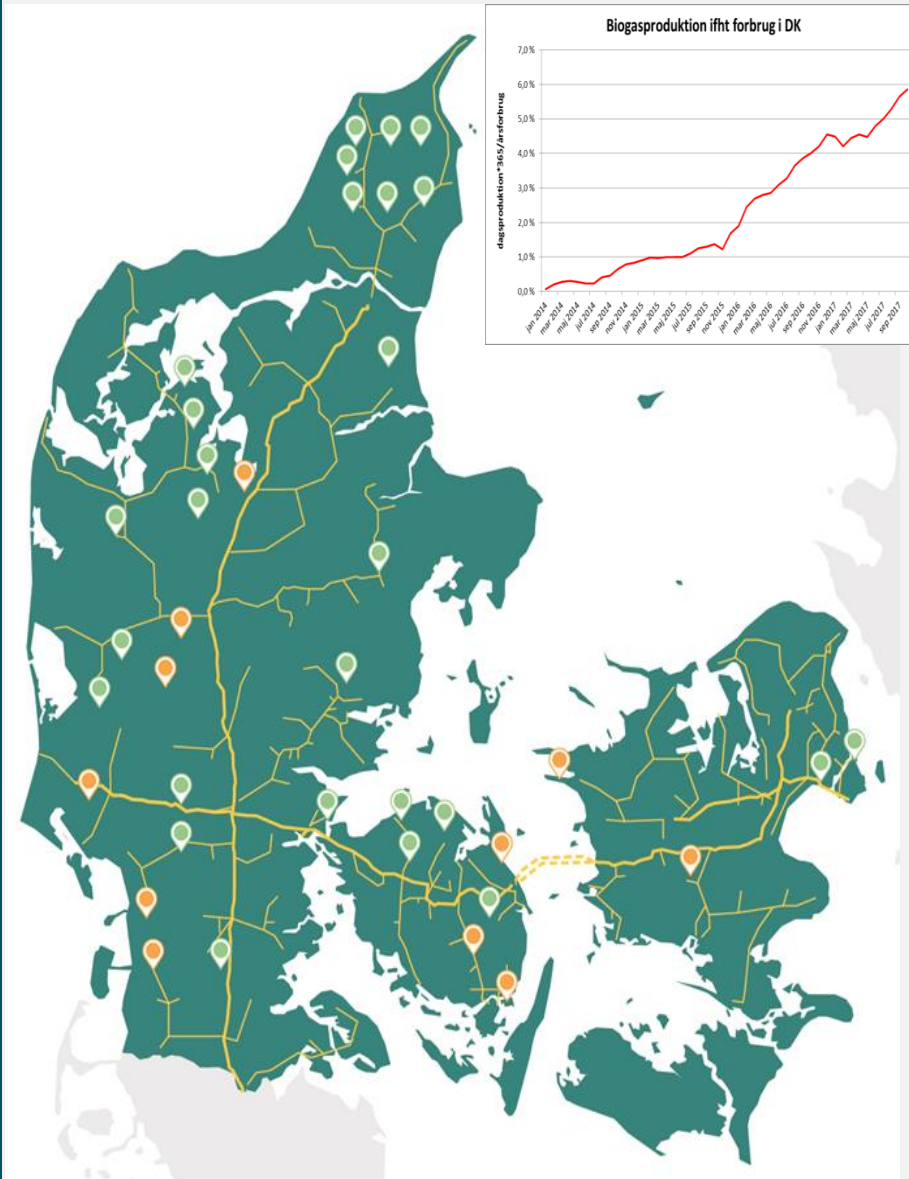
Jeppe Bjerg, ERGaR President



European Biomethane Conference
Dublin
20 September 2018

BIOMETHANE CERTIFICATES IN DENMARK

- 31 plants grid connected
- 10% of gas consumption in 2019
- Network reinforcement & planning
- Support framework in place
- Biomethane certificate model
- Used in transport, heating, industry
- Cross border trade
- Supporting a European solution



Vision & Mission



- **Vision:**
- Renewable gas will be traded cross border in an increasingly integrated European market through the natural gas network reaching all end customer segments.
- **Mission:**
- Building on national registries to establish an independent, transparent and trustworthy documentation scheme for cross border transfer and mass balancing of renewable gas injected into the European natural gas network securing the exclusion of double sale and double counting.
- **Status:**
- Application submitted to DG Energy for RED compliant scheme for cross border transfer and mass balancing of biomethane as transport fuel
- Developing hub for other voluntary markets
- More info: www.ergar.org

Why do we need cross-border trade of renewable gas – and a platform?

- **New renewable gas projects can be developed** where resources are available and costs are low.
- **Existing gas infrastructure is available to contribute** to European transition to a sustainable energy system
- **Renewable gas can be made available to gas consumers** throughout Europe - having excellent GHG characteristics and being competitive renewable fuel in e.g. transport.
- **Scale and liquidity** to green gas market development
- **Transparency, transparency, transparency**

Three pillars of ERGaR RED

1. **European natural gas network** (consisting of the transmission and distribution systems) **treated as single logistical facility** with regard to injected biomethane.
2. **Mass balancing of injected and withdrawn biomethane consignments** within the European natural gas network.
3. **Sustainability verification** (prior to grid injection) and **cross-border transfer of sustainability claims**.

ERGaR RED scheme

- ✓ **ERGaR aisbl** (non-profit international organisation) established 28th September, 2016 in Belgium
- ✓ **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: Biomethane Proofs of Origin** issued by the national biomethane registries
- ✓ **ERGaR RED seeks recognition by the European Commission** under the RED as a voluntary scheme

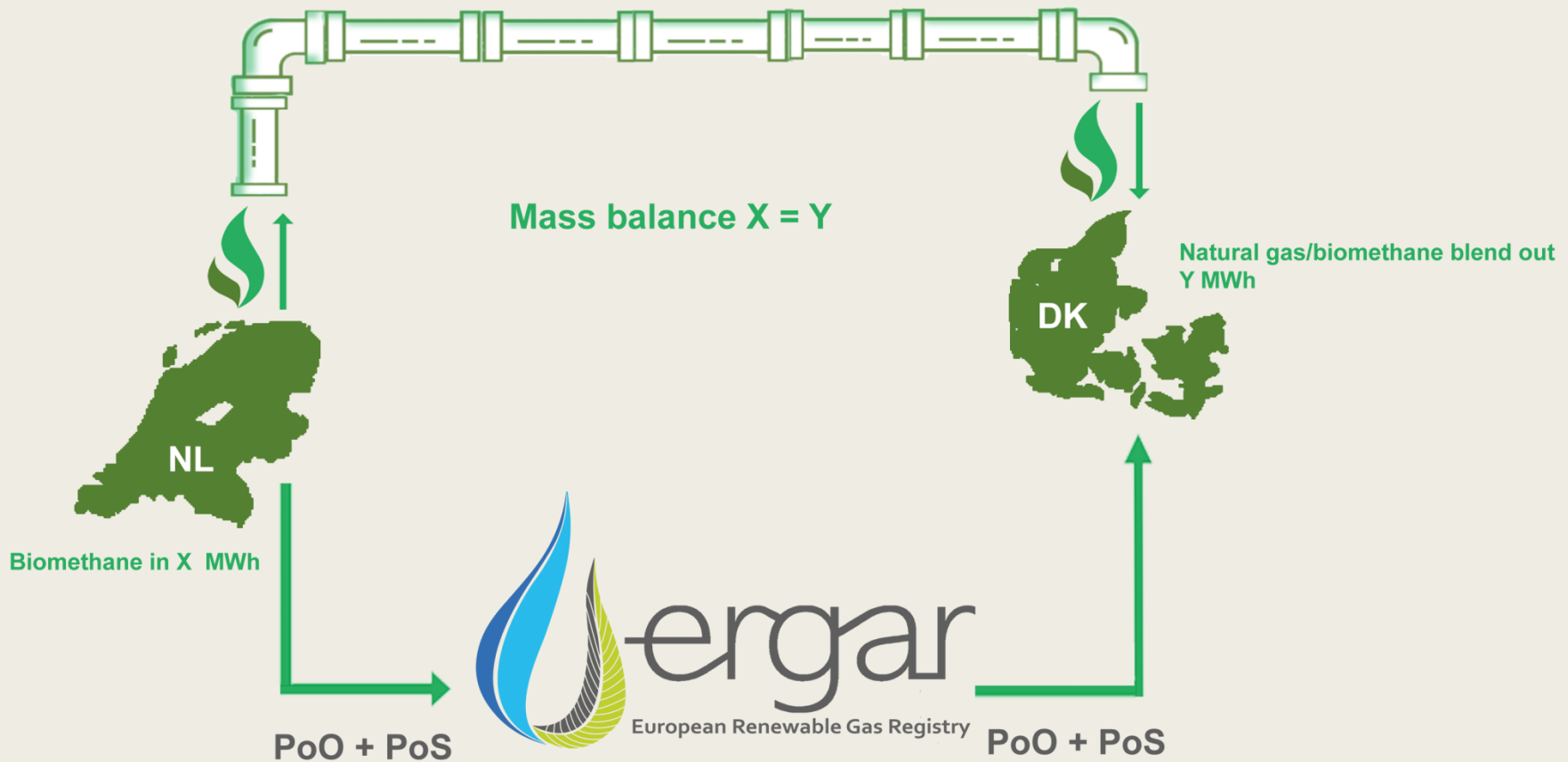
RED vs ERGaR mass balancing

RED Recital (76):


















*“According to the mass balance method of verifying compliance, there is a **physical link between the production** of biofuels (and bioliquids) meeting the sustainability criteria **and the consumption** of biofuels (and bioliquids) in the Community.”*

The physical link between the production and consumption of biomethane is the natural gas network, the administration must ensure the balancing of every injected consignment with the corresponding withdrawn consignment.

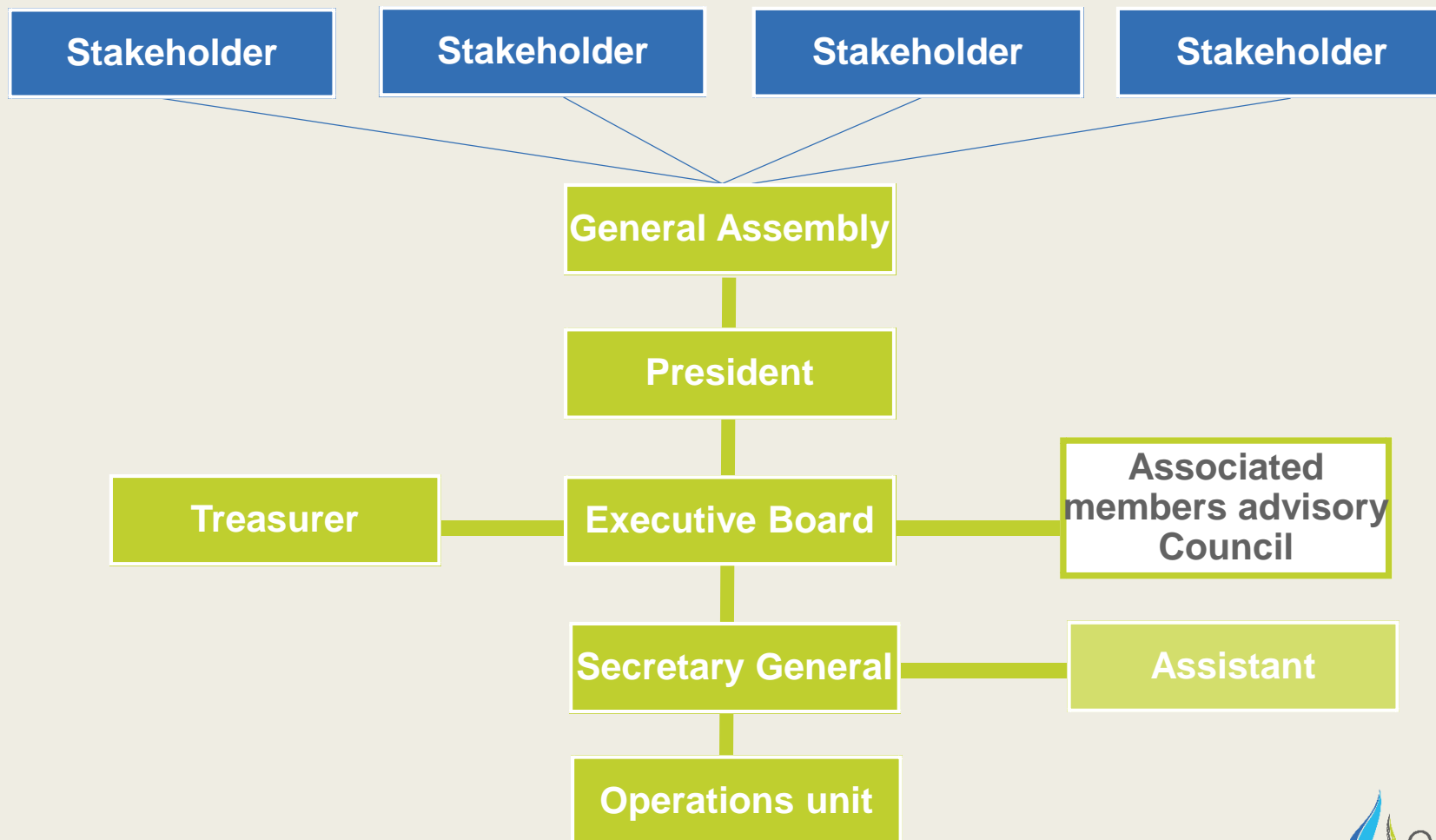
Mass balancing by ERGaR



Members

Austria	AGCS Gas Clearing & Settlement AG	(R)	
Belgium	European Biogas Association (EBA)		
Germany	German Energy Agency (dena) Fachverband Biogas (FvB)	(R)	
	bmp greengas		
	Landwärme GmbH		
Denmark	Energinet	(R)	
	NGF Nature Energy		
France	Gas Réseau Distribution France (GrDF)	(R)	
Ireland	Renewable Gas Forum Ireland (RGFI)		
Italy	Consorzio Italiano Biogas (CIB)		
	Vertogas	(R)	
Netherlands	AFS Energy		
	ACT Commodities		
	STX Services B.V.		
UK	Renewable Energy Assurance Ltd. (REAL)	(R)	
Switzerland	Swiss Association of Gas Industry (VSG)	(R)	
	Energie 360°		

Organisation chart



Summing up

ERGaR will:

- ✓ treat the European gas grid as a **single logistical facility**
- ✓ **rely on national biomethane registries** as issuing bodies for guarantees of origin
- ✓ apply the **mass balance approach** for transferring sustainability characteristics of biomethane consignments
- ✓ **avoid double counting and double selling**
- ✓ develop schemes **for transport** and **for other end uses**
- ✓ expand to **other renewable gases** as these matures

THANK YOU

Jeppe Bjerg
President

European Renewable Gas Registry
www.ergar.org

