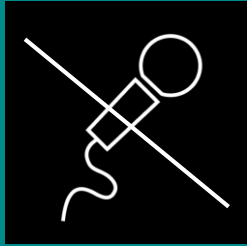


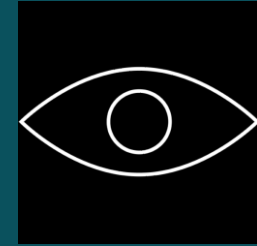
An abstract graphic on the left side of the page, composed of a network of teal lines forming various geometric shapes like triangles and polygons. A small circular icon with a stylized human figure is located in the top-left corner of this graphic.

SHIPPERS' FORUM

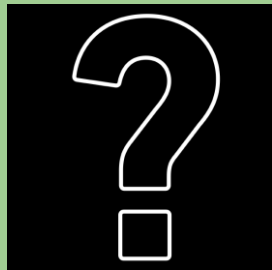
9 September 2021



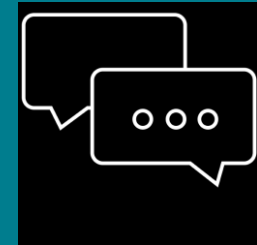
MUTE YOUR MICROPHONE,
WHEN YOU DON'T SPEAK



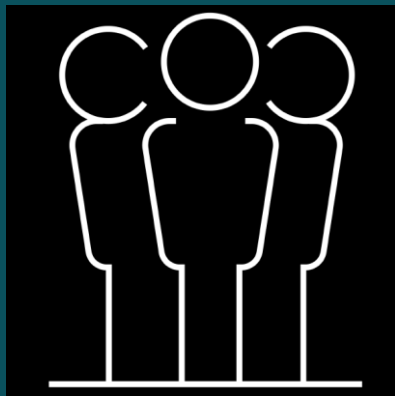
SWITCH ON YOUR CAMERA, ONLY
WHEN YOU ARE GIVEN THE
WORD TO SPEAK



USE THE 'RAISE HAND'
FUNCTION IF YOU WISH TO
COMMENT OR ASK A
QUESTION...

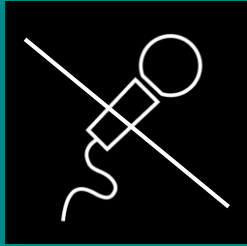


...YOU CAN ALSO WRITE YOUR
QUESTION USING THE CHAT -
THE HOST WILL ASK THE
QUESTION FOR YOU

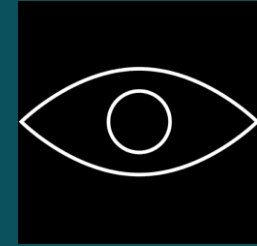


WELCOME

Clement Johan Ulrichsen, Energinet



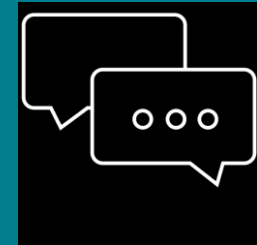
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QUESTION USING THE CHAT -
THE HOST WILL ASK THE
QUESTION FOR YOU

PROGRAMME

- 13.00 **Welcome**
Clement Johan Ulrichsen, Energinet
- 13.10 **Energinet System Operator**
Søren Dupont Kristensen, Energinet
- 13.30 **Danish Utility Regulator**
Peter Lyk-Jensen, Danish Utility Regulator
- 13.40 **The role of Gas in Poland's energy strategy and energy transformation**
Mateusz Mońko, Embassy of Poland in Denmark

- 14.10 **Baltic Pipe**
Status
Jeppe Danø, Energinet
Balancing
Christian Rutherford, Energinet
Update on tie-in
Christian Rutherford, Energinet
Gas Sourcing
Lasse Trøjborg Krogh, Energinet
- 14.40 **Tariffs**
Nina Synnest Sinvani, Energinet
- 14.50 **Bringing Norwegian gas to Europe**
Ove Braut Kallevik, Gassco

- 15.20 **Current market situation and coming winter**
Christians Meiniche & Camilla Mejdahl Mikkelsen, Energinet
- 15.40 **Gas Storage Denmark**
Iliana Nygaard, Gas Storage Denmark
- 15.55 **Closing remarks**
Clement Johan Ulrichsen, Energinet

FROM RULES TO TERMS AND CONDITIONS

General Terms and Conditions in public consultation until 29 September 2021



LONG TERM DEVELOPMENT PLAN 2022

Why?

- Framework for Energinet's planning
- Transparency & stakeholder involvement

Webinar in Danish on 23 September 2021

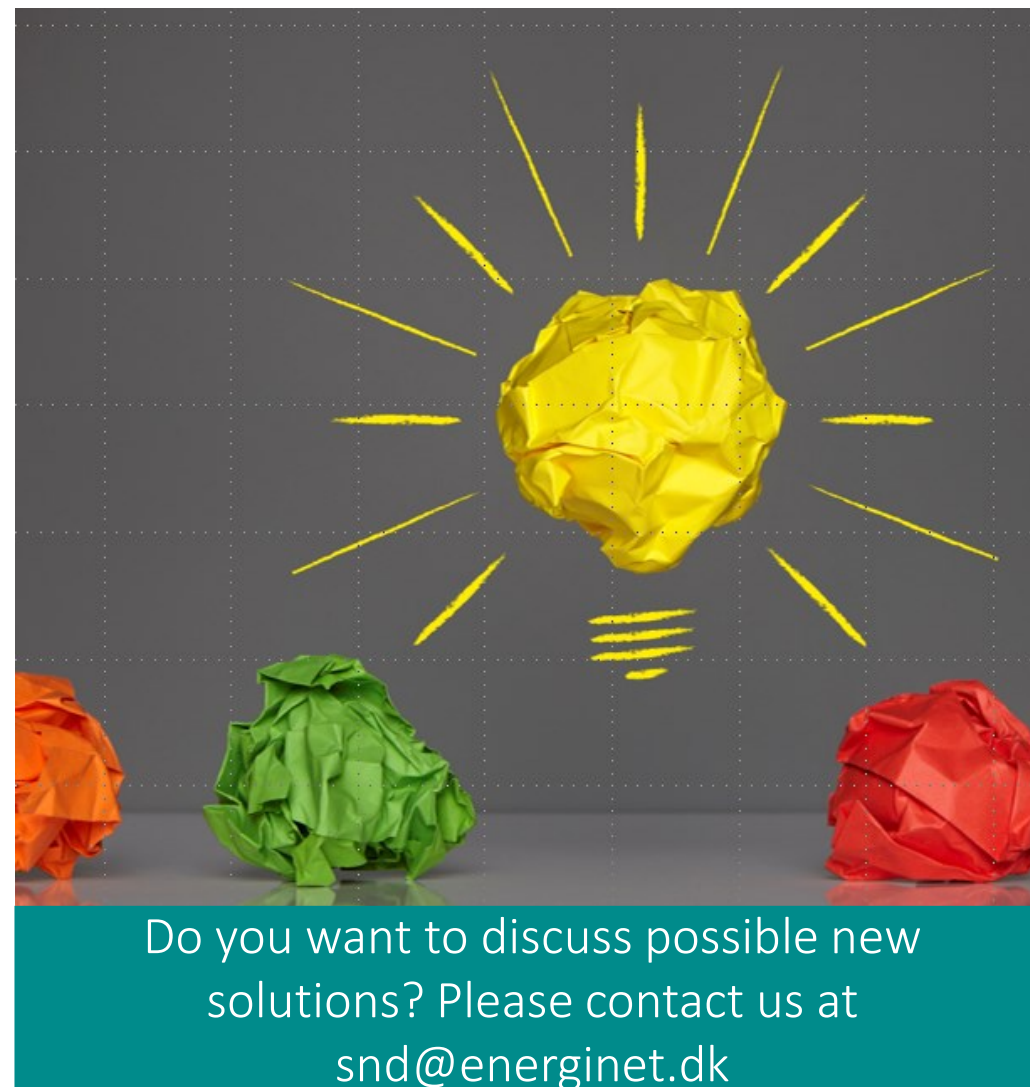
- Electricity and gas system development needs

What?

Full plan expected in spring/summer 2022

Sub report available at www.energinet.dk on Development Needs Assessment and Solution Catalogue

- Challenges: Developments in gas consumption and biomethane production



QUESTIONS



Contact: cju@energinet.dk

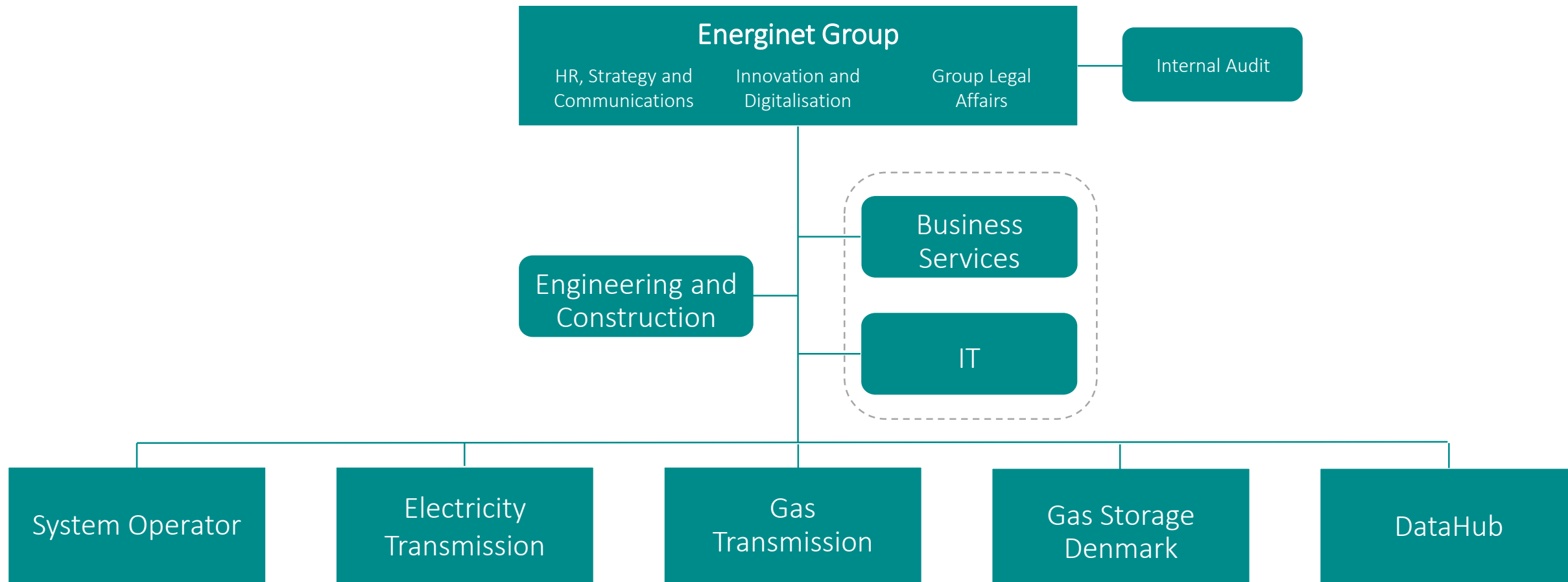
An abstract geometric pattern of interconnected lines forming a complex, multi-faceted structure, resembling a network or a crystalline lattice, located in the top-left corner of the slide.

ENERGINET SYSTEM OPERATOR

The foundation for a secure and efficient
green transition for both electricity and gas

Søren Dupont Kristensen, September 2021

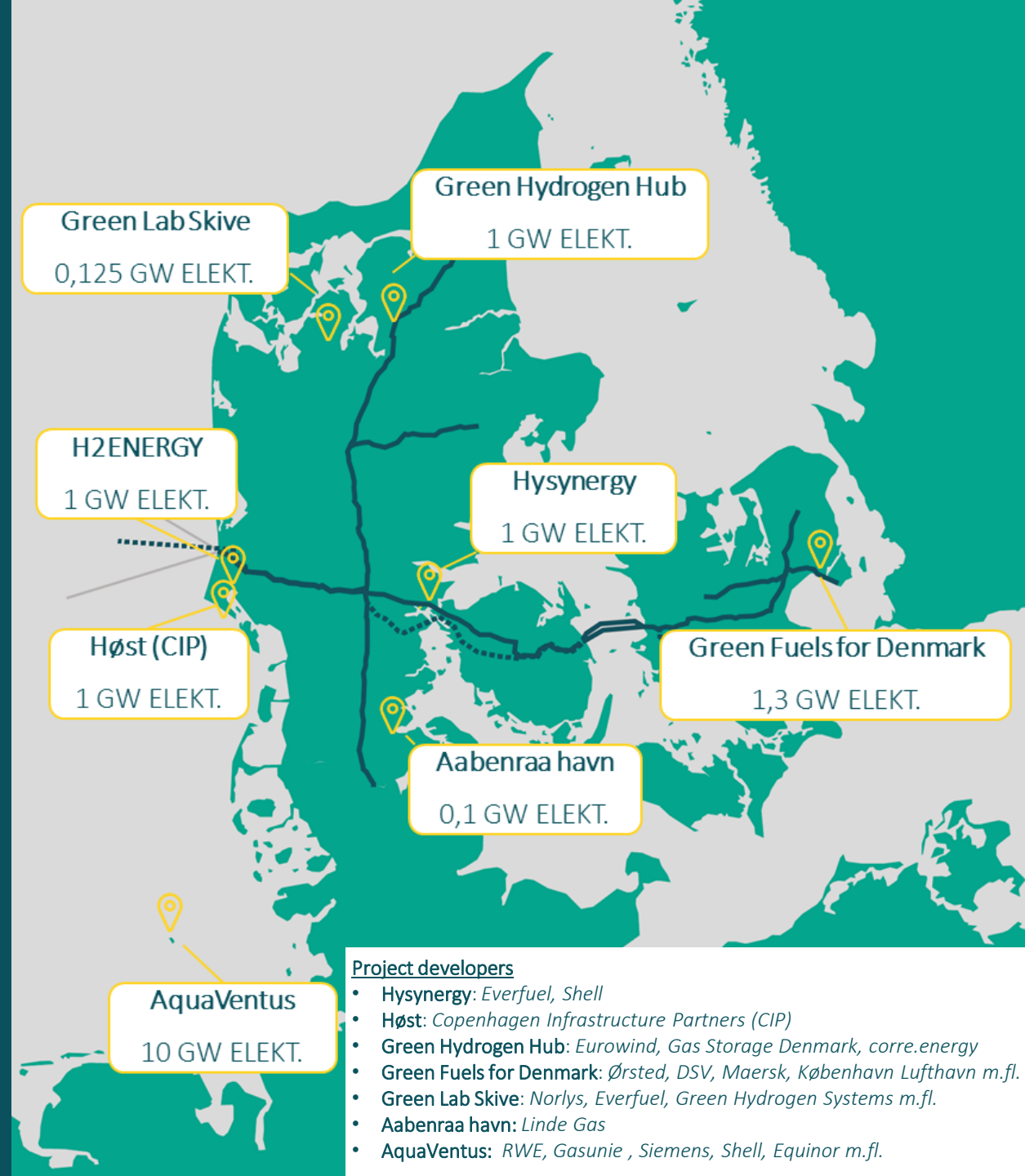
ENERGINET'S NEW ORGANIZATION



CLIMATE GOALS CALL FOR SECTOR COUPLING

- Energinet System Operator play a special role in sector coupling and power-to-gas.
- In 2050, electricity and gas is assumed to be consumed very differently than today – as energy, but increasingly important as part of e-fuels, etc.

	2020	2030	2040	2050
EU				
GHG reduction		55 %		100 %
Denmark				
GHG reduction		70 %		100 %
Electricity – RE share	63 %	110 %		>100 %
Gas – Biomethane share	21 %	63 %	100 %	>100 %



Project developers

- **Hysynergy:** Everfuel, Shell
- **Høst:** Copenhagen Infrastructure Partners (CIP)
- **Green Hydrogen Hub:** Eurowind, Gas Storage Denmark, corre.energy
- **Green Fuels for Denmark:** Ørsted, DSV, Maersk, København Lufthavn m.fl.
- **Green Lab Skive:** Norlys, Everfuel, Green Hydrogen Systems m.fl.
- **Aabenraa havn:** Linde Gas
- **AquaVentus:** RWE, Gasunie, Siemens, Shell, Equinor m.fl.

FOCUS

- From a specific sector focus on electricity and gas
- To a more inclusive and holistic focus on development of a climate-neutral energy supply

ENERGINET SYSTEM OPERATOR

PURPOSE

- One joint System Operator combines system operation of the electricity and gas systems
- Underpin Denmark's very ambitious climate targets in the best possible way

EXPERTISE

- Brings together professional expertise of many different kinds
- From control centres and security of supply specialists to departments that develop energy systems and markets

GOAL

- Energinet System Operator has a special role and position in supporting the green transition in a proactive, innovative and accelerated way

A JOINT SYSTEM OPERATOR WILL SPEED UP INTEGRATION OF THE ENERGY SYSTEMS

GREEN TRANSITION



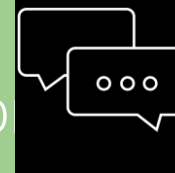
Strengthen Energinet's contribution to an accelerated green transition of the energy supply

INNOVATION



Create optimal conditions for innovation, cooperation, competence development and knowledge sharing

EXTERNAL COOPERATION



Make it easier for stakeholders with an interest in the integrated energy system to interact with Energinet

PLANNING & DEVELOPMENT

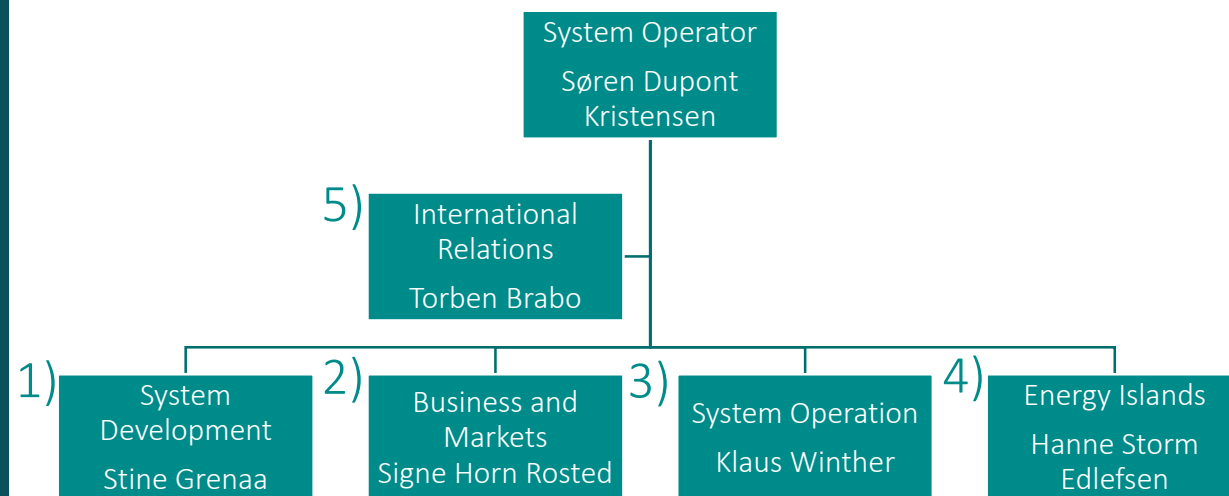


Improve development of market models, integrated infrastructure planning and operational solutions

Streamlining Energinet's stakeholder collaboration

BASIC STRUCTURE AND CORE TASKS

- 1) Strategic planning (incl. TYNDP), system perspective and grid development
- 2) Markets, data, digitalization, system value and regulation (Prisma, JAO)
- 3) Control centre, system performance, operations development, Nordic regional security coordinator (RSC)
- 4) Development, construction, and operation of the world's first two energy islands
- 5) European cooperation (on gas, BP, sector coupling and PtX), global engagement

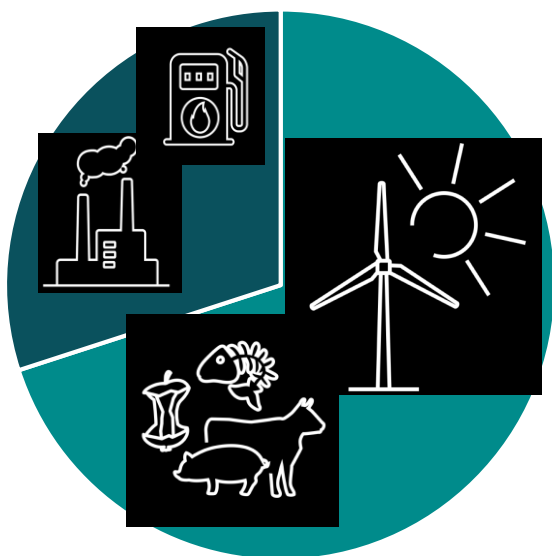


335 employees

A FUTURE WITH A GREEN ELECTRICITY SECTOR

Development in Denmark's electricity consumption

2020



RE: 62 pct. of electricity consumption

2030



RE: 110 pct. of electricity consumption

2050



RE: electricity used wide in energy mix



Challenges

- Massive, local RE production
- Energy islands

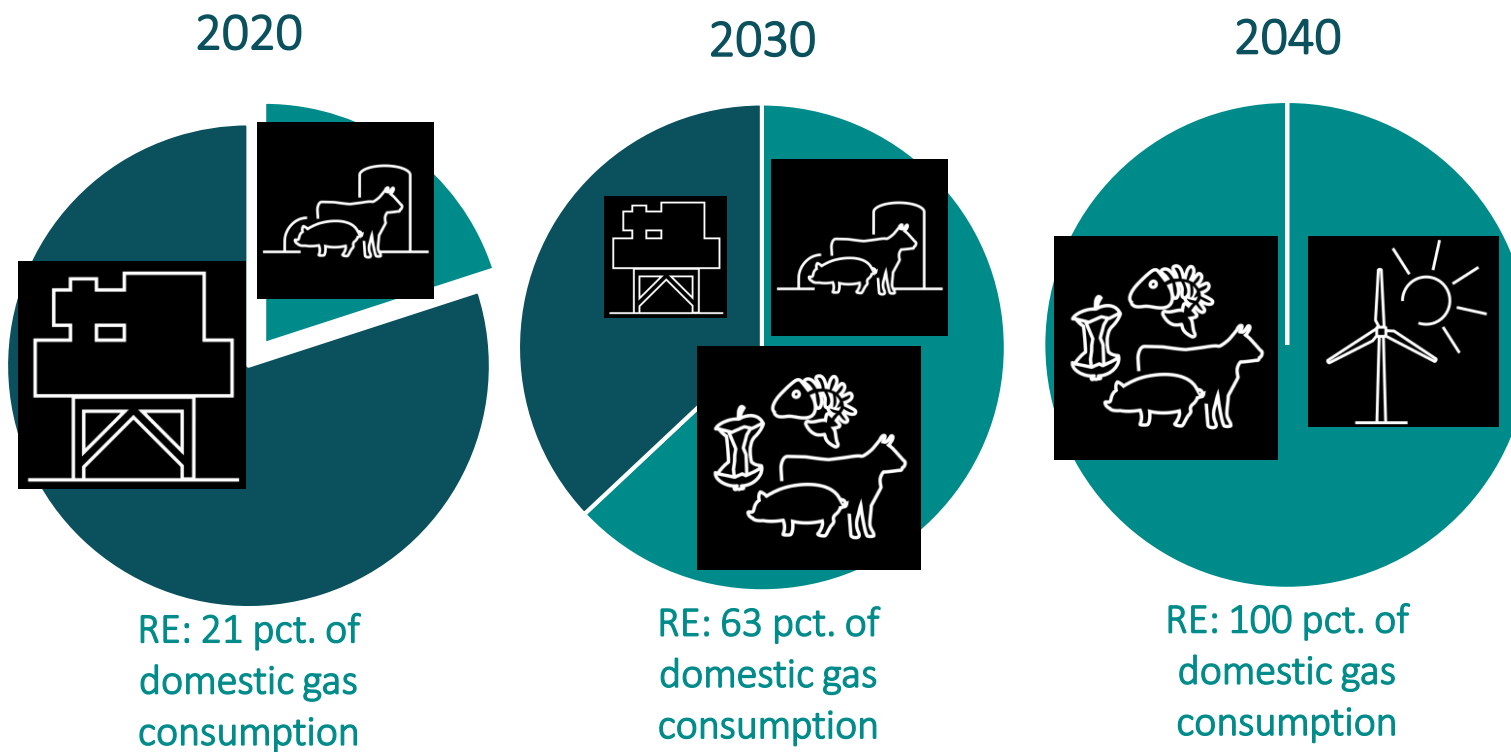


Opportunities

- Aggregators
- Energy Islands
- Offshore SO

A FUTURE WITH A GREEN GAS SECTOR

Development in Denmark's gas consumption



Challenges

- Natural gas is not 100 pct. green
- Decreasing gas consumption
- Local surpluses of biogas

Opportunities

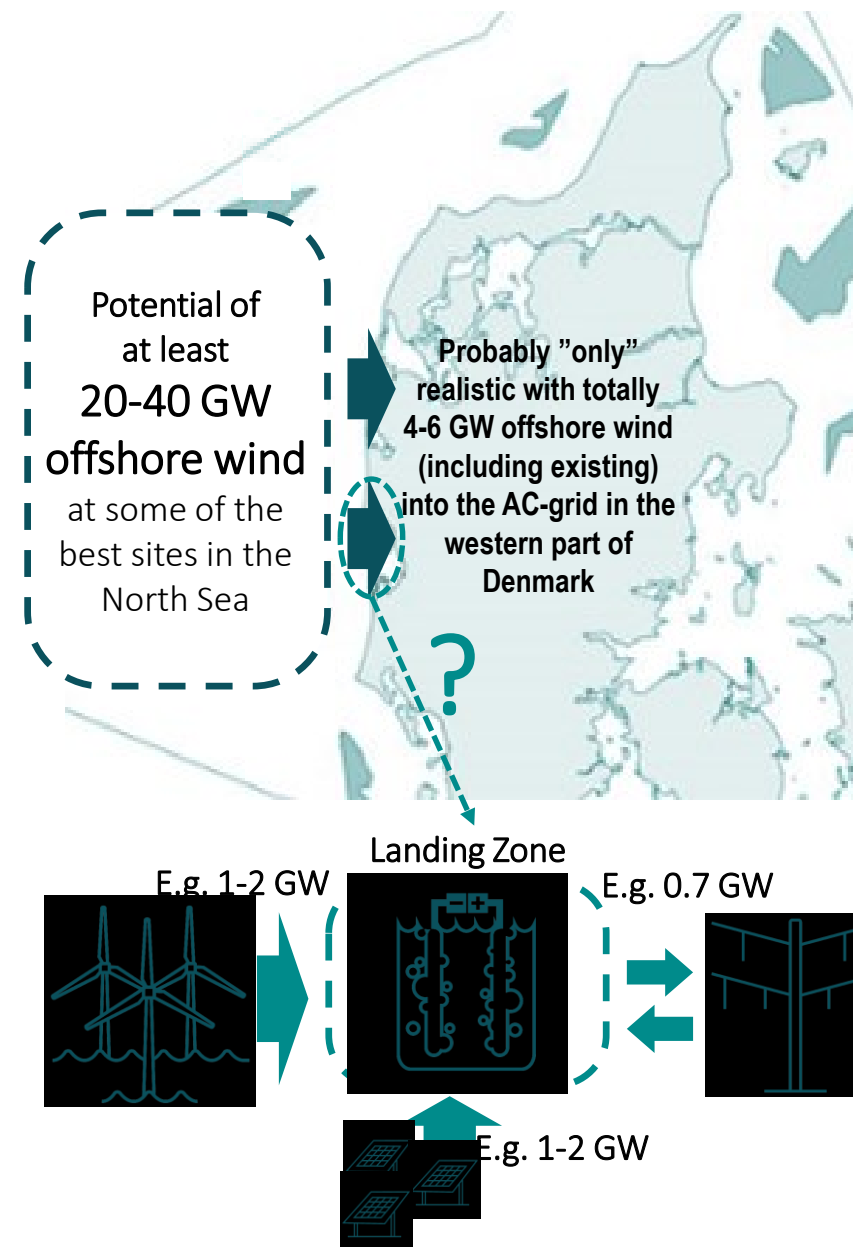
- Biomethane at 70 pct.
- Baltic Pipe utilise existing grid and support Polish green transition
- Heavy industry as gas consumers
- PtX and Hydrogen

INTEGRATION OF LARGE SCALE OFFSHORE WIND

...and (semi-) large scale onshore wind and solar PV

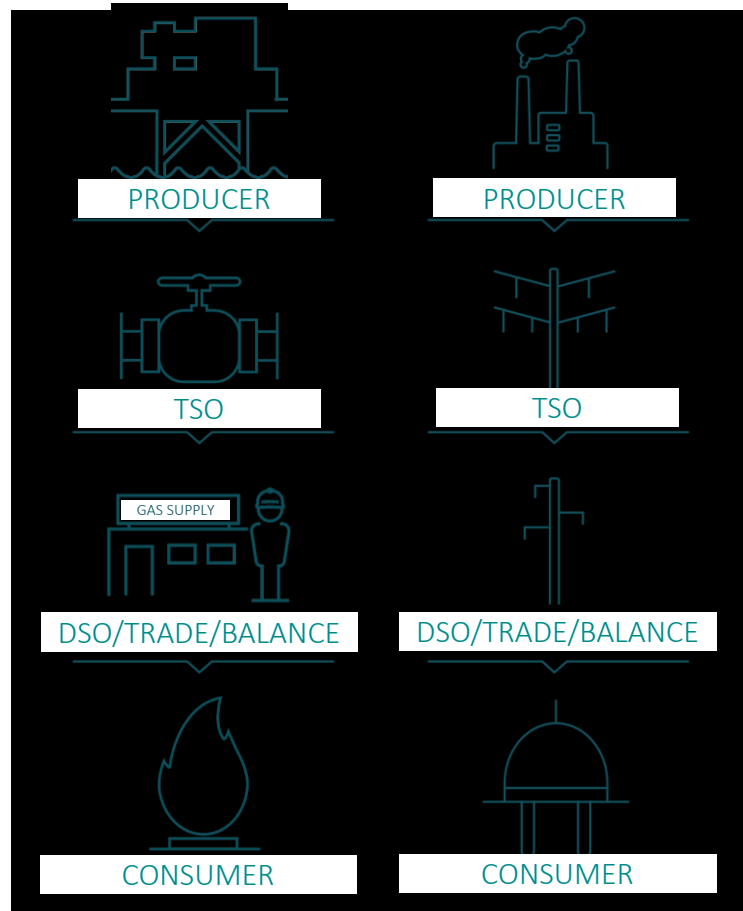
Large scale electrolysis/PtX and multi GW offshore Wind in Denmark goes together

Without electrolysis/PtX it will be difficult and less attractive to install many GW new wind (and PV) in Denmark. Due to power price "cannibalism" and public challenges with expanding electrical infrastructure.

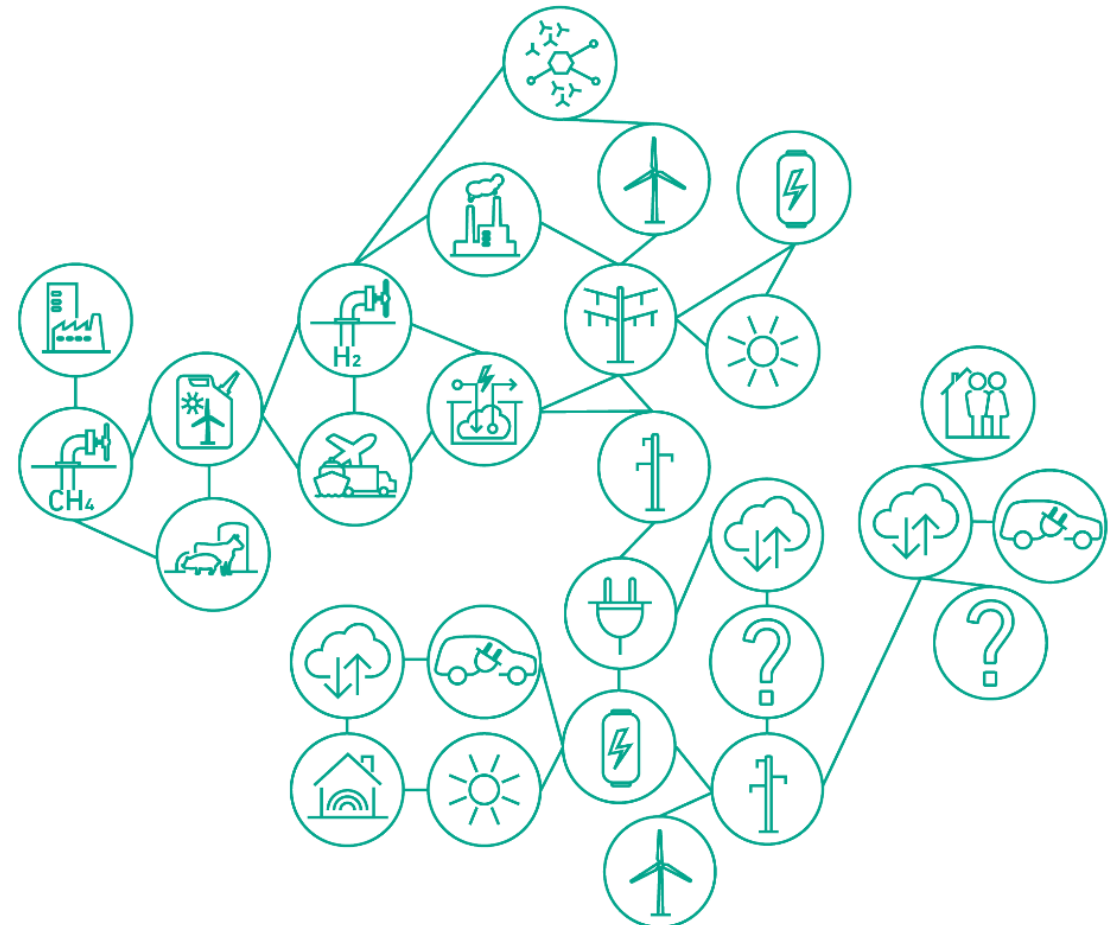


THE VALUE CHAIN – BEFORE AND IN THE FUTURE

BEFORE

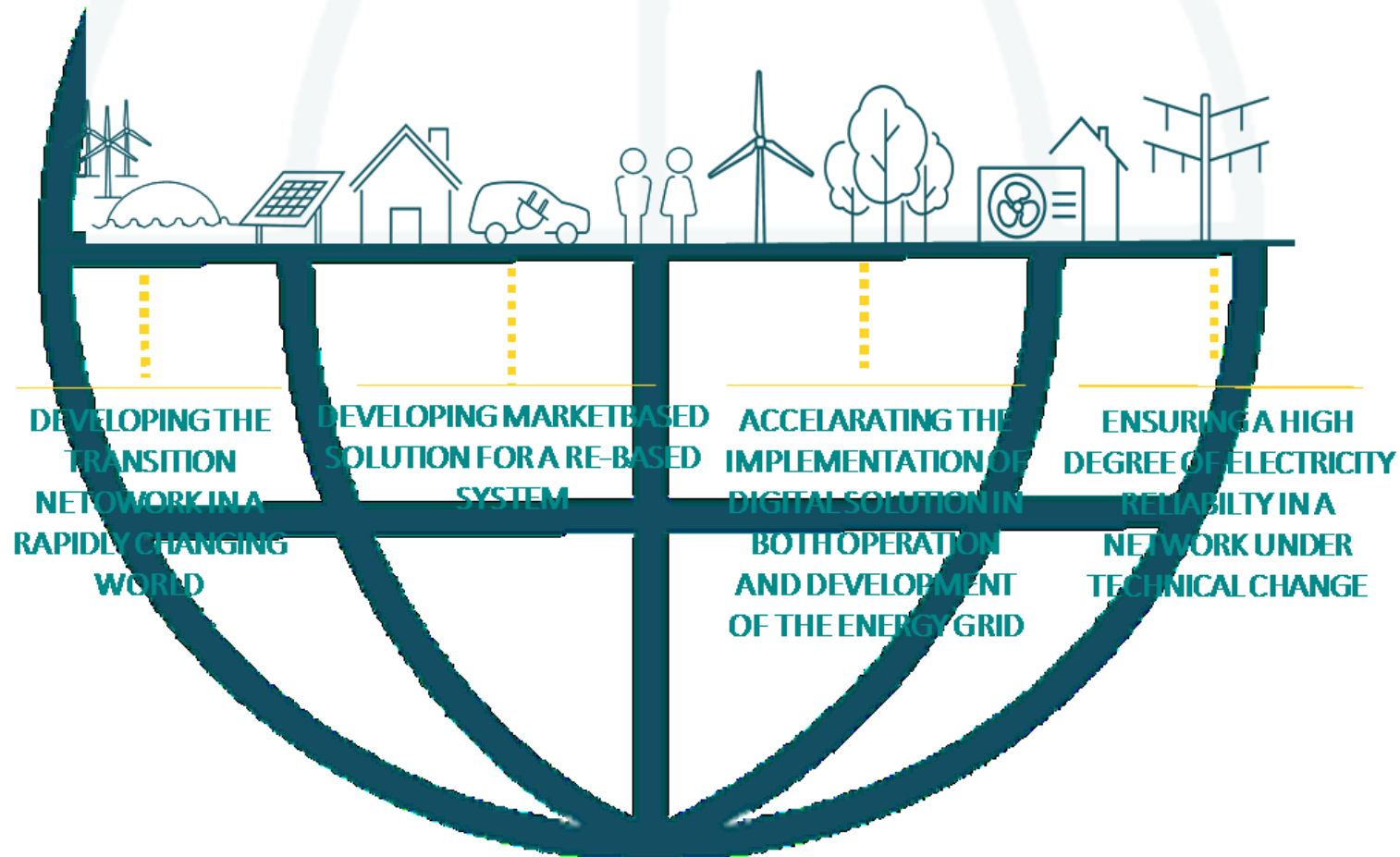


IN THE FUTURE



GREEN ENERGY FOR A BETTER WORLD

ENERGINET SYSTEM OPERATOR CREATES THE FOUNDATION FOR A SECURE AND SAFE GREEN TRANSITION



ZERO OR
HERO IN THE GREEN TRANSITION

We are in the middle of a **unique task** that will provide us lots of exciting challenges and tasks.

We have succeeded in **setting the agenda**, not just for Energinet, but the entire Denmark.

We can continuously help shape the future of the **Danish Transition** into a sustainable society.



“We choose to go to the moon in this decade... **Not because it’s easy, but because it’s hard, because that goal will serve to organize and measure the best of our energies and skills**, because that challenge is one that we are willing to accept, one we are unwilling to postpone, and one which we intent to win, and the others, too.”

- John F. Kennedy (Sept. 12, 1962)

QUESTIONS



Contact: sdk@energinet.dk

Current cases and pipeline

The Danish Utility Regulator

Energinet Shippers' Forum

September 9, 2021

DUR/TERI/PELJ



Current Cases and Pipeline

Current Cases:

- 1. Offshore tariff complaints 2011-2020**
 - Expect decisions **first half of 2022**
 - Comparison to market practice ongoing

 - Four new complaints received 2020-21
 - **Decision** on first complaint published September 6th
- 2. Baltic Pipe URE/DUR agreement signed**
 - Regulatory responsibility Baltic Pipe DK/PL
- 3. New balancing model methodology**
 - Within Day Obligations
 - Smoothing
 - No-punishment Principle

Pipeline:

Expected **submissions** of methodology for regulatory approval:

Baltic Pipe:

- Integration of North Sea offshore part into the current DK/S market model

NC TAR:

- New tariff methodology from October 2022



Publications

1. ACER/CEER European Green Deal Regulatory White Papers

Purpose: To deepen understanding of regulatory aspects of Green Deal issues

3rd Paper:

Rules to Prevent Methane Leakage in the Energy Sector

www.acer.europa.eu/green-deal

2. ACER annual market reports

Market Monitoring Report 2020 – Gas Wholesale Markets Volume

documents.acer.europa.eu/Official_documents

3. DUR National Report 2020

DUR soon to publish its annual report:

The Danish Electricity and Natural Gas Markets 2020

forsyningstilsynet.dk

4. EC Fit-for-55:

EU Commission published package July 14th

Attention to proposals:

- **Renewable Energy Directive**
- **Energy Efficiency Directive**

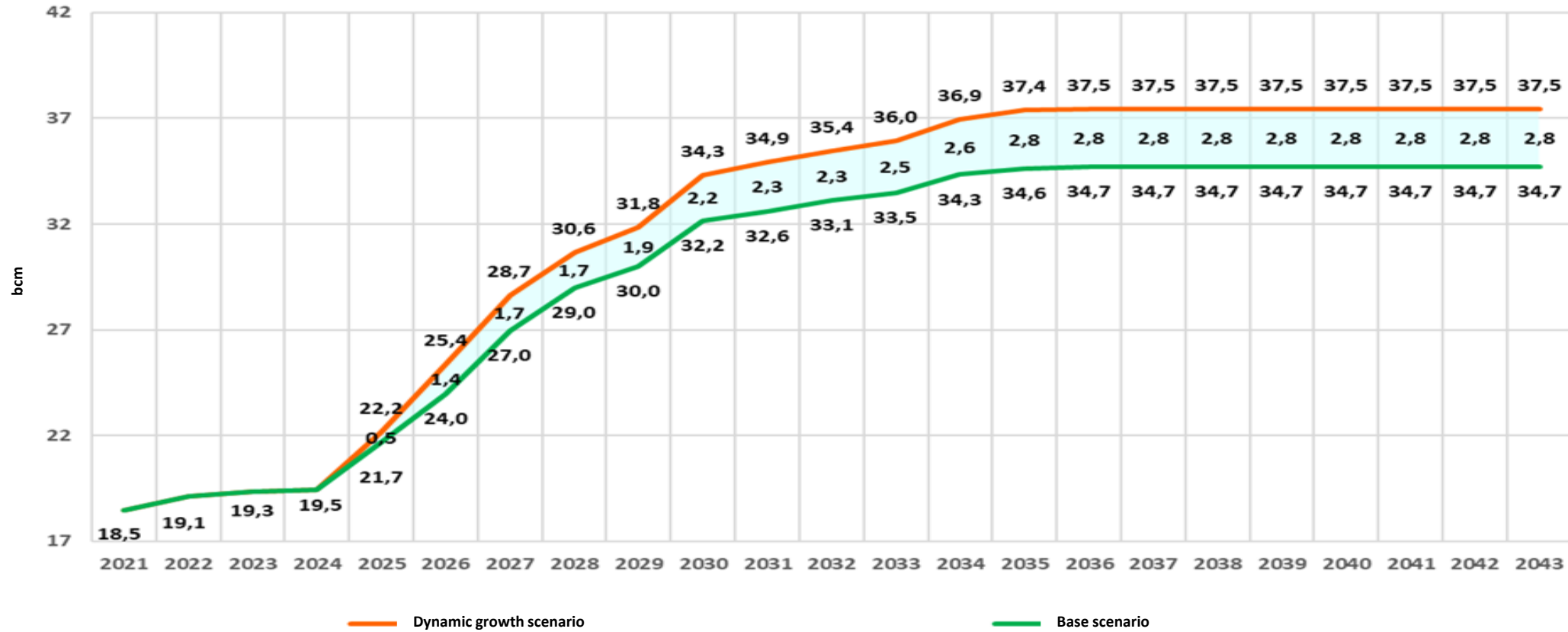
ec.europa.eu/info/strategy/priorities-2019-2024/european-green-deal/delivering-european-green-deal_en

THE ROLE OF GAS IN POLAND'S ENERGY STRATEGY AND ENERGY TRANSFORMATION

Mateusz Mońko, Embassy of Poland in Denmark

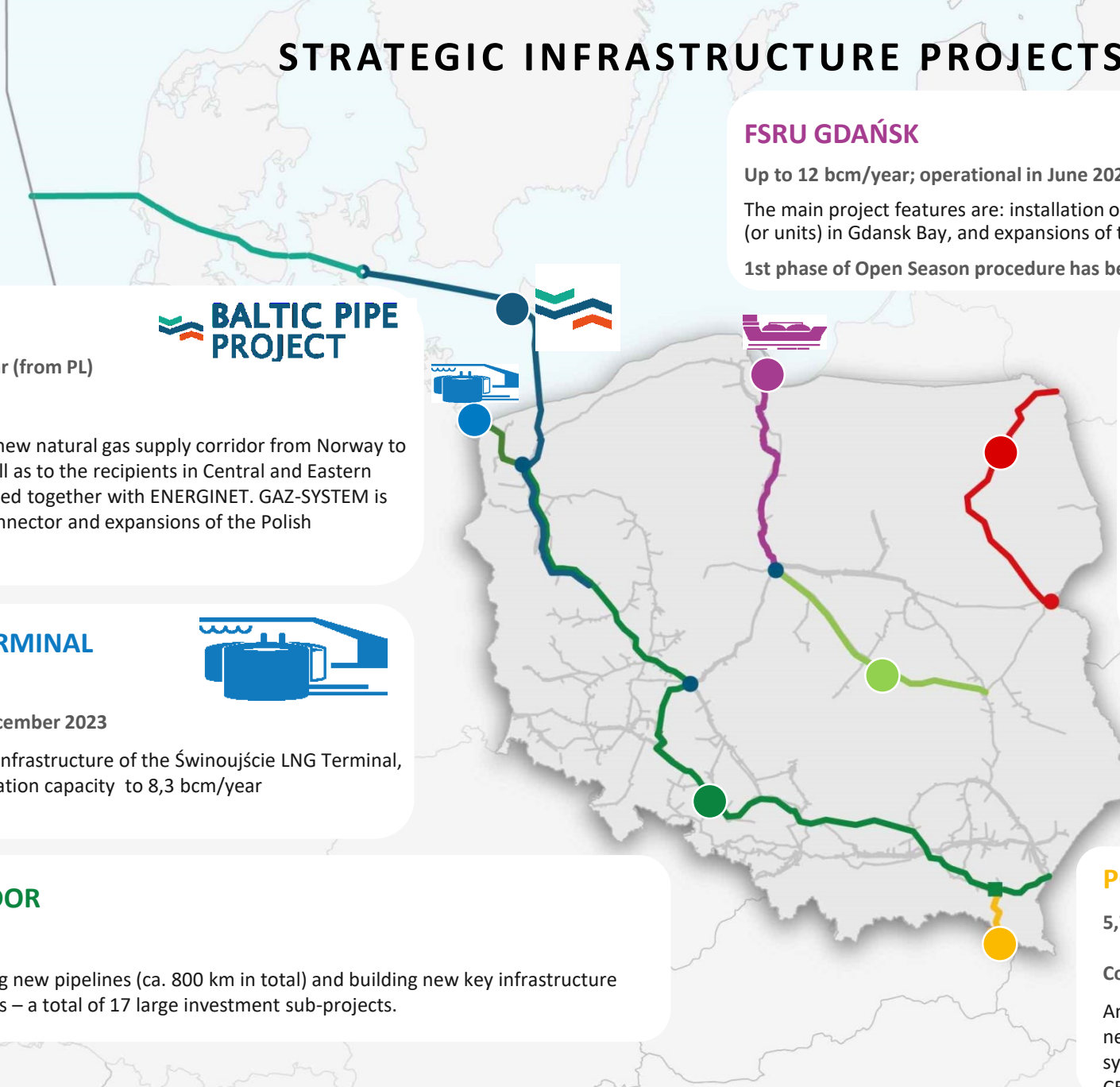
POLISH TSO'S TEN-YEAR DEVELOPMENT PLAN

ANNUAL GAS DEMAND FORECAST (BCM)



RAPID GROWTH OF GAS CONSUMPTION IN POLAND IS EXPECTED IN THE NEXT 15 YEARS

STRATEGIC INFRASTRUCTURE PROJECTS



FSRU GDAŃSK

Up to 12 bcm/year; operational in June 2028

The main project features are: installation of floating regasification unit (or units) in Gdansk Bay, and expansions of the Polish transmission system.

1st phase of Open Season procedure has been launched in August 2021



BALTIC PIPE

10 bcm/year (to PL) | 3 bcm/year (from PL)

Operational: October 2022

The Baltic Pipe Project creates a new natural gas supply corridor from Norway to Danish and Polish markets, as well as to the recipients in Central and Eastern Europe. The Project is implemented together with ENERGINET. GAZ-SYSTEM is responsible for the Baltic Interconnector and expansions of the Polish transmission system.



EXPANSION OF LNG TERMINAL IN ŚWINOUJŚCIE

8,3 bcm/year; operational in December 2023

Investment project adding extra infrastructure of the Świnoujście LNG Terminal, allowing to increase the regasification capacity to 8,3 bcm/year



NORTH-SOUTH CORRIDOR

Operational December 2022

This project consists in both laying new pipelines (ca. 800 km in total) and building new key infrastructure items such as compressor stations – a total of 17 large investment sub-projects.

POLAND-LITHUANIA INTERCONNECTOR (GIPL)

2,4 bcm/year (from PL)

1,9 bcm/year (to PL)

Commissioning: 2022

Construction of new compressor station and new cross-border gas pipeline connecting natural gas transmission systems in Poland and Lithuania will integrate isolated gas markets of the East Baltic region with the European gas market

GUSTORZYN–WRONÓW PIPELINE

Operational in 2023

The key connection between Gustorzyn gas hub and Wronów compressor station.

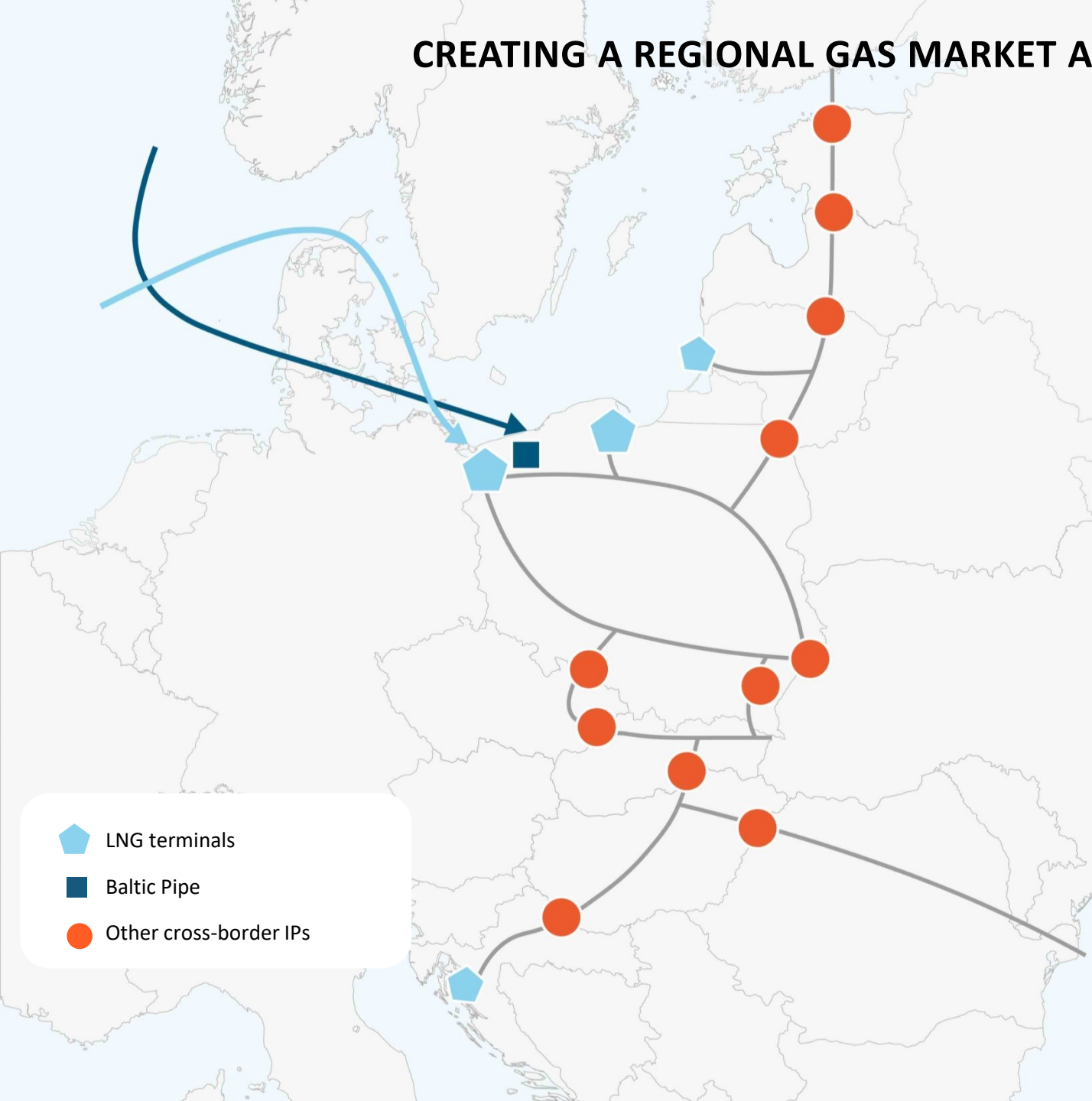
POLAND–SLOVAKIA INTERCONNECTOR

5,7 bcm/year (from PL) | 4,7 bcm/year (to PL)

Commissioning: 2022

An essential part of the North-South gas corridor. Construction of a new cross-border gas pipeline will connect natural gas transmission systems in Poland and Slovakia and integrate the gas market in the CEE region.

CREATING A REGIONAL GAS MARKET AS PART OF JUST ENERGY TRANSITION



- ▶ The current gas market in the CEE and Baltic regions is characterized by a major dependency on a single gas source and lack of interconnectivity, limiting its competition in gas supply and trade.
- ▶ National energy mixes of countries in Central-Eastern Europe are heavily based on high-emission sources of energy.
- ▶ Diversification of gas sources and effective development of the network are the crucial elements of just energy transition.
- ▶ Establishing a market that will ensure security of supply and enable effective energy transition.

Transition from coal to natural gas as a low emission fuel to power&heating sectors and other industries in the CEE and Baltic Sea regions will improve quality of life by reducing health costs arising as side effects of burning solid fuels.

POLISH TSO'S CONTRIBUTION TOWARDS EU GREEN DEAL INCL. HYDROGEN MATTERS



Poland's Energy Policy until 2040

Just transition, enhanced emphasis on emission reduction, key role of natural gas, consideration of renewable and low-carbon gases (10% target for green gases in networks).



Poland's Hydrogen Strategy

Objective 5 – development by 2025 of feasibility study for a North-South „Hydrogen Highway” pipeline to transport energy from the offshore windfarms – is crucial from GAZ-SYSTEM's perspective.



Further actions in Hydrogen area at national level – 2021 and onwards

H2 Sectoral Agreement its 6 thematic working groups, preparation of Polish Hydrogen Law.



European Hydrogen Backbone (EHB)

GAZ-SYSTEM joined the second edition of the EHB report published in April 2021.



Clean Hydrogen Alliance

GAZ-SYSTEM joined the initiative and participates in the roundtables on distribution and transmission.



GIE Report on Decarbonisation in CEE and SEE

GAZ-SYSTEM co-sponsored and contributed to the GIE report on decarbonisation in CEE and SEE region. Report published in April 2021.

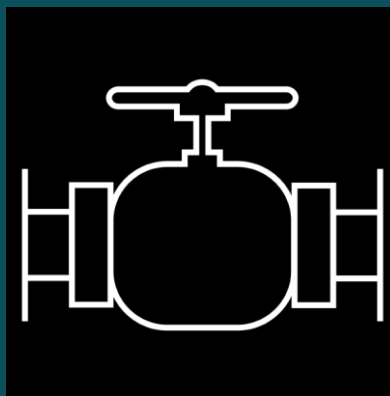


R&D Initiatives and Projects

Hydrogen Europe; European P2G Platform; Hyready; Hester; Domhydro; dedicated analyses and expertise; standardisation work. Key objective: preparation for H2 admixtures in the transmission network.

BREAK





BALTIC PIPE

Energinet

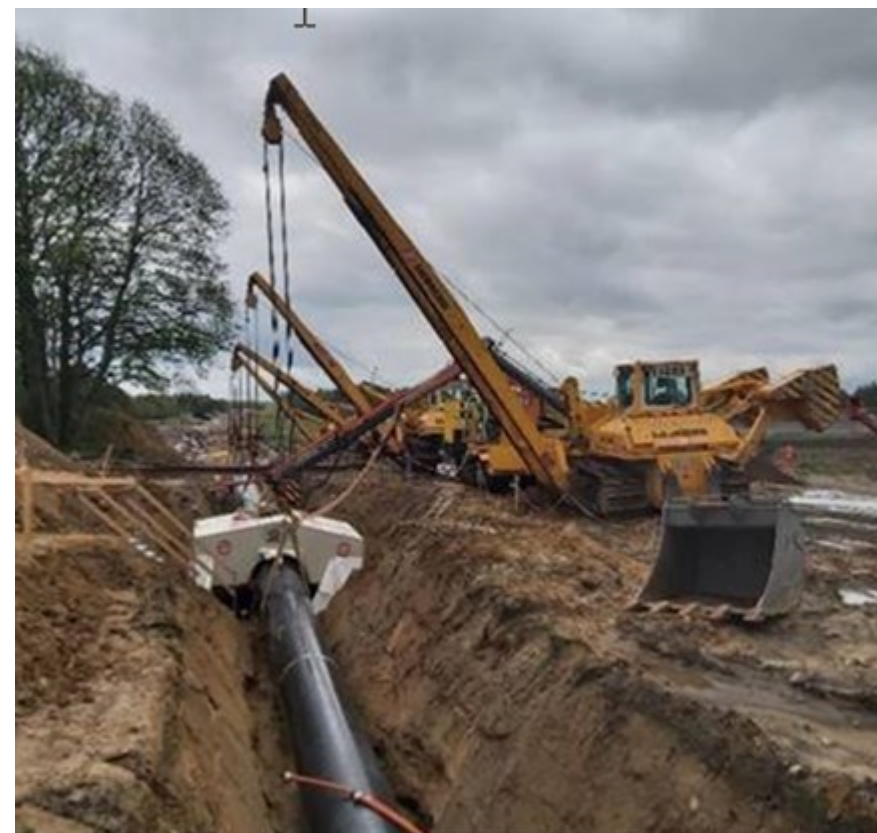
CAPACITY LEVEL Q4 2022

As previously announced, the revoke of the Environmental Impact Assessment for the Baltic Pipe Project will impact on the capacity level in Q4 2022.

The firm capacity level in the period 1 October 2022 – 31 December 2022 for IP Faxe towards Poland is calculated at 3,550 MWh/h.

The capacity will be recalculated on a short-term basis, in order to offer additional firm capacity and to maximize the interruptible capacity, during this period.

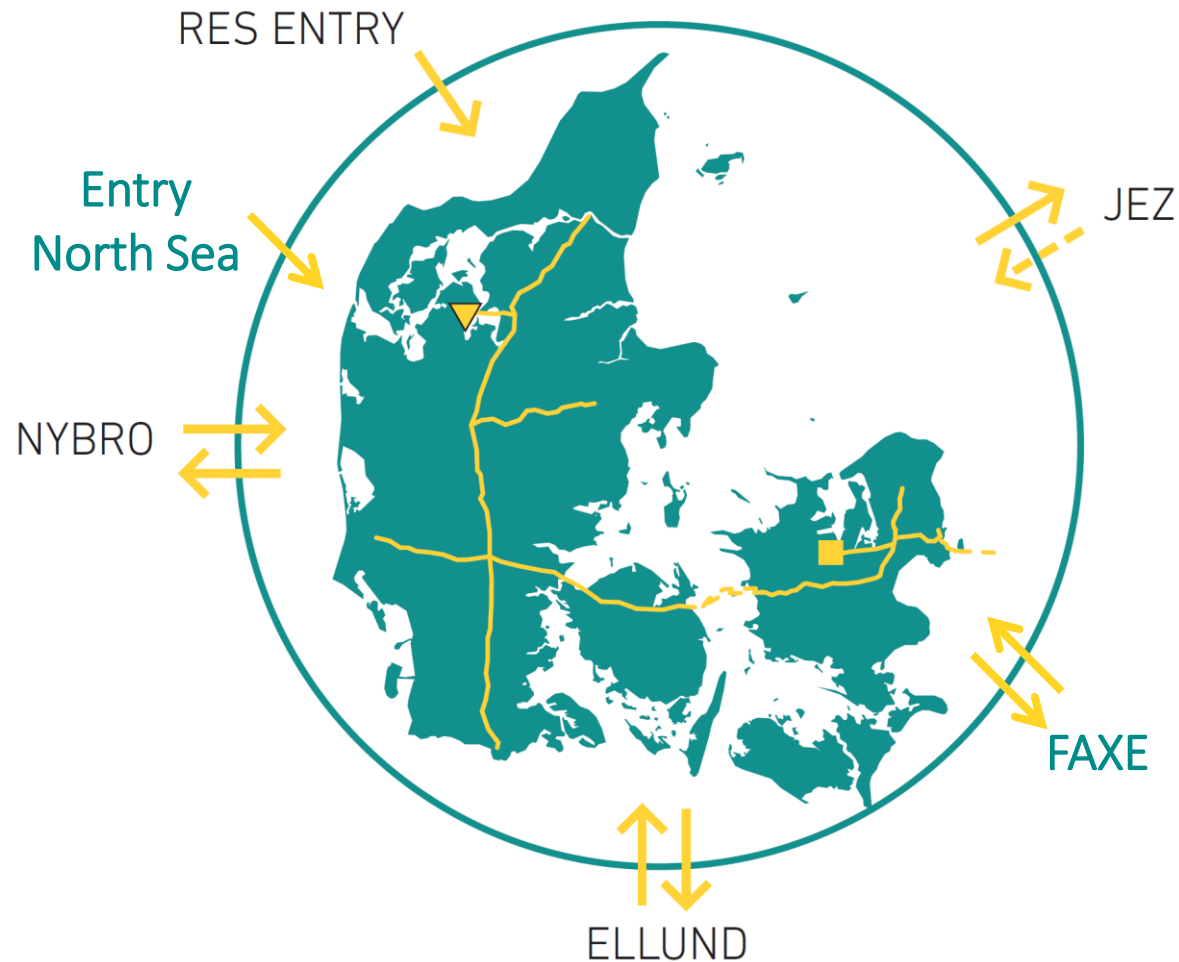
In accordance with the Capacity Allocation Mechanisms Network Code (NC CAM), 10 per cent of the firm capacity level must be saved for short-term contracts



ENTRY NORTH SEA STATUS

Methodology will be sent to the Danish regulator

- Danish version
- Focus one legal understanding
- The content and solutions presented in the methodology are still the same





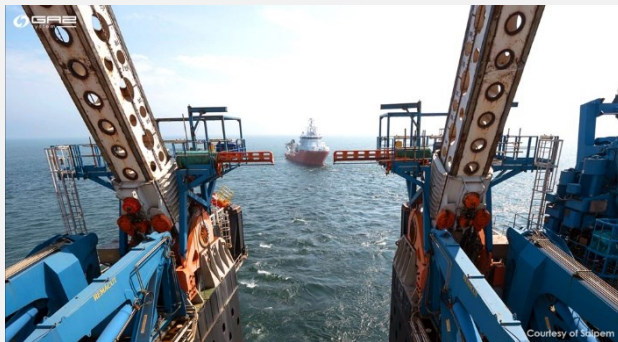
BALTIC PIPE OFFSHORE – STATUS OF WORKS

TUNNEL CONSTRUCTION

- Boring microtunnels in Poland and Denmark was completed this July. In Poland it is approx. 600 m long with approx. 1000 m in Denmark. In Poland the TBM was recovered **from the seabed in mid-August. Next activity is the pipeline shore pull through the microtunnel at the Polish shore in Pogorzelica.**
- The same kind of operation is to take place in Denmark in Q4.



OFFSHORE ACTIVITIES



- Laying the gas pipeline in the Baltic Sea continues – Castorone has already completed its work for the project by laying approx. 150 km of the pipeline in deep waters and now Castoro Sei is operating in Polish waters. In total, out of 275 km of the route, **ca. 250 km of the pipeline have already been laid.** Castoro 10, the third vessel, will start pipelay in Denmark in Q4. There are approx. 20 other vessels working for the Project in the Baltic Sea, including, for instance, rock dumping vessels, dredgers, and ships performing pre-lay and post-lay surveys.
- The offshore pipeline has been laid at **all crossings with third-party infrastructure.**



BALTIC PIPE PL ONSHORE – STATUS OF WORKS

COMPRESSOR STATIONS



Goleniów



Goleniów



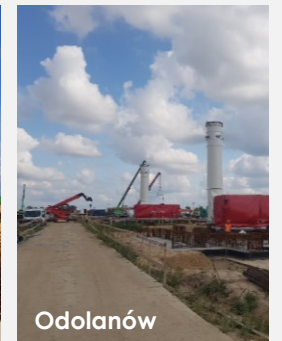
Gustorzyn



Gustorzyn



Odolanów



Odolanów

PIPELINES



Connecting pipeline

Welding at Niechorze-Płoty construction site



Connecting pipeline

Pipes ready for welding at Niechorze-Płoty construction site



Section 1: Goleniów - Ciecierzycze

Direct-Pipe under Krapiel river – cofferdam view



Section 2: Ciecierzycze - Lwówek

Pipe laying in trench



INVITATION TO USER GROUP:

- Balancing model implementation details
- **28 October 2021 12.30-14.30**
- Sign up and meeting details will be forwarded

BALANCING 2022 – CURRENT TOPICS

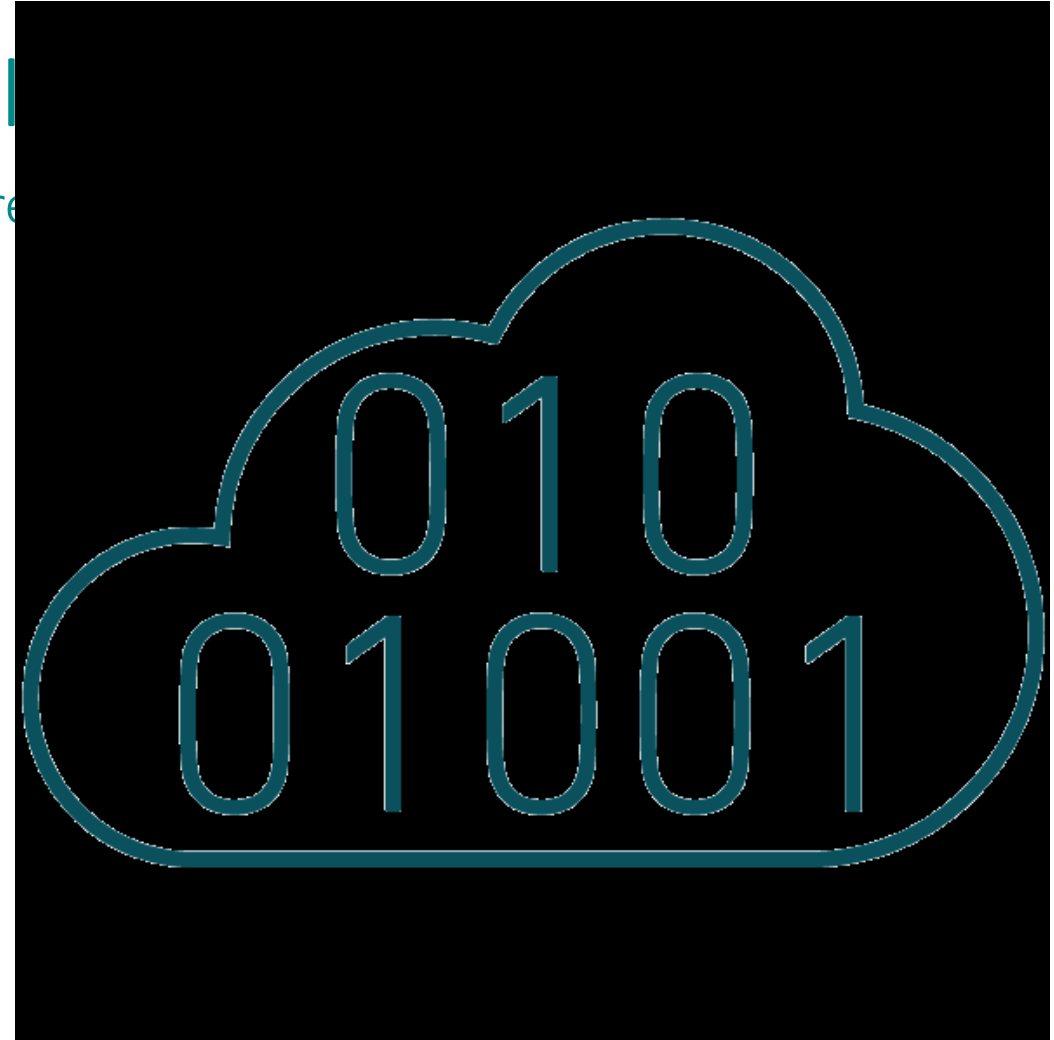
- Data and data quality – including signals to the market
- Fallback procedures and control mechanisms
- Future green zone - considerations on timing and function
- Smoothing – details on implementation
- Shorter lead-time on certain points
- Timelines and concrete test periods



NEW BACK-END MARKET

On track: Energinet to implement system before

- Sopra Steria chosen as IT supplier
- Implementation started in August 2021
- Implementation expected to finish by September 2022



REMIT

Current Id: 3001
Messagetype: New message
Title: 4th UPDATE: Reduction of transmission capacity in second half of 2021 due to work on Baltic Pipe - prev. 2983, 2986, 2997 and 3000

General message:
Dear player on the Danish gas market

As previously informed, Energinet will need to perform 3 tie-in's to the existing transmission network, during the second half of 2021, as part of the Baltic Pipe project.

This message is forwarded to specifically inform on the period for the second and third tie-in, as the first tie-in has been successfully completed.

Please be aware that the timing and duration may still be subject to changes:

- Second period: from 4th to 15th October 2021 - Consequence: Reduction in the total commercial injection capacity at Gas Storage Denmark. The injection capacity is set to 2.14 GWh/h
- Third period: planned for week 42 in October 2021 (was previously planned for September) - Consequence: Reduction in the total commercial injection capacity at Gas Storage Denmark. The injection capacity is set to 2.71 GWh/h

Energinet Gas TSO will update the message, if any changes occur.

Attachments:

BALTIC PIPE – TIE-IN'S 2021

Update 8 September 2021

- Operation in September moved to October
- Reduced impact on capacities

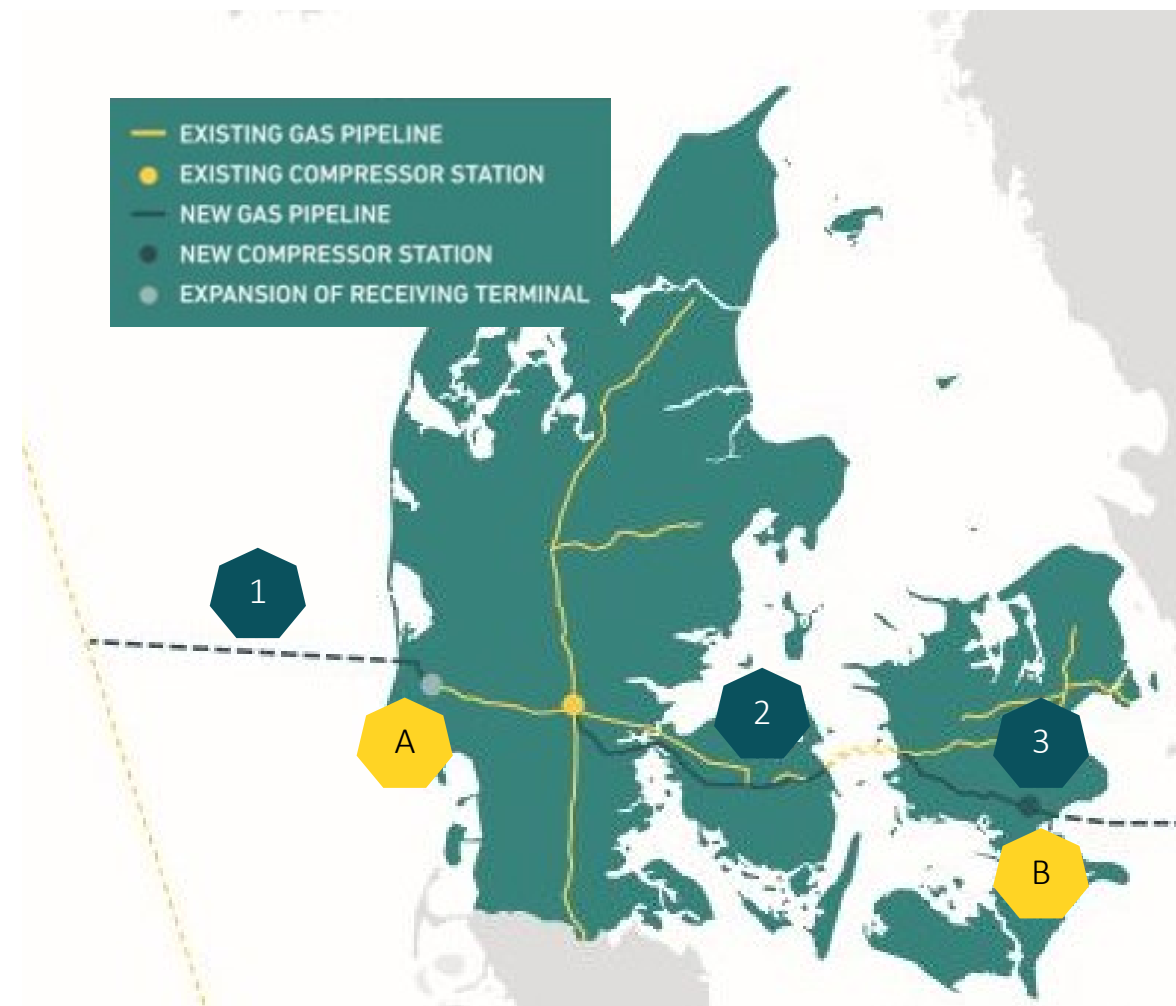
QUESTIONS



Contact: cru@energinet.dk

GAS FILLING AND FLOW-TEST OF BALTIC PIPE

- Gas filling of pipelines
 1. Danish offshore
 2. Onshore
 3. Interconnector
- Flow tests
 - A. EPII terminal Nybro
 - B. Compressor station Everdrup



EXPECTED TIMELINE AND VOLUMES

2022	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gas filling											
(1) Offshore		10-12 mcm ³									
(2) Onshore	3-4 mcm ³										5-6 mcm ³
(3) Interconnector								0-1 mcm ³			
Flow tests											
(A) EPII terminal		Volumes to be firmed up									
(B) Compressor station Everdrup								Volumes to be firmed up			

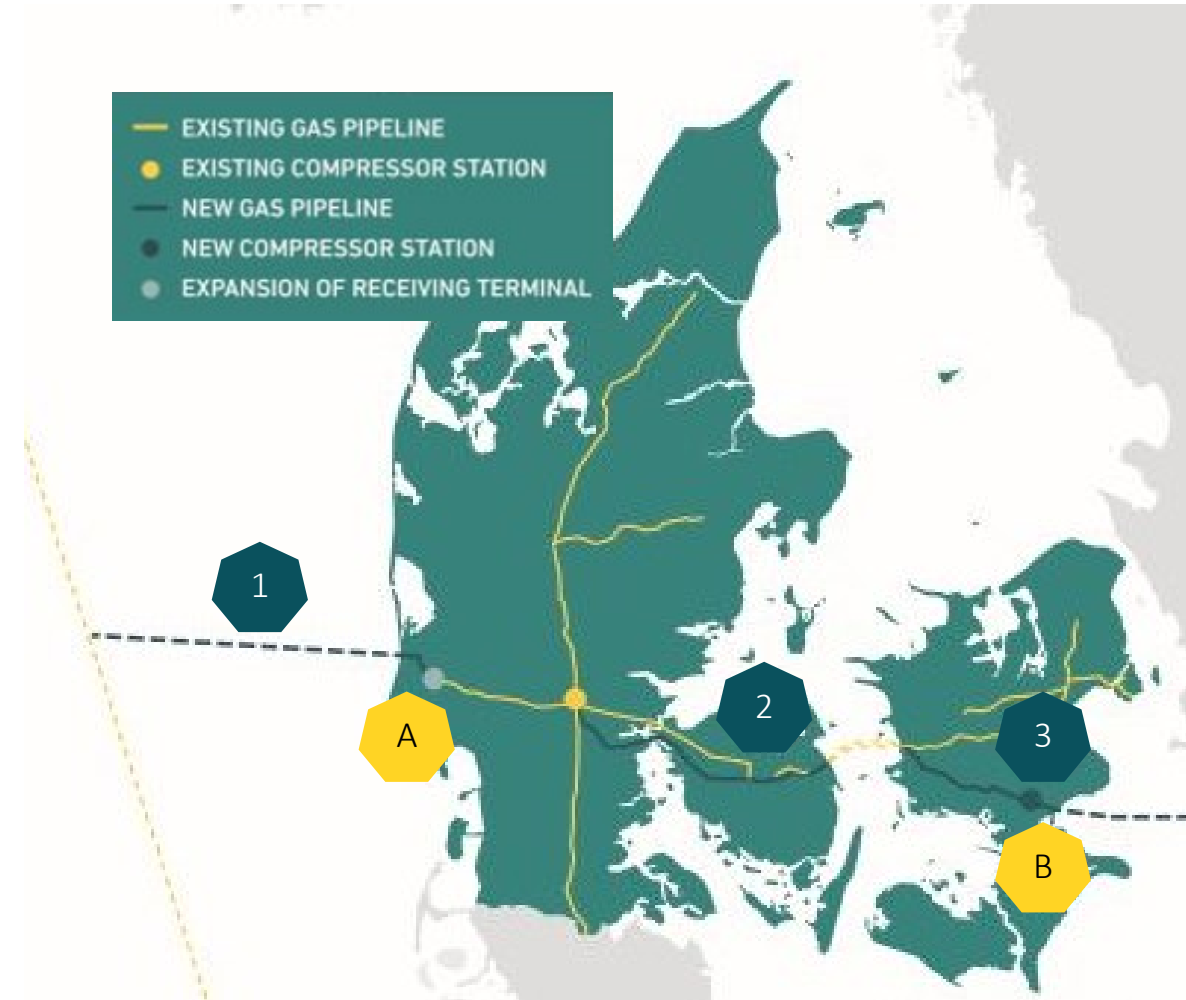
GAS SOURCING

Gas filling of pipelines

- Gas will be sourced from the Danish and Norwegian markets

Flow tests

- Flow commitments from shippers
 - From Norway → Denmark
 - From Norway → Denmark → Poland



QUESTIONS



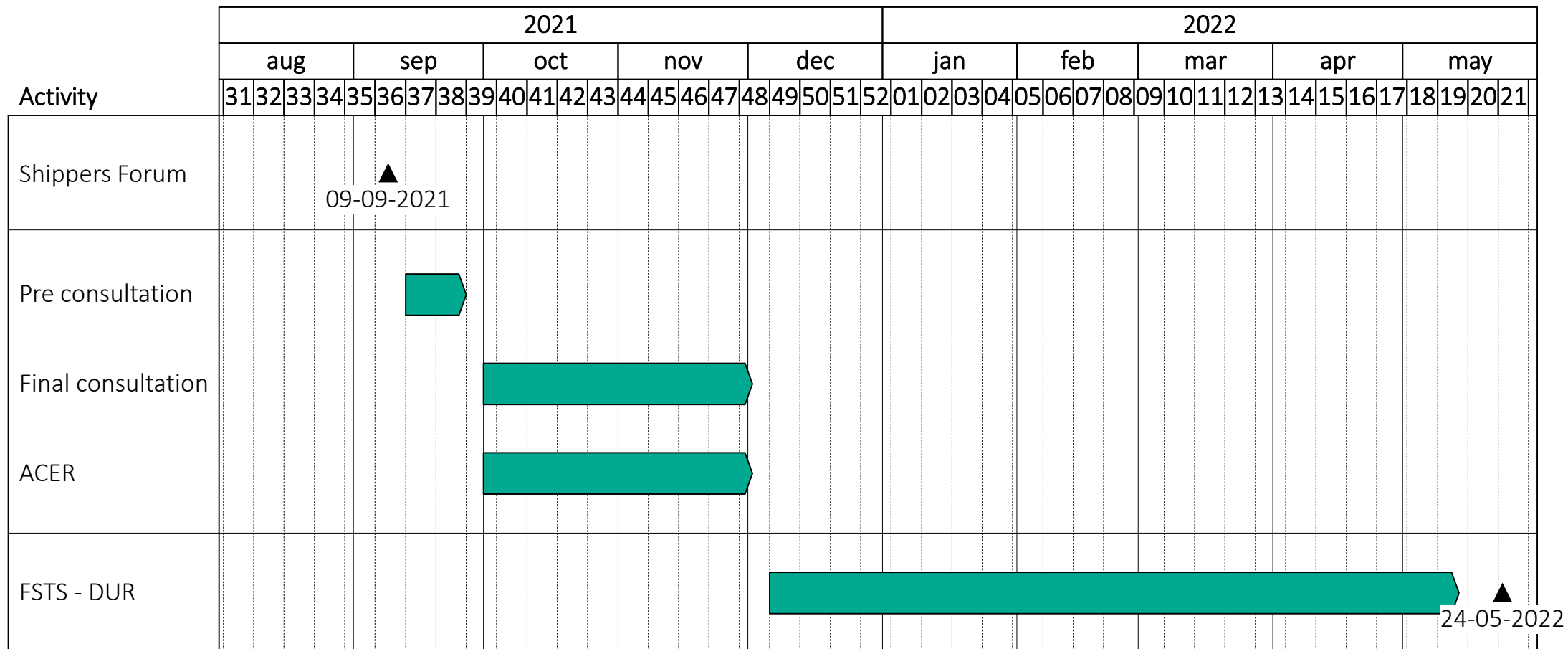
Contact: ltk@energinet.dk



TARIFFS

Nina Synnest Sinvani, Energinet

TIMELINE




PRE-CONSULTATION

Covers and describe the four proposed adjustments of the method application:

1. **Capacity-/commodity** split change from 70%/30% to 100%/0%
2. Discount for long-term capacity bookings (**Long-term multiplier**) of 5-10 %
3. Change of the collection periode **from gas year to calendar year**
4. Inclusion of upstream as a **non-transmission tariff**

The full packages with legal assessment will follow in the final-consultation





THE CONSULTATION WILL BE
SENT OUT VIA "GAS NEWS"
SO PLEASE REMEMBER TO
SUBSCRIBE

Any question please contact me at:

nsy@energinet.dk - phone + 45 2333 8902

QUESTIONS



Contact: nsy@energinet.dk

Gassco – bri

o Europe



NORWEGIAN
GOVERNMENT



OWNERS
TRANSPORT SYSTEMS



USERS
TRANSPORT SYSTEMS



OPERATOR



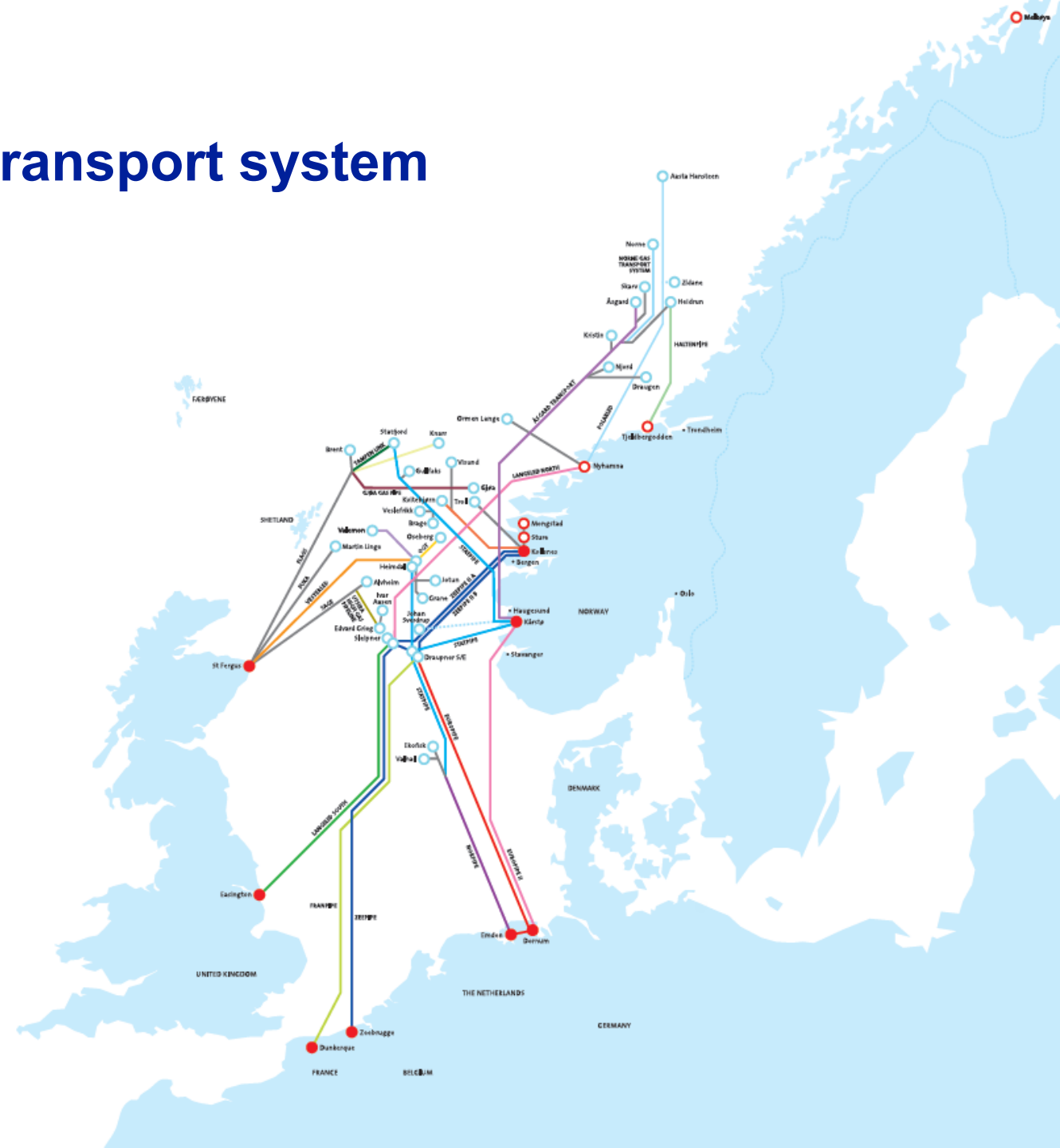
TECHNICAL
SERVICE PROVIDERS





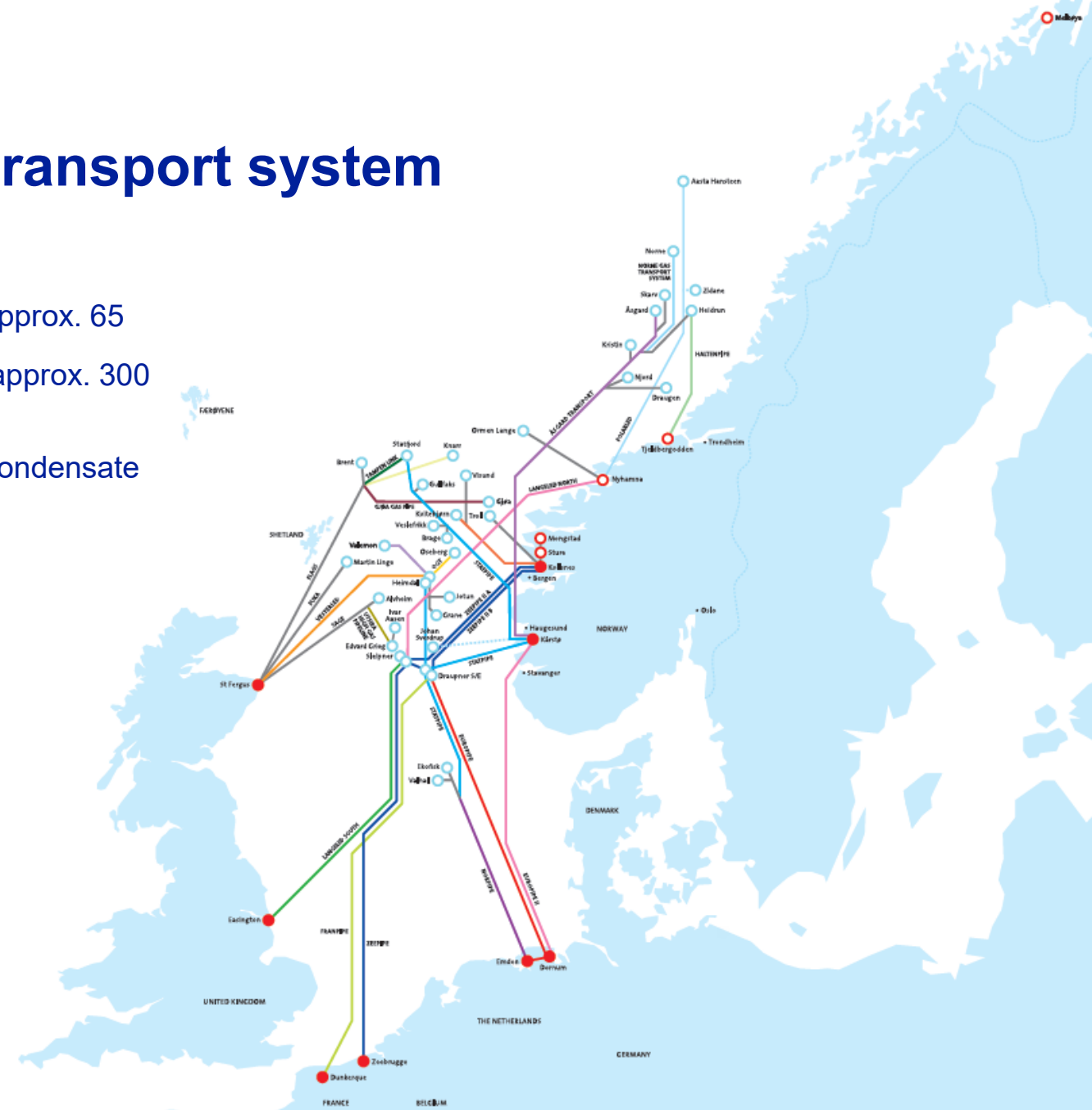
The integrated Norwegian gas transport system

- Connected to all major gas-producing fields on the NCS
- 8900 km of large-diameter, high-pressure pipelines
- Riser platforms
- Three large processing facilities in Norway
- Receiving terminals in four European countries
- Connected to major downstream gas transmission systems in Europe and the UK



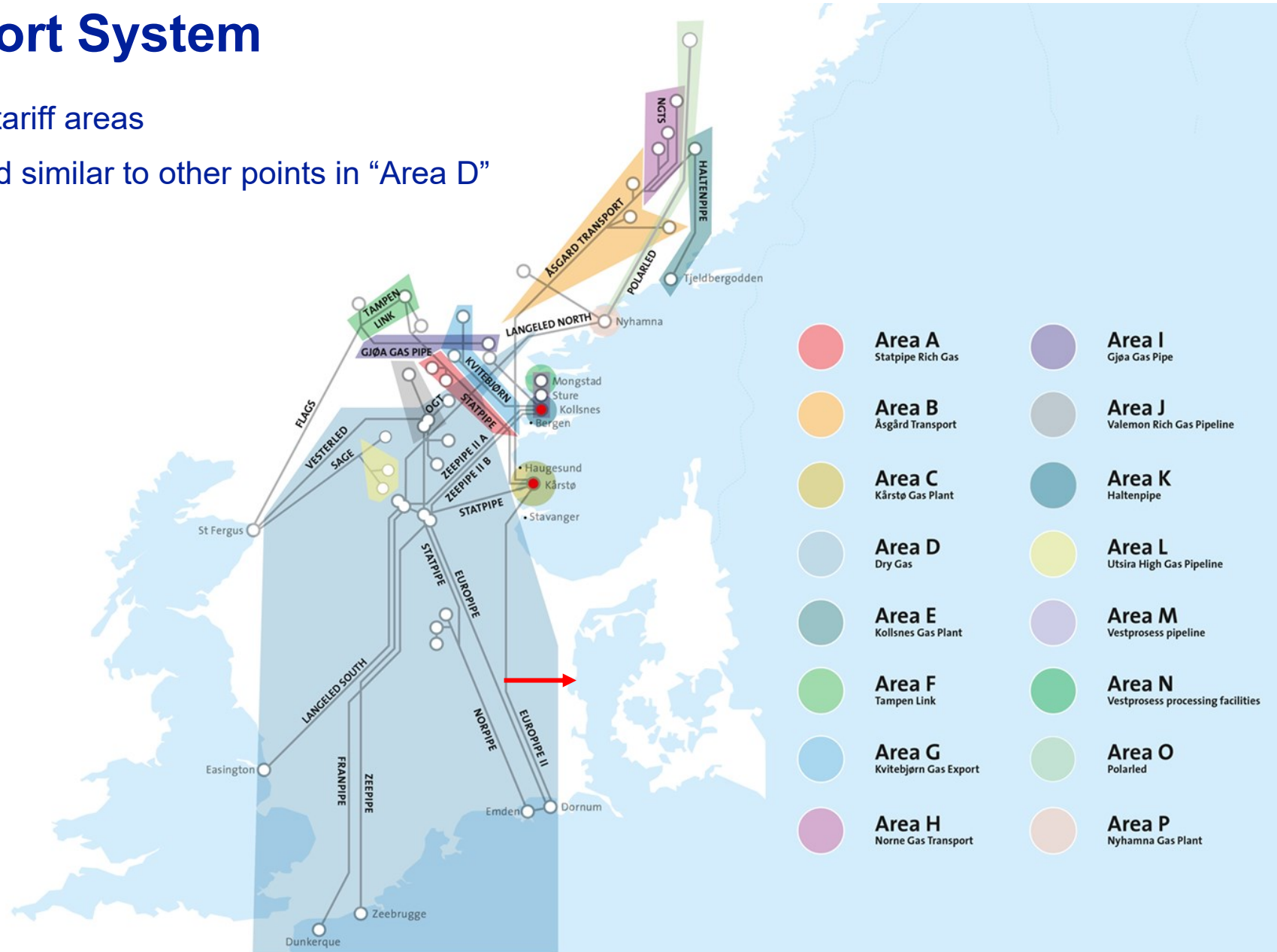
The integrated Norwegian gas transport system

- Number of active shippers in daily operation; approx. 30
- Number of licenses (“fields”) using the transport system; approx. 65
- Current NCS production from Gassco operated systems; approx. 300 MSm³/d (daily record of approx. 375 MSm³/d)
- 2020 Delivery 107 BCM gas and 9,5 million tonnes NGL/condensate



Gassco Transport System

- Regulated booking and tariff areas
- Nybro Exit D14 regulated similar to other points in “Area D”
- Current tariffs



Principles for transporting gas

- Shipper qualification
- Access to relevant Gassco websites (incl. any 3. party)
- Acquire booking in relevant transport areas (or points in Areas)
- Daily dispatch process
- Allocation

How to become a Shipper

- Requirements
 - Qualified Need
 - Financial qualification
- Further details described in the [Gassco Booking Manual](#)
- Please contact capacity.booking@gassco.no for further enquiries.

Capacity reservation process (1/2)

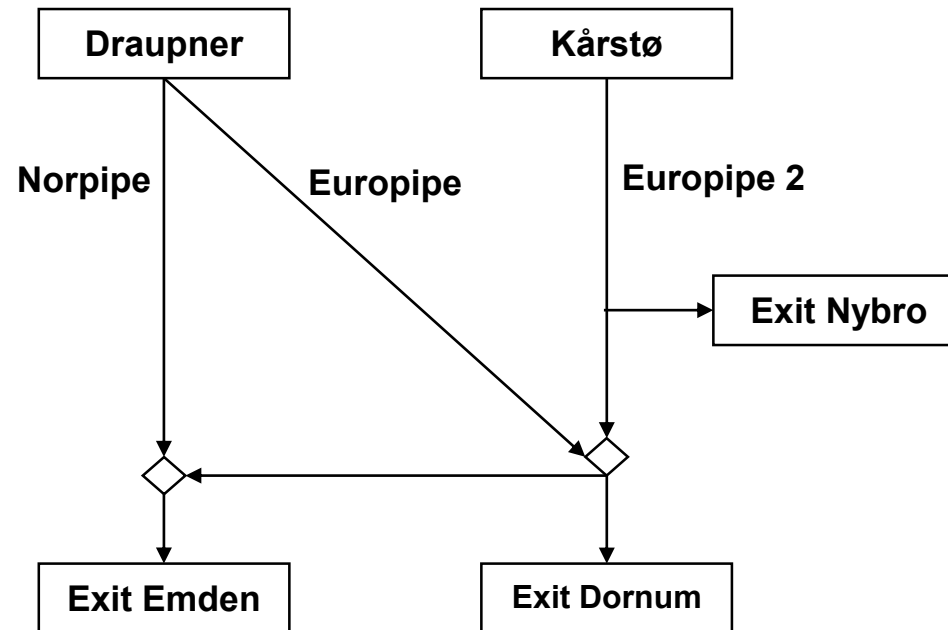
- Rights for reserving capacity is determined by the Qualified Need (DSRN)
- Types of capacity products
 - LT – Capacity for all days in a gas year
 - MT – Capacity for all days in a months
 - ST/Interruptible – Capacity for a gas day
- Methods of offering capacity by Gassco
 - Bi-annual booking rounds (April and September)
 - ST/MT FCFS
 - Facilitation of a secondary market

Capacity reservation process (2/2)

- Methods for offering and allocation of capacity by Gassco ;
 - All new primary capacity offered in Initial booking rounds, later FCFS
 - If shippers request exceed available capacity in an initial booking round, a Capacity Allocation Key is applied (CAK)
 - Fully booked areas may be subject to “Negative New Need” booking rounds
 - Facilitation of a secondary market
- Tariff based on relevant booking object
 - Capacity via the secondary market may have discount/premium
- All processes handled via the GBS system (Gassco Booking System) which for example give the shippers overview of;
 - Available DSRN
 - Available capacity for the various booking areas and periods
 - CAK (capacity allocation key)
 - Access to data on company - and sum level for any booking area (DSRN/booking)
 - Booking request handling

Nybro exit point – capacity status Gassco operated

- Nybro Exit D14 will be connected to the EP2 pipeline
- Capacity offered at Nybro Exit D14 must be seen in conjunction with capacity towards Germany (Emden and Dornum)
- First offering of booking at Nybro Exit D14 in the September 2021 Booking Round



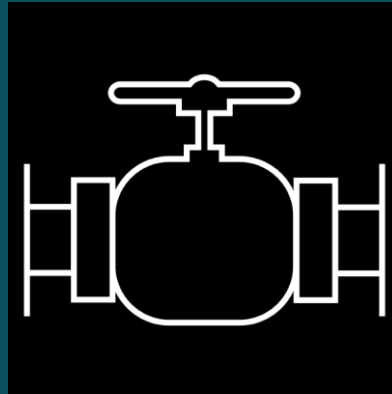
Interaction with Gassco

- Public website www.gassco.no
- UMM – Urgent Market Messaging <https://umm.gassco.no/>
- Established foras where shippers are represented
 - Operating Forum
 - Infrastructure Advisory Board



BREAK



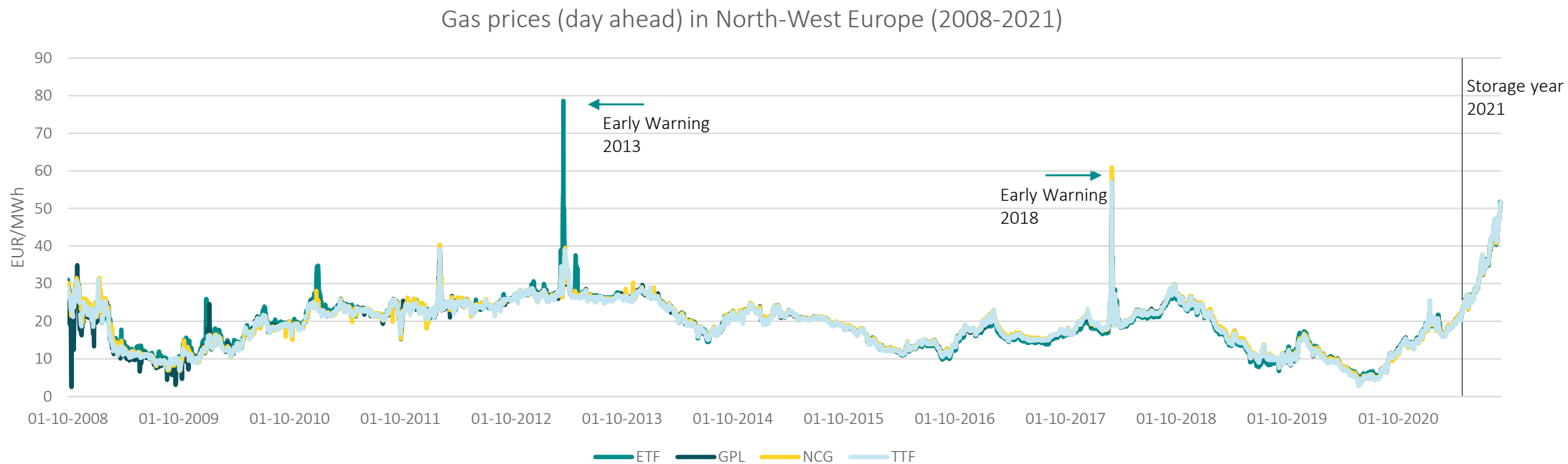


CURRENT MARKET SITUATION AND COMING WINTER

Christian Meiniche Andersen & Camilla Mejdahl Mikkelsen,
Energinet

UNUSUAL GAS MARKET

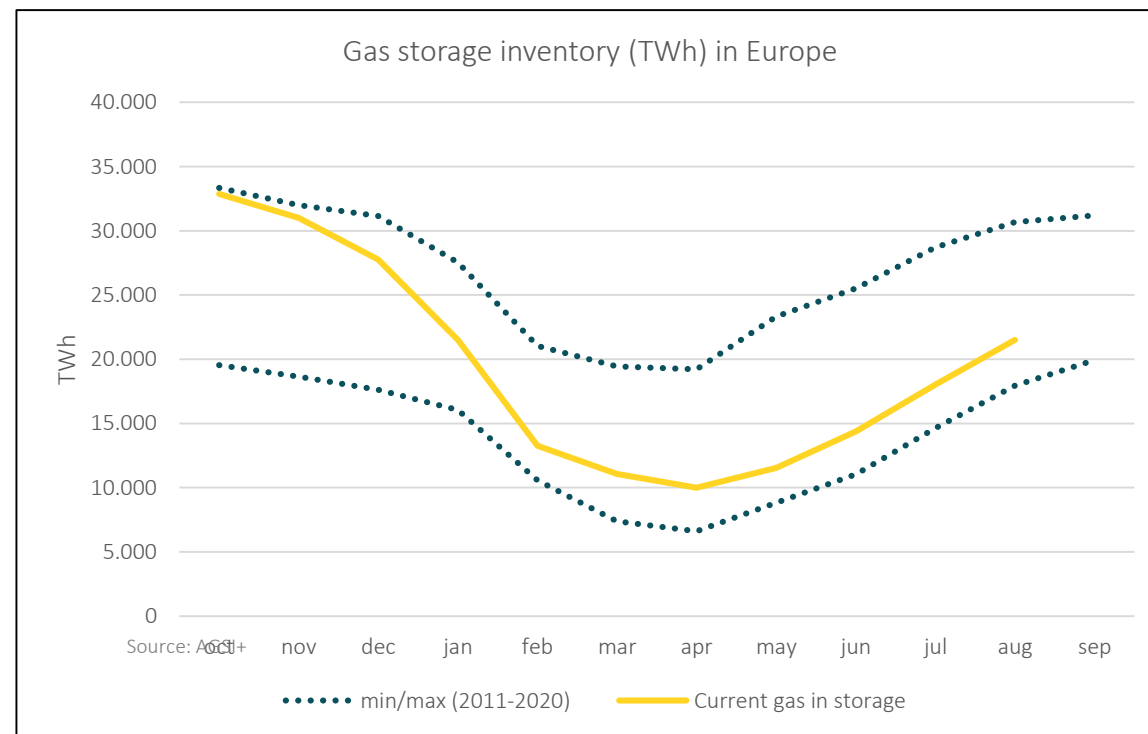
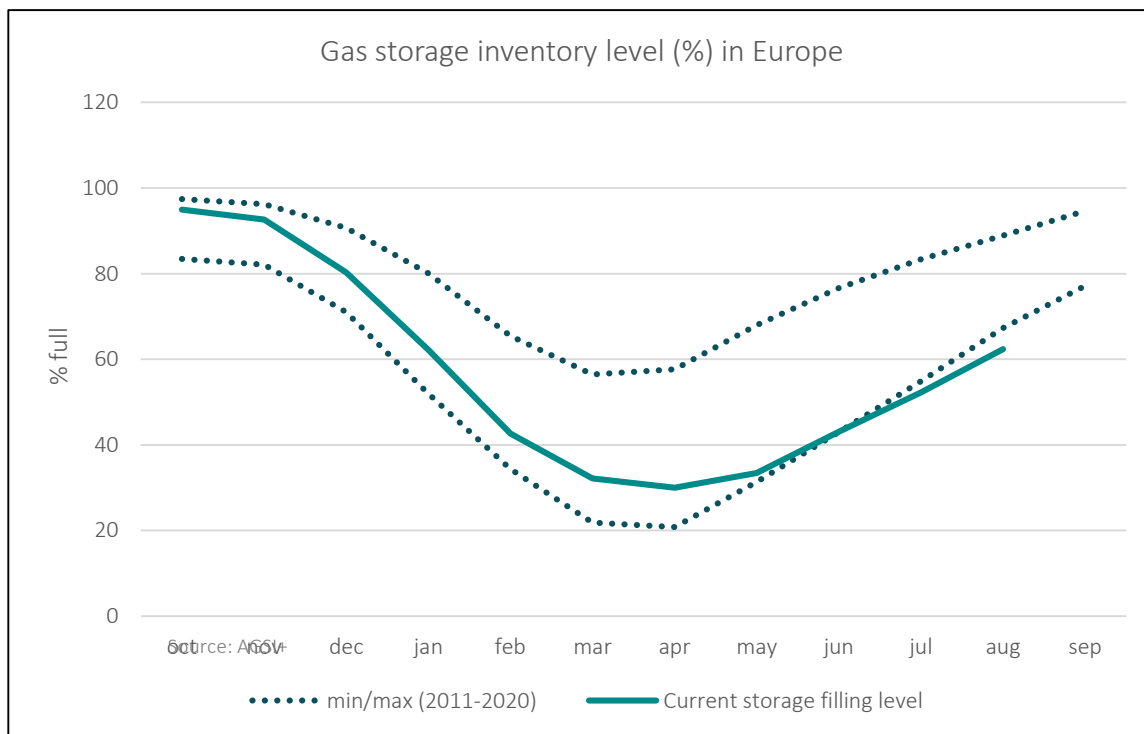
Record-high gas prices.



Source: Gaspool, Spectron and EEX

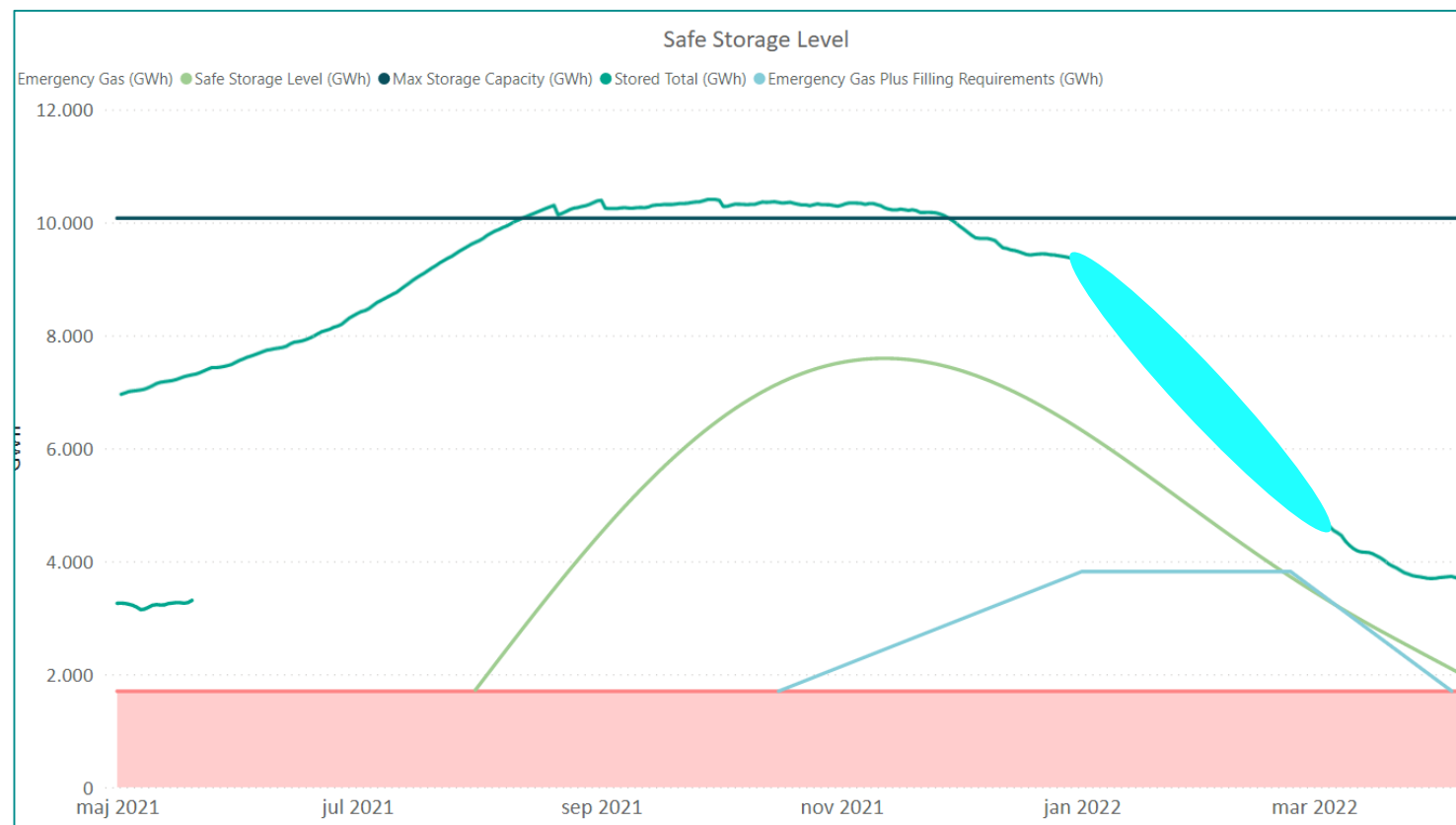
UNUSUAL GAS MARKET

Low storage filling.



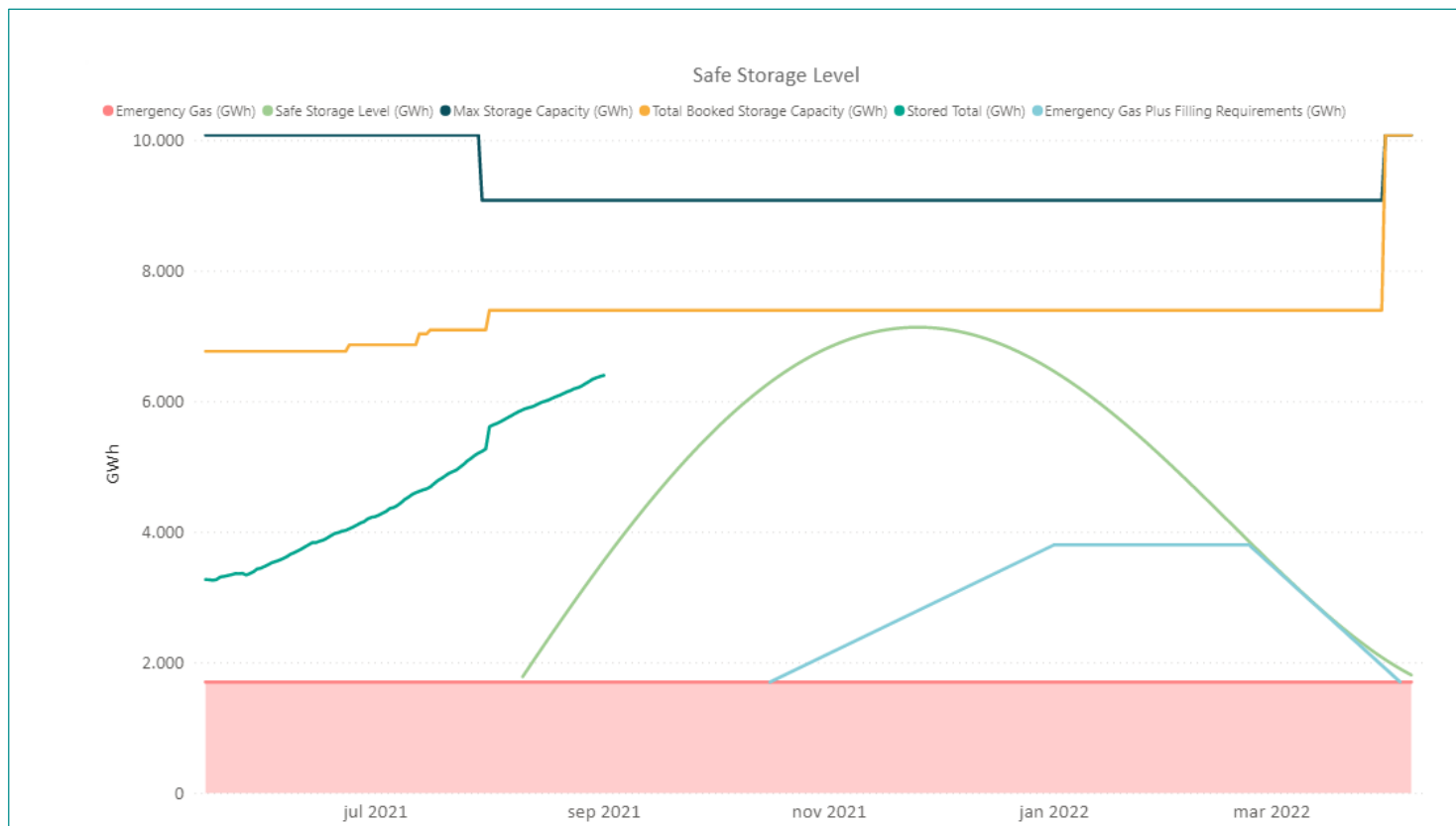
SAFE STORAGE LEVEL 2020/2021

- Safe Storage Level (green curve) expresses the necessary gas from storage to maintain safe supply rest of the storage year
- Actual storage filling was in 2020/2021 well above the Safe Storage Level until February 2021
- Cold spell in February-March was supported by high withdrawal from the storage facility



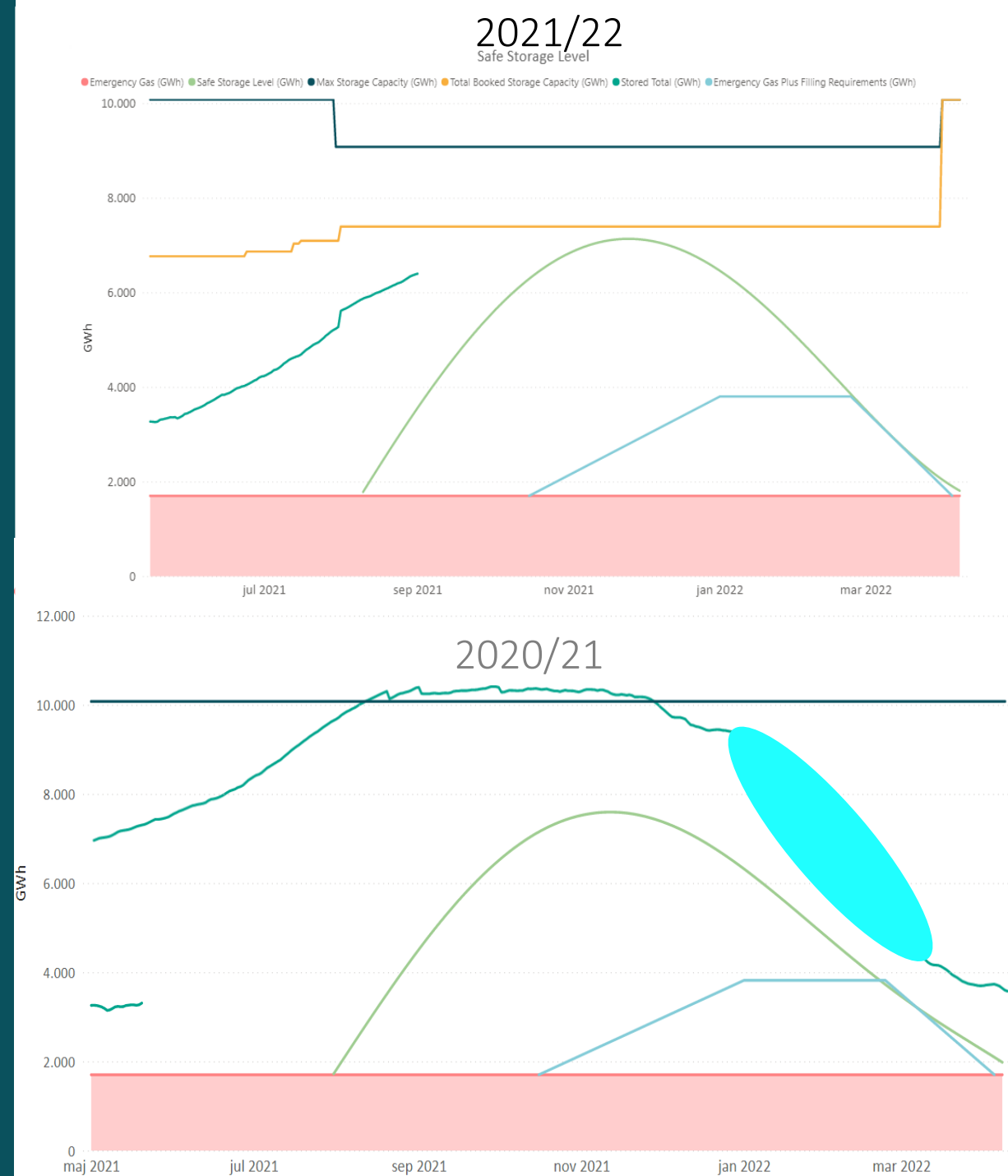
SAFE STORAGE LEVEL 2021/2022

This year sold capacity (yellow line) is just above the Safe Storage Level (green curve)



STORAGE FILLING

- Sold capacity \geq Safe storage level
- Smaller margin for market to balance system during Q1 22
- Special attention to storage filling is important to maintain safe supply rest of the storage year
- Important experience from cold period February/March 2021



QUESTIONS



Contact: can@energinet.dk

—
**GAS
STORAGE
DENMARK**
—

SHIPPERS FORUM

9 SEPTEMBER 2021

1. STATUS 2021

- the market situation
- GSD's auctions of capacity & gas loan
- the consequences

2. STATUS 2022-26

3. NEW CUSTOMER WEB PORTAL GO-LIVE 20/9

4. NO INJECTION RESTRICTION DUE TO FULL STORAGE THIS YEAR

STATUS 2021

SPREADS 06/09-2021 EUR/MWh

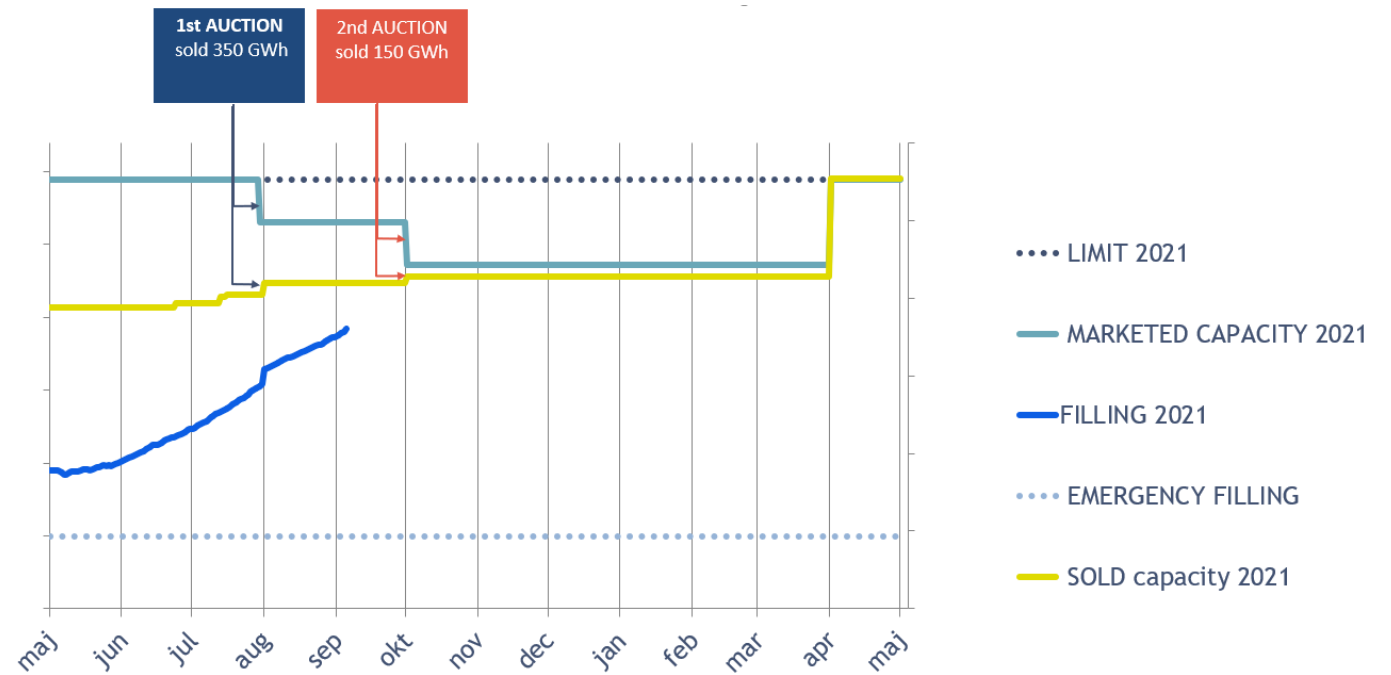
	Q1 22-Q4 21	SY22	SY23	SY24	SY25
TTF	-1,85	0,52	1,50	1,60	1,63
NCG	-1,70	0,43	1,39	1,50	1,50
GPL	-1,70	0,43	1,39	1,50	1,61

	DA-MA	Q1-Nov	Q1 22-Q3 22	DEC 21-Q3 22	Q4 21-Q3 22
TTF	-0,40	-1,88	22,18	23,63	24,03
NCG	-0,09	-1,70	21,59	23,14	23,29
GPL	-0,13	-1,70	21,59	23,29	23,29



THE MARKET SITUATION

- ❑ AUCTIONS OF CAPACITY & GAS LOAN
- ❑ THE CONSEQUENCES
- ❑ 531 GWh ARE STILL AVAILABLE



STATUS 2022-26

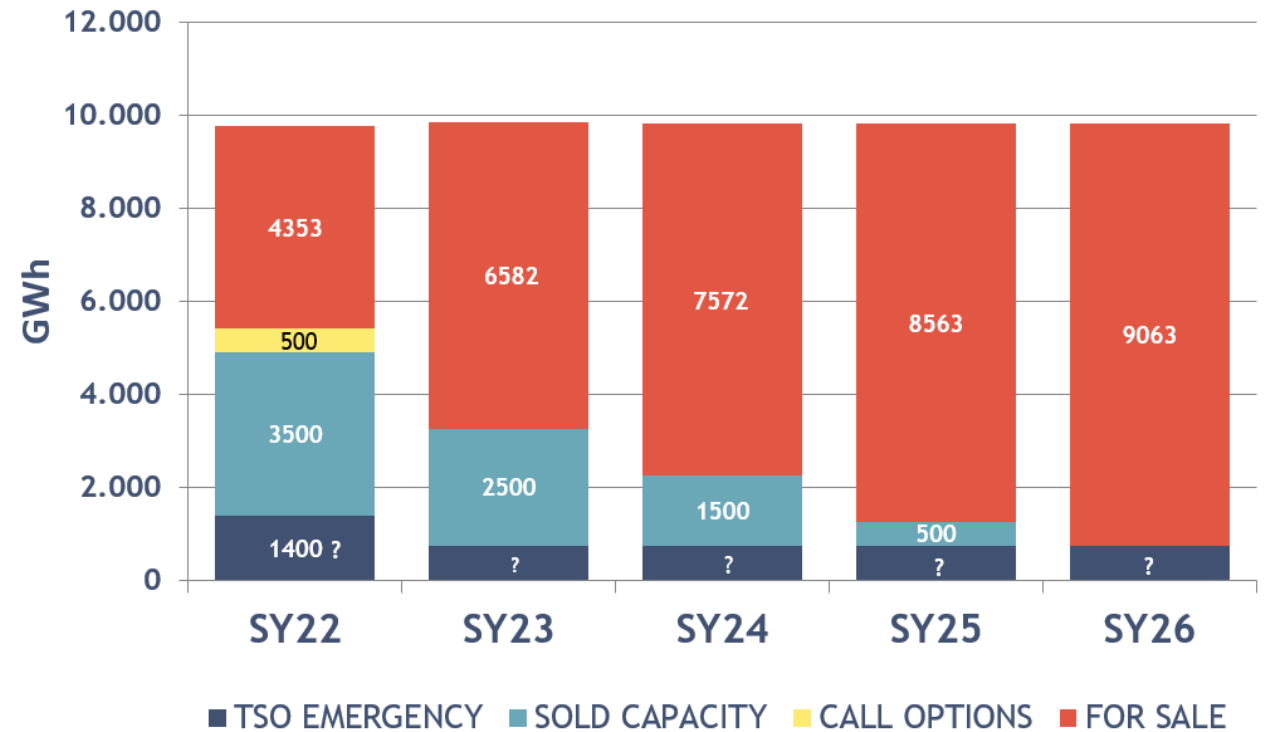
❑ 4353 GWh available for sale

Pricing:

- 120/60: 4.0 €/MWh/year
- 170/85: 3.5 €/MWh/year
- 170/170: 3.0 €/MWh/year

Additional flex:

- Injection: 750 €/MW/year
- Withdrawal: 2,100 €/MW/year



NEW CUSTOMER WEB PORTAL GO-LIVE 20/9



A temporary CUSTOMER PORTAL will go live and ONLINE will be discontinued without fallback procedure on

20th September 2021 at 06:00 a.m. Danish time

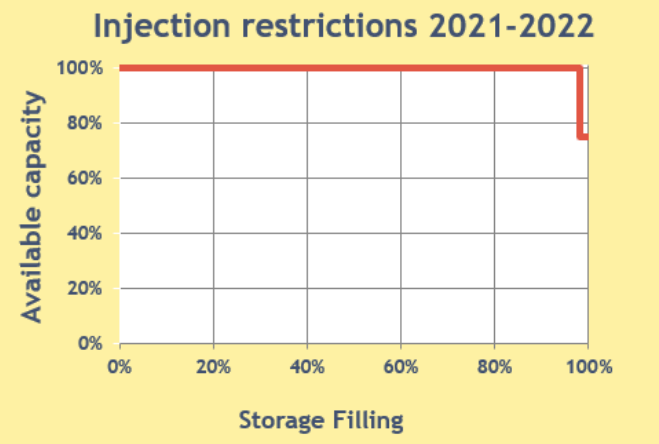
- The new CUSTOMER PORTAL will be in use until October 2022
- There will be published a short amendment to RGS ver. 15 in respect of online transfers & online sale
- Prior to GO-LIVE, GSD will submit a login and guidelines by mail to each current user of ONLINE



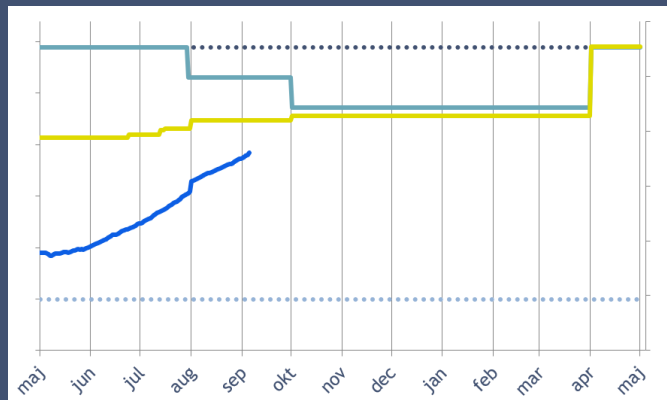
GSD has initiated a cooperation with Sopra Steria for the delivery of a new state-of-the-art storage system. The implementation process has already started and will be completed by October 2022

A new modern customer web portal will be also part of Sopra Steria's delivery to GSD

NO INJECTION RESTRICTION DUE TO FULL STORAGE THIS YEAR



- ☐ All firm injection capacity is available when the storage filling is below 95%
- ☐ Only 75% of the booked injection capacity is available when the gas storage facility is filled up to 95% or more




GSD guarantees that no injection restriction will be imposed on the booked firm injection capacities due to high storage level this year


QUESTIONS?

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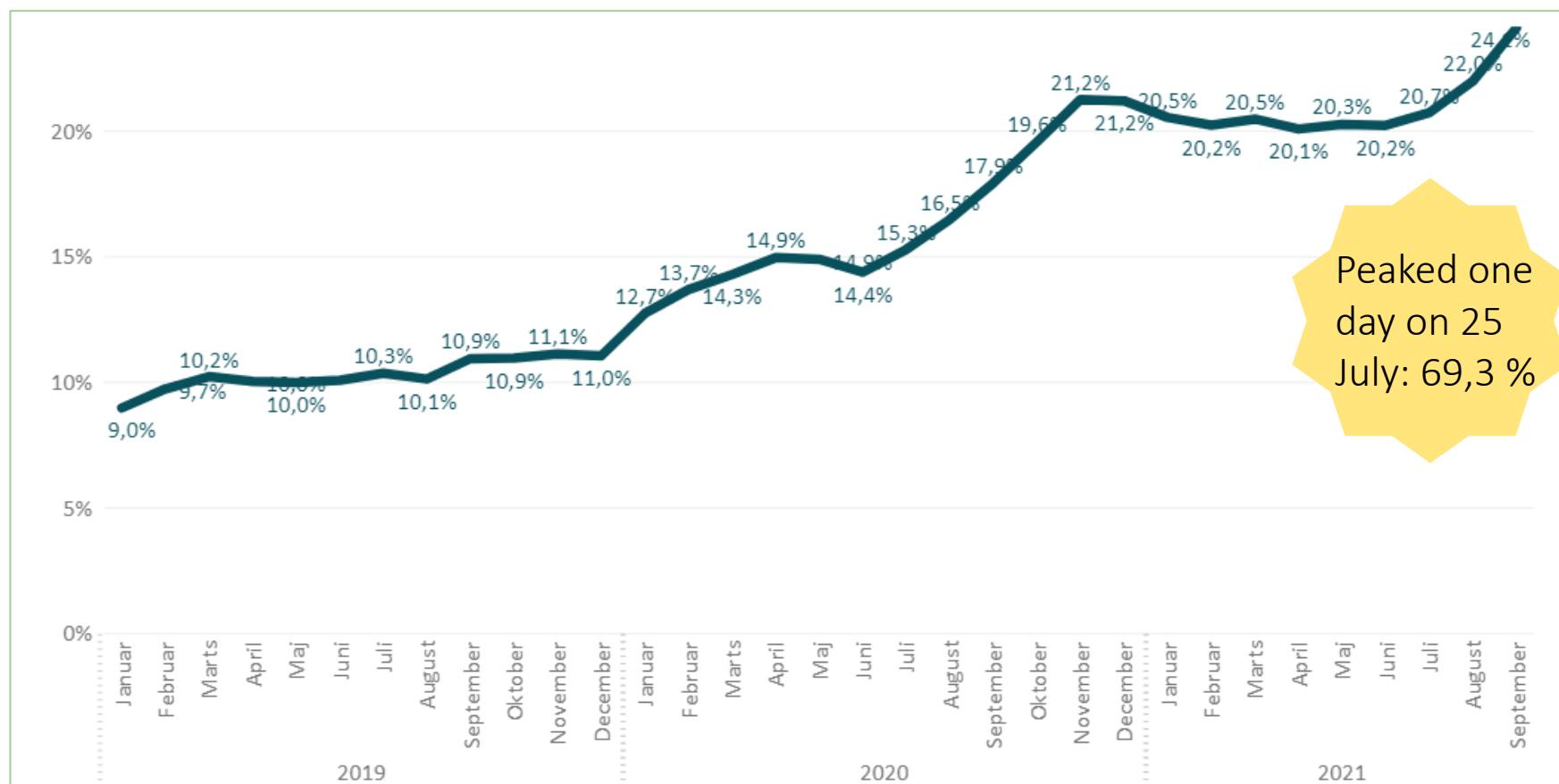


FINAL REMARKS

Clement Johan Ulrichsen, Energinet Gas TSO

BIOGAS PRODUCTION AT 49% IN JULY

Amount of biogas injected to the gas grid relative to the total Danish consumption



QUESTIONS



Contact: cju@energinet.dk