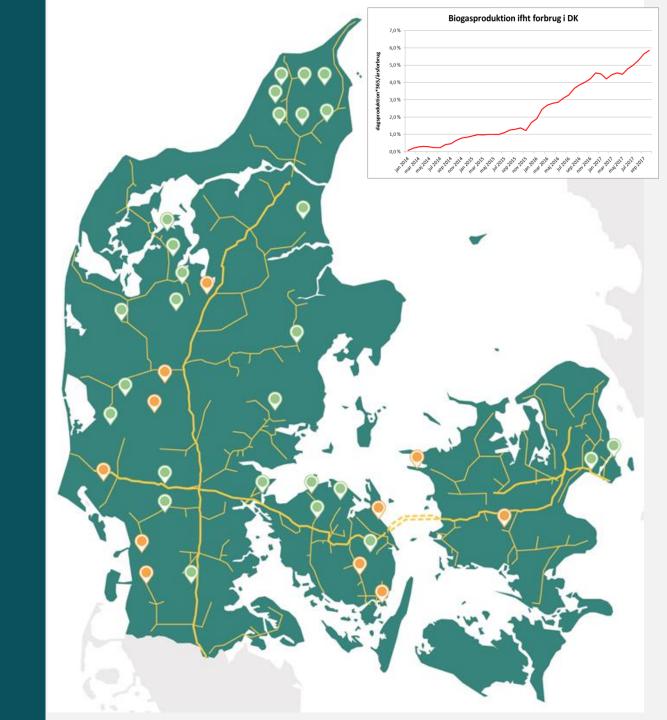


## BIOMETHANE STATUS

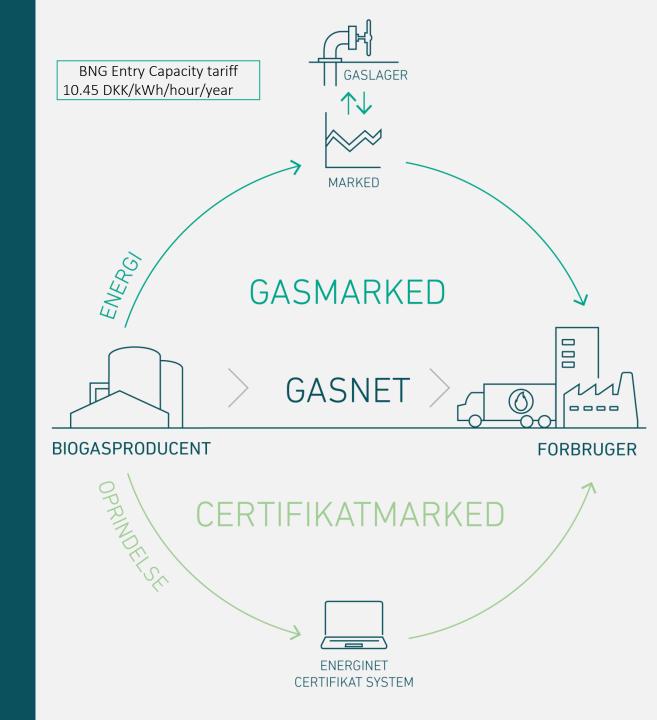
- 1st commercial plant grid connected in 2014
- 28 plants grid connected
- 6,7% December 2017
   up to 8-10% December 2018
- Biomethane in transmission grid
- Next green gases in pipeline
- Marked model being developed



## BIOMETHANE MARKET MODEL

Accomplished 2017: Improved framework for green gas on grid

- ✓ Strengthened stakeholder involvement
  - ✓ Green Gas Forum
  - ✓ DSO collaboration
- ✓ New certificate platform
- ✓ Biomethane end use applications
  - ✓ Emission Trading Scheme
  - ✓ Renewable Power GoO
  - ✓ Transport Fuel blending obligation
  - ✓ Voluntary market sector declaration
- ✓ Developing a european biomethane marked?
- ✓ Increased integration with gas marked shippers, balancing?



#### ENERGINET

# TRANSACTION DETAILS – CANCELATION REPORT (DEMO)

#### **Transaction details**

Transaction Type: Cancel

Transaction Date: 2017-01-23 15:23:22

Transaction Number: 2017012300002

Message to Receiver: -

From \_\_\_\_\_\_\_T

Account Holder: <u>DONG Energy Salg & Service A/S</u>

DB- DONG Energy Salg & Service

A/S- 643002406722100016

Domain: Denmark - Biogas

Street: Teknikerbyen 25

Postal Code and City: 2830 Virum

Country: Denmark

To

Name of Beneficiary: <u>Biogas seller</u>

Cancellation Purpose: Cancellation for heating

Consumption Period: 2017-01-01 to 2017-01-08

Country of Consumption: Denmark

Location of Beneficiary: Fyn

Usage Category: Commercial & Public use

Type of Beneficiary: Energy supplier

#### **Total**

Account:

Total MWh: 660
Total Biomethane-GO: 660



## BATCH INFO – CANCELATION REPORT (DEMO)

Certificate Number (From - To)	Volume Domain	Fuel, Technology S/TIssuing Dat	e Production Period	Production Plant (GSRN, Estimated Annual Production, name)	Trading Schemes	Support Schemes
6430024065559 1001000000000 9681 To 6430024065559 1001000000001	420 Denmark - Biogas	F01030200, S 2017-01-23	2017-01-01 To 2017-01-08	57151517910133175 15000000 MW Fredericia Spildevand A/S - 0001	Biomethane-	Production Support
6430024065559 1001000000001 0101 To 6430024065559 1001000000001 0340	240 Denmark - Biogas	F01030400, S 2017-01-23 T070000	2017-01-01 To 2017-01-08	64300240672200004 500000 MW Bio Plant No support	<sup>0</sup> Biomethane- GO	No support



## PLANTINFO — CANCELLATION REPORT (DEMO)

Production Plant Name: Fredericia Spildevand A/S - 0001

Production Plant GSRN: 571515179101331756

Domain of Production Plant: Denmark - Biogas

Estimated Annual Production, MW: 15000000 Date of Commissioning: 2011-08-01

Location of Production Plant: 7000 Fredericia, DK T070000 - Other Technology:

Fuel: F01030200 - Renewable/Gaseous/Sewage gas

Investment support:

Production support: Feed in subsidy (Production support)

**Production Plant Name:** Bio Plant No support

Production Plant GSRN: 643002406722000040

Domain of Production Plant: Denmark - Biogas

Estimated Annual Production, MW: 500000

Date of Commissioning: 2017-01-01 Location of Production Plant: 1234 City, DK

Technology: T070000 - Other

Fuel: F01030400 - Renewable/Gaseous/Gas from organic waste digestion

Investment support:

Production support:



## CROSS BORDER TRADE

Agreement with German Biomethane Register European Renewable Gas Registry



### BILATERAL AGREEMENT WITH DENA ON CROSS BORDER TRANSFER

Transparent and documented cross border transfer

#### Information on certificate:

- Country of origin
- Production period
- Plant
- Owner
- Production support
- Counting towards national goal

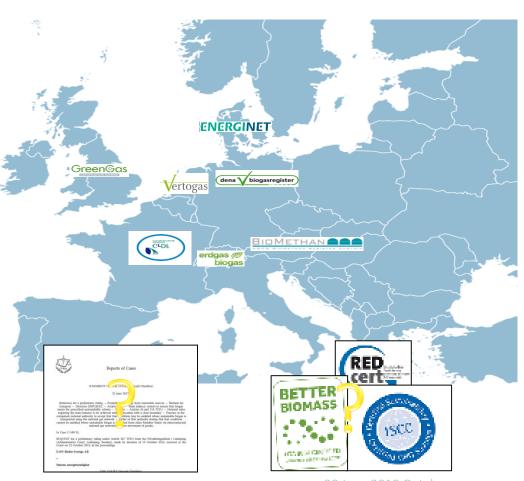


#### Cautious implementation

- Quarterly control of import/export volumes
- Annual control of plants and account holders in registers
- "Cradle to grave" test of a number of transactions
- Limited to certificates from Danish and German plants
- Primarily for voluntary markets



## EUROPEAN RENEWABLE GAS REGISTRY



#### Vision:

VE gas kan handles over grænser i et stadig mere integreret europæisk marked via gasnettet og kan anvendes I alle slutbrugersegmenter.

#### Mission:

På basis af nationale certifikatregistre er etableret et transparent og troværdigt dokumentationssystem for grænseoverskridende handel af VE gas tilført det europæiske gasnet. Et system der sikrer mod dobbelt salg og dobbelt måltælling af den grønne værdi.

#### Status:

- Ansøgt om frivillig ordning under RED for massebalance i Europæisk gasnet
- Arbejder på at udvide registre
- Etablerer transfer hub



## 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.



## **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

# QUESTIONS



Contact: Jeppe Bjerg, m: 2333 8897, e: jbg@energinet.dk