



SHIPPERS' FORUM

7 March 2019





WELCOME

Clement Johan Ulrichsen, Energinet Gas TSO



HOST



EMERGENCY
EXIT



DEFIBRILLATOR
(AED)



MEETING POINT

PROGRAMME

12.00	Lunch and networking
13.00	Welcome <i>Clement Johan Ulrichsen, Energinet Gas TSO</i>
13.15	Preparing for the New EU Gas Package <i>Mads Lyndrup, Danish Utility Regulator</i>
13.25	Gas Strategy <i>Torben Brabo, Energinet Gas TSO</i>
13.45	Implicit Allocations and Customer Focus <i>Thibault Villedieu de Torcy, PRISMA</i>
14.05	Sales Status for Gas Storage <i>Hans-Åge Nielsen, Gas Storage Denmark</i>

14.25 Coffee break and networking

14.55	Tyra Redevelopment <ul style="list-style-type: none">• Safe Storage Level– <i>Christian Meiniche Andersen, Energinet Gas TSO</i>• Seasonal tariffs – <i>Lasse Trøjborg Krogh, Energinet Gas TSO</i>
15.15	Stronger Balancing Signal <i>Julie Frost Szpilman, Energinet Gas TSO</i>
15.25	Joint Balancing Zone <i>Signe Louise Rasmussen, Energinet Gas TSO</i>
15.35	Incremental Capacity <i>Christian Rutherford, Energinet Gas TSO</i>
15.45	Baltic Pipe North Sea Entry <i>Michael Brock, Energinet Gas TSO</i>
15.55	Final Remarks <i>Clement Johan Ulrichsen, Energinet Gas TSO</i>

WHO IS WHO...

CATHRINE
SØEGAARD

+4530923149

CSO@energinet.dk

✓ General support



SIGNE LOUISE
RASMUSSEN

+4561244379

SLR@energinet.dk

✓ General support



CHRISTIAN
RUTHERFORD

+4523338908

CRU@energinet.dk

✓ 2nd-in-line General
Support



CLEMENT JOHAN
ULRICHSEN

+4530923110

CJU@energinet.dk



WHO IS WHO...

LASSE TRØJBORG
KROGH

+4522920929

LTK@energinet.dk

- ✓ Tariffs
- ✓ Emergency Gas
- ✓ Filling Requirements



NINA SYNNEST
SILVANI

+4523338902

NSY@energinet.dk

- ✓ Tariffs



CAMILLA
MEJDAHL
MIKKELSEN

+4551677860

CMJ@energinet.dk

- ✓ Market surveillance
- ✓ Emergency gas
- ✓ Filling requirements



JULIE FROST
SZPILMAN

+4570102244

JFS@energinet.dk

- ✓ Market surveillance



REMEMBER TO SIGN UP TO 'GAS NEWS'

[Click here to sign up for 'Gas News'](#)

Information includes:

- Invitations (Shippers' Forum, User Groups, Workshops etc.)
- Market Consultations
- Presentations
- Etc.

The screenshot displays the ENERGINET website interface. At the top, there is a navigation bar with the ENERGINET logo and menu items: ELECTRICITY, GAS, INFRASTRUCTURE, MORE, DA | EN, and LOGIN. Below this, a secondary navigation bar highlights the 'GAS' section. The main content area features several news articles:

- MARKET CONSULTATION ON SEASONAL GAS TARIFFS DURING TYRA REDEVELOPMENT**: Published 10.1.2019 13.23. The article discusses the Tyra redevelopment period and invites shippers to a User Group meeting on 10:00 to 12:00 CET at Batterup. It includes contact information for gasinfo@energinet.dk.
- NEW UPDATE ON THE GAS SUPPLY AND DEMAND SITUATION 2019-2022**: Published 21.12.2018 13.08. The article provides a more detailed description of the supply and demand situation, mentioning a Shippers Forum on 13 December 2018. It includes a contact person, Jess Bernt Jansen, and a phone number +45 23 33 87 58.
- MARKET CONSULTATION ON SEASONAL GAS TARIFFS DURING TYRA REDEVELOPMENT**: Published 2.1.2019 14:00. This article also discusses the Tyra redevelopment period and the User Group meeting.

On the right side of the page, there are several contact boxes and a 'SUBSCRIBE TO GAS NEWS' button. One contact box is for Christian Allan Rutherford (cra@energinet.dk, +45 23 33 89 88). Another is for Cathrine Seegaard (cs@energinet.dk, +45 38 92 31 49). There is also a section titled 'ABOUT SHIPPERS' FORUM' which describes the forum as a cooperation forum on the Danish gas market. At the bottom right, there is a link to the 'PRESENTATION SHIPPERS' FORUM 13 DECEMBER 2018'.

ENERGINET NOW OFFERS AS4 COMMUNICATION

Fulfilment of Network Code on Interoperability and Data Exchange

Safer data communication

EDIG@S

- XML 4.0
- XML 5.1

PROTOCOL

- AS2
- AS4

MORE INFORMATION

- www.energinet.dk

BALANCING MEASURES APPROVED BY DUR

3 new measures enter into force on 1 April 2019

1. Removal of price caps

- Marginal yellow zone trade prices (35 per cent)
- Neutral gas price (10 per cent)

2. New method: Adjustment step 2 price

- Highest alternative (Ellund or storage) calculated for each month
- Prices for coming months (April-September) listed

3. New method: Imbalance price in Emergency

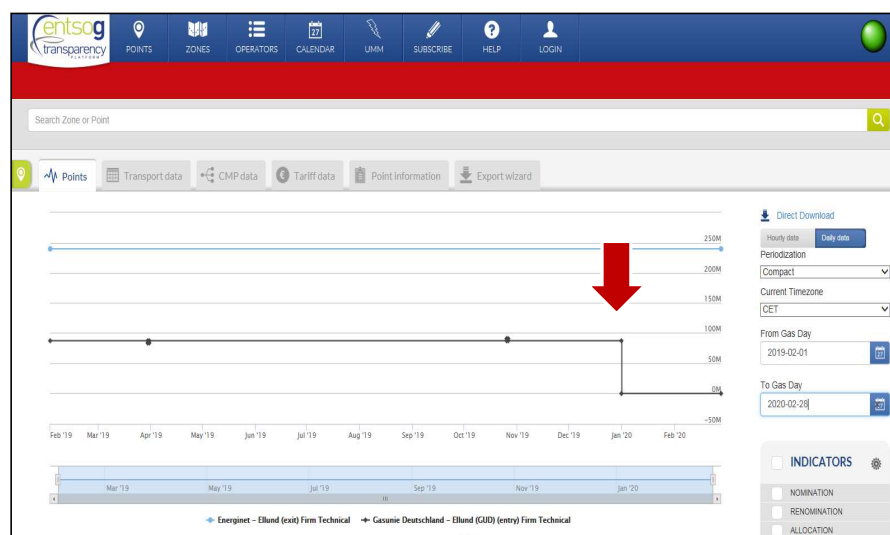
- Highest day-ahead price during storage season at either GPN, NCG or GASPOOL
- Current season price: **29,806 EUR/MWh** (GASPOOL, 24 Sep. 2018)

Month in 2019	Incentive relative to Neutral Gas Price
April	10 pct.
May	5 pct.
June	5 pct.
July	5 pct.
August	5 pct.
September	5 pct.

2020: NO FIRM SOUTHBOUND CAPACITY

From 1 Jan. 2020 GUD will reduce the southbound firm capacity at Ellund to zero
 Make your voice heard in the incremental capacity process

- Graph shows capacity in direction of Gasunie Deutschland (GUD)
- Capacity reduction also after Tyra edevelopment
- If you need firm Ellund southbound:
 - Incremental capacity process in summer 2019
 - Please indicate in non-binding assessment form

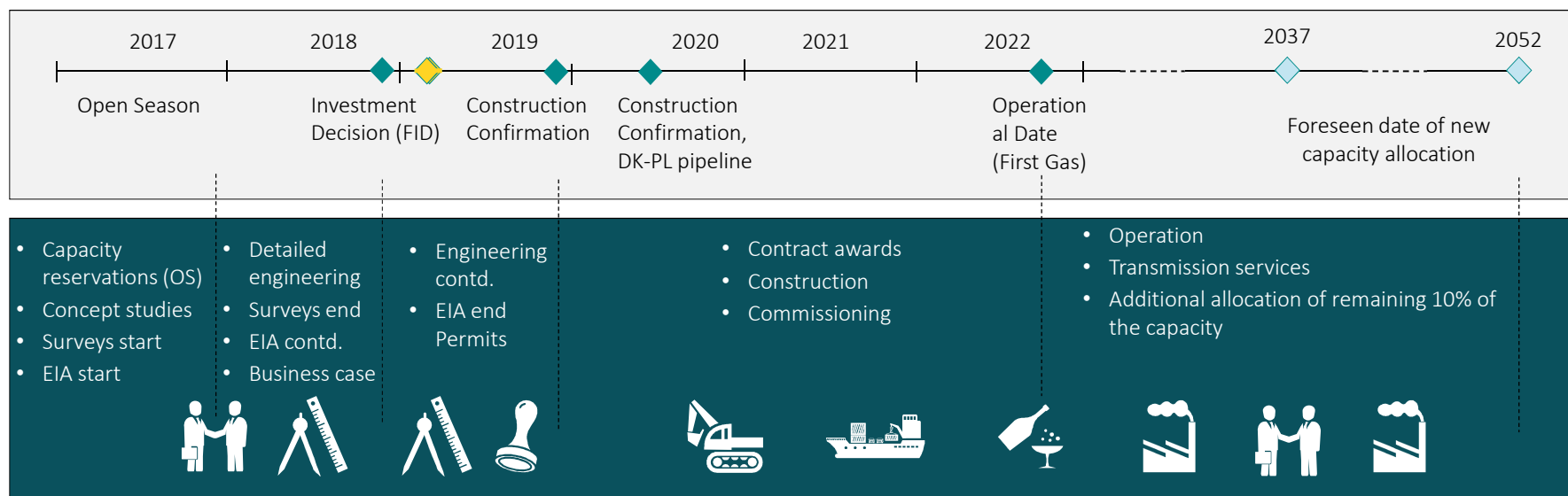


BALTIC PIPE PROJECT ON TRACK

Environmental Impact Assessment in Denmark: Public consultation from 15 Feb. to 12 April 2019.

Cross Border Environmental Impact Assessment (Espoo) consultation ongoing

Continued Engineering



QUESTIONS



Contact: cju@energinet.dk



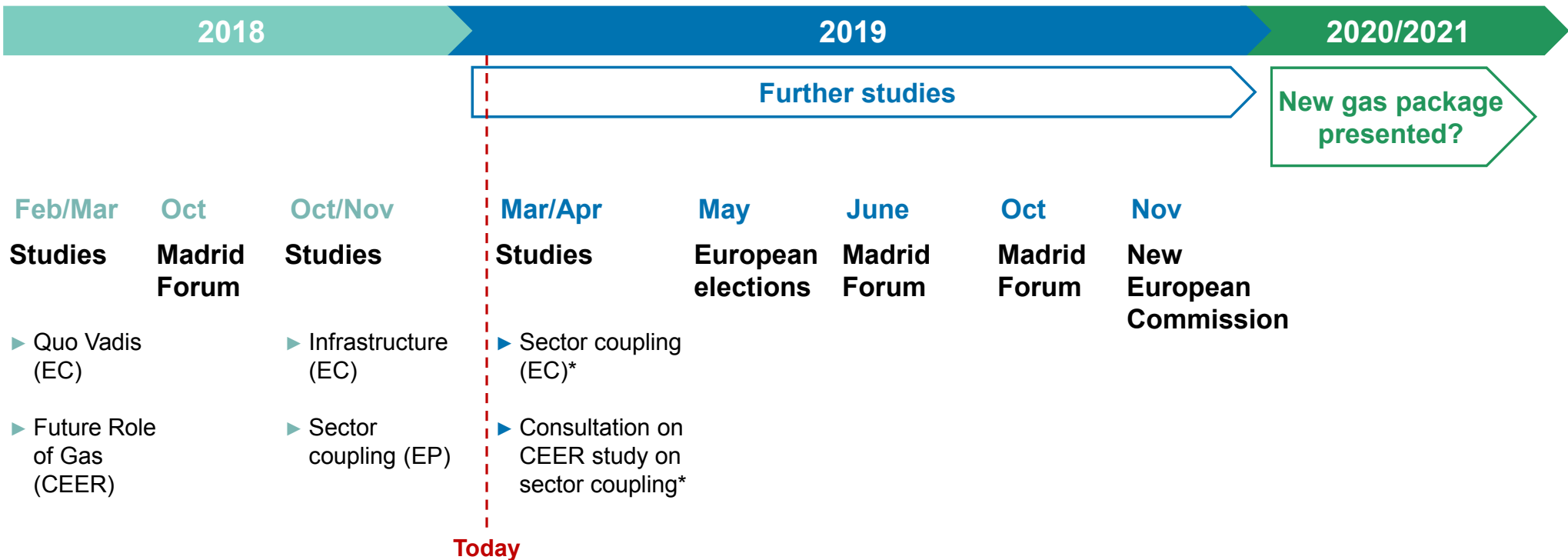
Danish
Utility Regulator

Preparing for the new EU gas package

Presenter/
Mads Lyndrup

Date/
07.03.2019

The road towards the new EU gas package



* Expected timing

The focus areas for the new EU gas package

Mirroring the Clean Energy Package (CEP)

- Governance and institutional measure, e.g. new DSO entity
- Consumer rights and protection
- Open and fair retail markets
- Digitalisation

Upgrading the EU gas market and market rules

- Regulatory barriers for wholesale markets, e.g. trade licensing
- Improve market liquidity: Capacity and commodity release
- Tariffs: TSO revenue and pancaking
- LNG terminal regulation
- Tailor made regulation for underperforming markets

Sector coupling – the future role of gas in decarbonisation

- Regulatory framework for renewable and low-carbon gases, e.g. unbundling principles and guarantees of origin
- Maturity of sector coupling and renewable gas technologies
- Infrastructure planning
- Hydrogen and power-to-gas
- Interoperability across markets

Information sharing and market dialogue

DUR would like to...

- ▶ understand all relevant challenges, barriers and opportunities in preparation of the new gas package
- ▶ collected feedback and input to be used in DUR's work with CEER and ACER

Facilitation of information

- ▶ DUR collects and shares the most relevant information and studies:
<http://forsyningstilsynet.dk/tool-menu/kontakt-og-presseinfo/nyheder/enkelt-nyhed/artikel/udvikling-af-ny-gasregulering-i-eu-gaspakken-2020/>

Market dialogues

- ▶ DUR will invite market participants to provide feedback and ideas on the focus areas for the new EU gas package

Relevance of CEP initiatives for the gas market?

Can market functioning be improved? How?

Which barriers and challenges do you see for upgrading the gas market rules?

How to improve sector coupling and provide cost effective flexibility to the system?

Which barriers and challenges do you see for improved sector coupling?

Studies and discussions (1/2)

Study on Quo Vadis EU gas market regulatory framework (Quo Vadis)

European Commission, February 2018

<https://ec.europa.eu/energy/en/studies/study-quo-vadis-gas-market-regulatory-framework>

Study on the Future Role of Gas from a Regulatory Perspective (FROG)

CEER, March 2018

<https://www.ceer.eu/documents/104400/-/-/6a6c72de-225a-b350-e30a-dd12bdf22378>

31st Madrid Forum

October 2018

https://ec.europa.eu/info/events/madrid-forum-2018-oct-17_en

All Madrid Forums

<https://ec.europa.eu/energy/en/madrid-forum-previous-meetings>

Interview with the Commission about the gas package (Klaus-Dieter Borchardt, DG ENER Deputy DG, EC)

January 2019

https://www.youtube.com/watch?v=qHCAc_5Yrh4&feature=youtu.be&utm_source=FSR+Energy+%26+Climate+Newsletter&utm_campaign=0429bbcd73-EMAIL_CAMPAIGN_10_18_2018_14_15_COPY_01&utm_medium=email&utm_term=0_d7cd3bc7fc-0429bbcd73-66778365

Studies and discussions (2/2)

Sector coupling and the future role of gas

Study on gas infrastructure in the light of the 2050 decarbonisation targets - European Commission October 2018

<https://publications.europa.eu/en/publication-detail/-/publication/1796ecd6-cb71-11e8-9424-01aa75ed71a1/language-en/format-PDF/source-search>

Study on sector coupling - European Parliament, November 2018

<https://publications.europa.eu/en/publication-detail/-/publication/858d789d-f132-11e8-9982-01aa75ed71a1/language-en/format-PDF/source-search>

Study on sector coupling: links between gas and electricity - European Commission, *expected in March 2019*

Study on sector coupling - CEER, *public consultation expected in March 2019*

Upgrading the gas market

Study on tailor made regulation for underperforming markets - European Commission, *expected in mid-2019*

Study on enhancing liquidity by gas and capacity release programs - European Commission, *expected in mid-2019*

Study on distortive effects of non-harmonised tariffs - European Commission, *expected in mid-2019*

Study on regulatory barriers to wholesale markets - European Commission, *expected in mid-2019*

Study on regulatory framework for LNG terminals - European Commission, *expected in 2019/2020*

Thank you for your attention

For an overview of material related to the new gas package, please visit our website:

”Udvikling af ny gasregulering i EU - gaspakken 2020”

<http://forsyningstilsynet.dk/tool-menu/kontakt-og-presseinfo/nyheder/enkelt-nyhed/artikel/udvikling-af-ny-gasregulering-i-eu-gaspakken-2020/>

Contacts at the Danish Utility Regulator:

Henrik Nygaard Jensen, Chief Advisor

HNJ@forsyningstilsynet.dk

Maria Holm Bohsen, Special Advisor

MHB@forsyningstilsynet.dk



GAS STRATEGY

Torben Brabo, Energinet Gas TSO



STRATEGY 2020

ENERGY

ACROSS **BORDERS**

VISION

A BALANCED AND SUSTAINABLE ENERGY SUPPLY

OBJECTIVES 2020

ENERGY HUB

NEW SECURITY OF SUPPLY

SOCIAL RESPONSIBILITY

DIGITALISATION

STANDPOINT

OUR COMMITMENTS

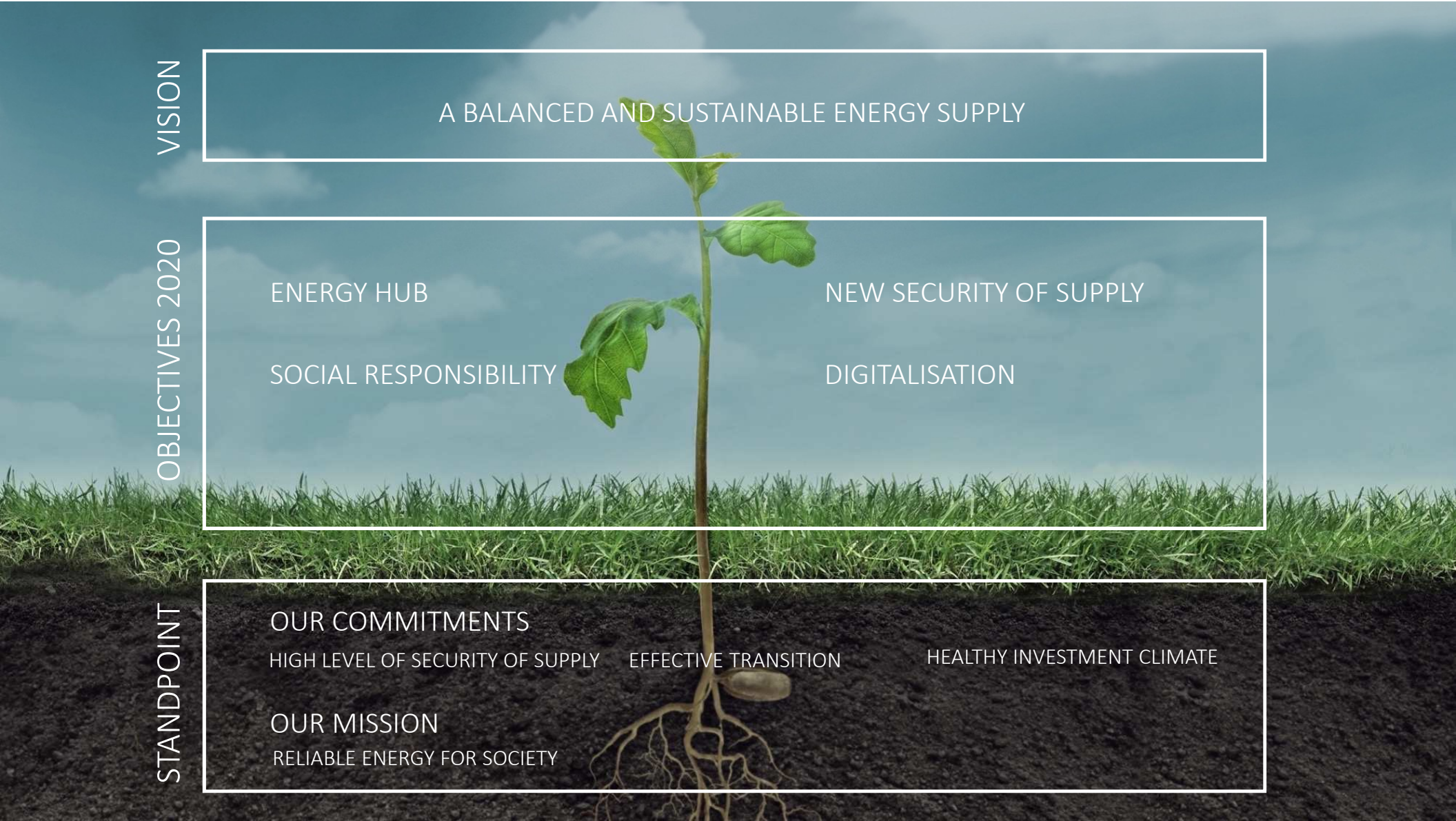
HIGH LEVEL OF SECURITY OF SUPPLY

EFFECTIVE TRANSITION

HEALTHY INVESTMENT CLIMATE

OUR MISSION

RELIABLE ENERGY FOR SOCIETY



POLITICAL WILL FOR A GREEN FUTURE



REFORM OF EU GAS REGULATION

"Full electrification is not sustainable...The future energy system be based on several forms of energy", "The sector must now prove that gas is a part of the long term solution", "The challenge facing renewable gas technology now is to bring it large-scale," (..) "We need to bring prices down"

- Klaus Dieter Borchardt, director, DG Energy om gaspakke 2020



DANSK GASSTRATEGI

"(...)Strategien vil også se på rammevilkårene for en konkurrencedygtig udbygning med biogas og andre grønne gasser samt de samlede balancer i den danske gassektor, (...) mulige scenarier for en langsigtet udfasning af naturgas (...) [og] muligheder for at omdanne og lagre elektricitet som gasformigt brændsel eksempelvis via metanisering.

-Energiaftale 29. juni 2018





ENERGY

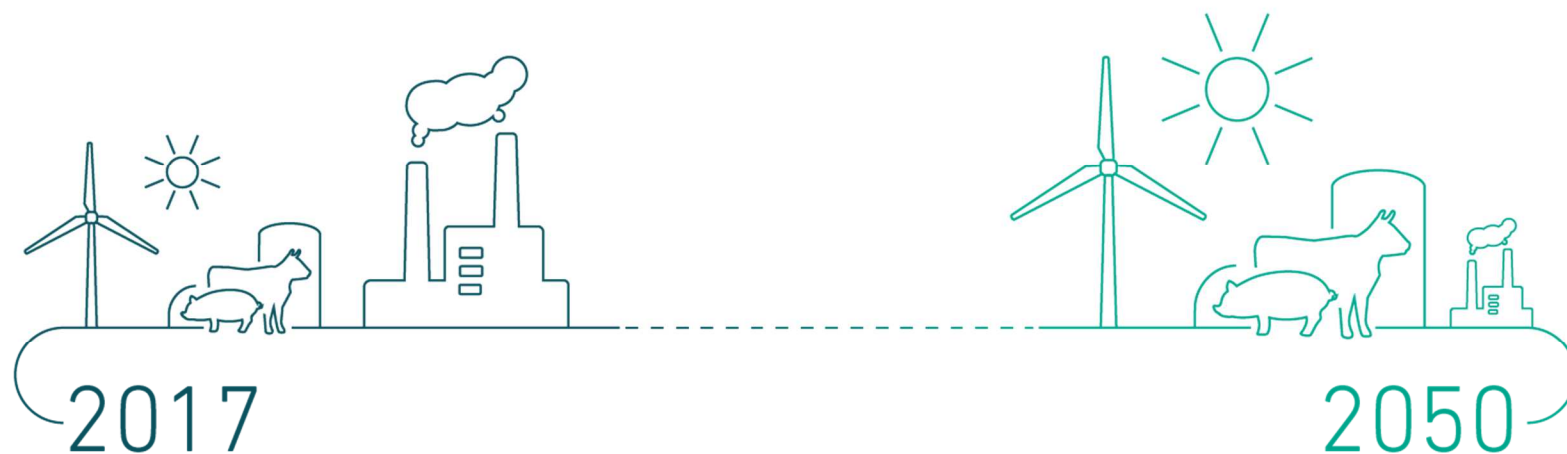
BECOMES SUSTAINABLE

In 2050, all energy in Denmark
must come from
renewable energy sources

THE ENERGY SYSTEM IS CHANGING

Europe is in the middle of a historic transition of the energy system – Denmark has a leading position

- By 2020, wind power must constitute 50% of the electricity consumption; in 2017 it constituted 43,4%.
- In 2050, Denmark must be completely independent of fossil fuels



Tyra



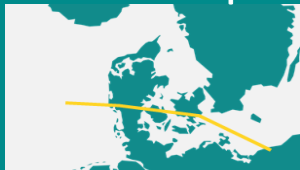
NEW SECURITY OF SUPPLY
FRAMEWORK

Green gas



SOCIAL RESPONSIBILITY
THROUGH EFFICIENCY

Baltic Pipe



DENMARK AS AN ENERGY HUB



DIGITALISATION

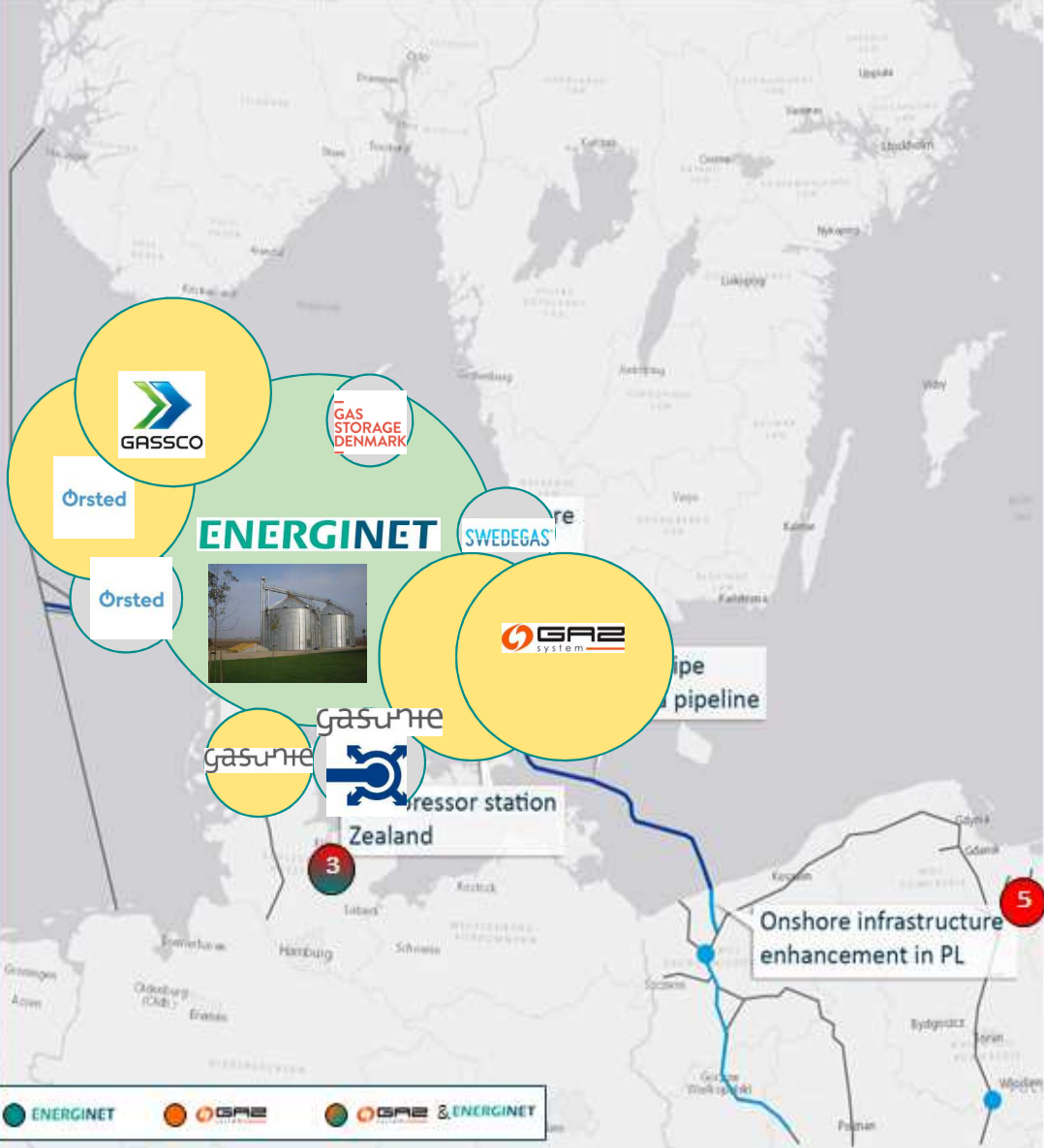


ENERGY

REQUIRES COOPERATION

The green transition requires cooperation across countries and energy systems.

INCREASED SYSTEM COMPLEXITY



NEW STAKEHOLDERS IN ENTIRE VALUE CHAIN

North Sea Producers



nordsøfonden

TOTAL

INEOS
Oil & Gas Denmark

Shippers



MAERSK OIL seas-nve

dc WINGAS

Göteborg Energi Shell

modity Chevron

nature energy Ørsted

e-on Sverige DCC energi

uni per NEAS ENERGY

Energi Danmark

RWE SUPPLY & TRADING

Suppliers



eniig seas-nve

DCC energi gasel

e-on EWii

AALBORG NATURGAS SALG

FRIenergy Energi Fyn

Energi Danmark

SEF SE

Ørsted OK

Bio Natural Gas Sellers



BioManS

eniig

e-on

FREMSYN

nature energy

seas-nve

Ørsted

BALANCING THE OPPORTUNITIES

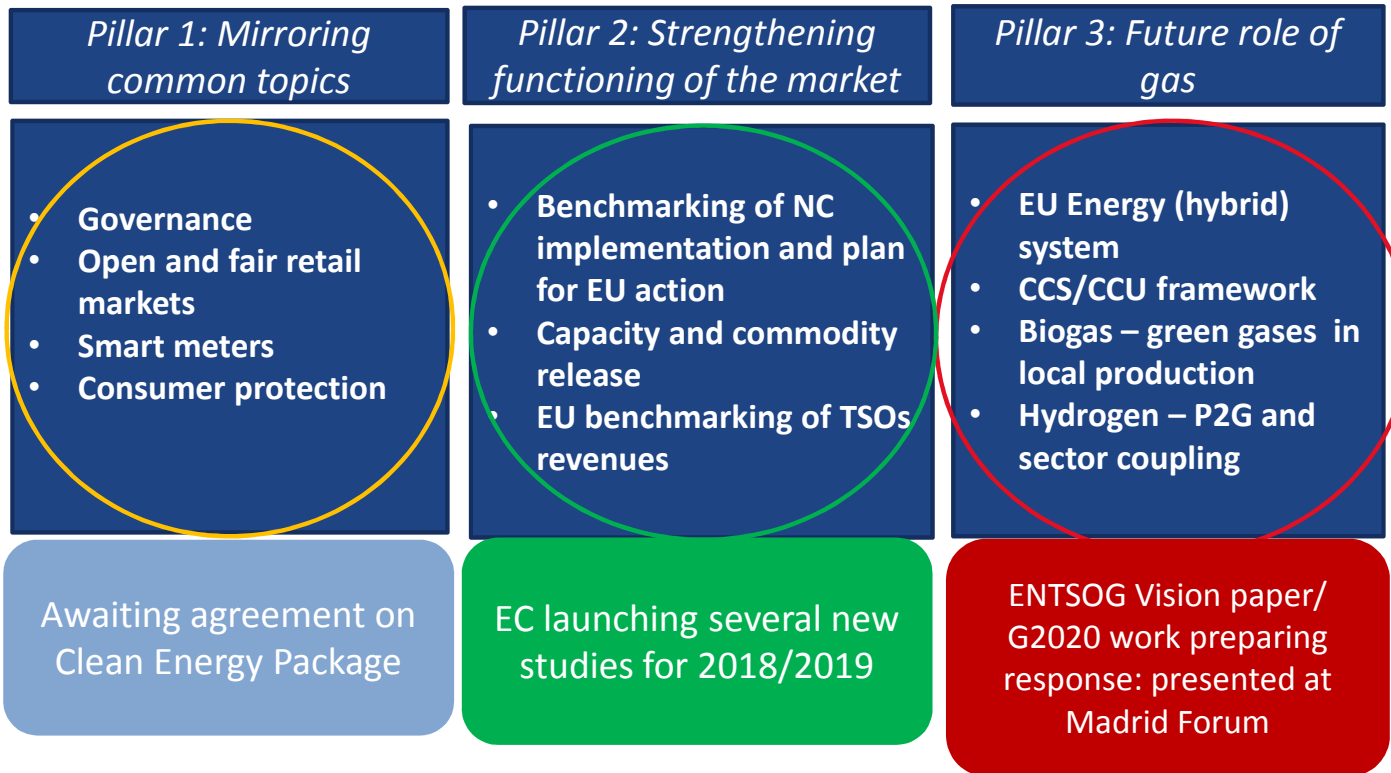
Green gasses



Transit volumes



G2020 Package Scope



NEW DANISH ENERGY POLICY

Offshore wind

Solar panels + Onshore wind

Biomethane

Gas Strategy

Electrification of heat

Renewable reserves

Taxes and subsidies

Research & Development



QUESTIONS



Contact: tbr@energinet.dk

We believe

in the power of collaboration.



Thibault Villedieu de Torcy

Market Development Manager

thibault.villedieu-de-torcy@prisma-capacity.eu

March 07, 2018

PRISMA 

Driving

the future of gas capacity marketing.

Combined Explicit and Implicit
Allocation of Capacity

Daily transport capacity not fully optimized

PRISMA analysis for the year 2017¹

Hub [Exit]	Hub [Entry]	Number of days for which the spread was higher than the DA tariff	% of such days for which the bundled DA capacity was fully booked	% of such days for which the bundled DA capacity was booked at a premium
GPN	NCG	151	38%	20%
CEGH	PSV	108	25%	22%
GPN	GPL	102	0%	0%
GPL	TTF	73	48%	21%
TRS	Espana	28	25%	14%
GPL	NCG	27	0%	0%
NCG	CEGH	25	32%	32%
GPL	ZTP	20	50%	50%
ZTP	TTF	20	34%	31%
TRS	PEG Nord	17	0%	0%
ZTP	PEG Nord	14	21%	21%
NCG	PEG Nord	13	0%	0%
ZTP	GPL	7	0%	0%
NCG	ZTP	6	0%	0%
TTF	NBP	6	0%	0%
ZTP	NCG	6	0%	0%
NCG	TTF	5	0%	0%
TTF	ZTP	5	0%	0%
PEG Nord	ZTP	3	0%	0%
CEGH	NCG	1	0%	0%
TTF	GPL	1	0%	0%

In situations where the spread is higher than the daily transportation tariff, the shippers tends to be more active on the day-ahead capacity market **but** not up to its full possibility

- PRISMA analysis:
 - available DA capacity is fully booked in **24%** of the cases only
 - auction premia are existant in **16%** of the cases only

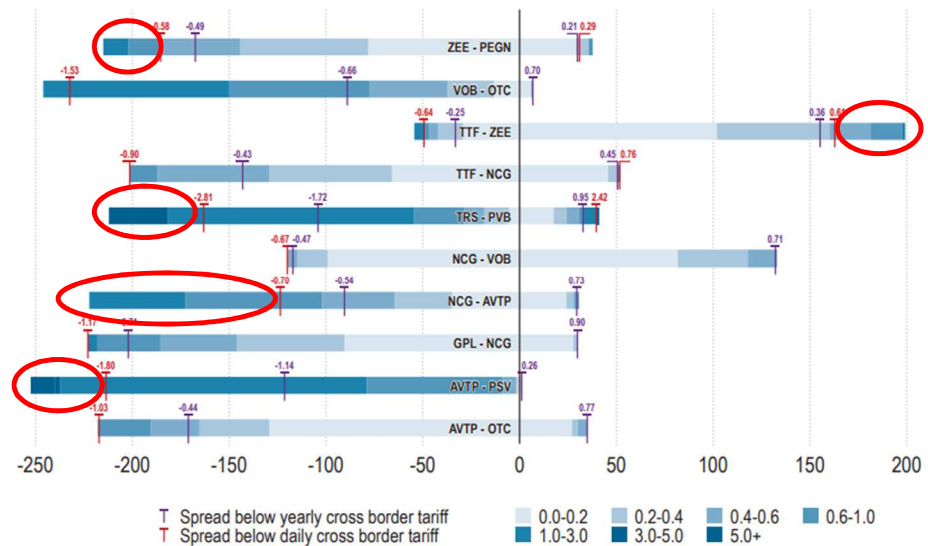
The reasons are multiple, but inter alia:

- Risk of taking uncombined positions in commodity and transport markets
- Traders are not all registered as shippers in both neighbouring countries

¹The spread information was calculated from publicly available market DA average prices and may thus not be fully correct

ACER Market Monitoring Report 2017 has similar outcomes

- Day-ahead price spreads between many hub pairs are regularly below daily transportation tariffs
 - Still in a number of occasions, day-ahead price spreads were above daily transportation tariffs
 - In most of such occasions, the market conditions should have lead to:
 - Day-ahead capacity fully booked
 - booking premia up to leveling the spreads to the total transport costs
- What is actually observed during such days?



Functioning of short-term gas markets can be further improved

Occasional high spreads

- Still some spreads occasionally higher than DA transport reg. tariffs (e.g. in cases of cold winter spells like Feb/Mar 2018)
- More structural higher spreads observed between a few hubs
- Transport capacity is in most of such cases not fully booked and/or without surcharge

Market organization

- Risk for taking independent positions in both the commodity and the capacity markets at different points in time
- Not all the market participants in the commodity markets are also shippers in neighbouring countries

Need for flexibility

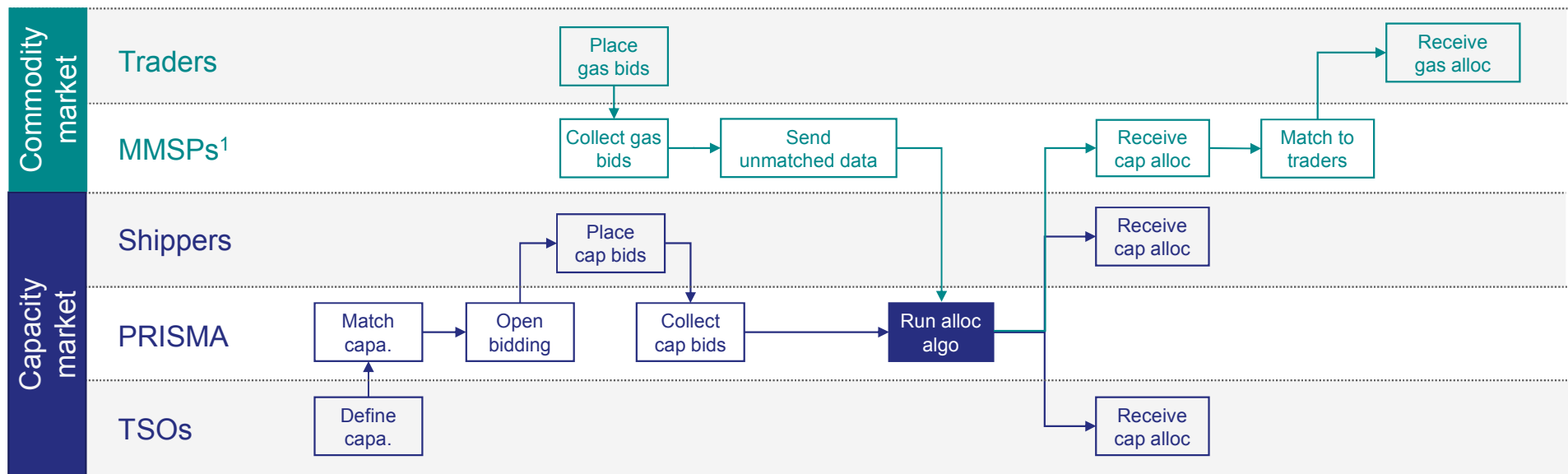
- Increasing share of non-controllable renewable electricity generation
- Combined with volatility in consumption and the role of gas as a balancing source is likely to increase pressure for further improving short-term capacity allocation processes

Changing contractual environment

- Many long term contracts running out between 2020 and 2030 with potential consequences on gas prices depending on the specific situation
- Short term capacity allocation processes may play a bigger role

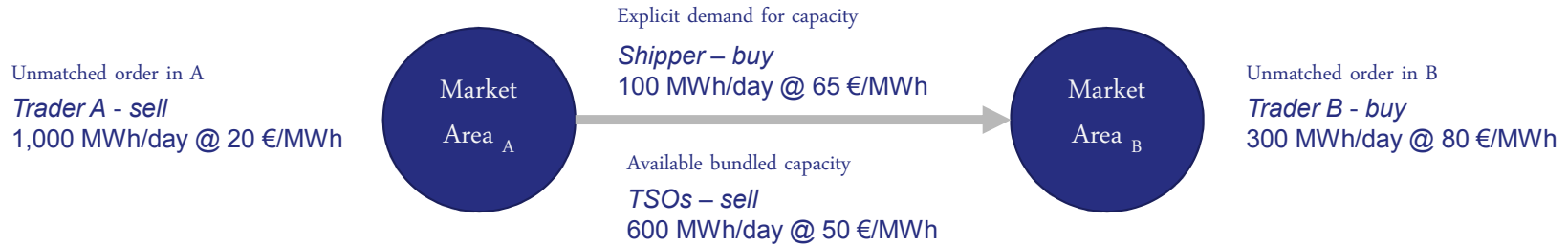
PRISMA's proposal: Combining the explicit and the implicit allocation of capacity

Proposal: Add the input from the commodity markets to the current capacity allocation process on PRISMA and combine the allocation of both the explicit and the implicit demands for capacity into one global algorithm, thereby ensuring that the capacity is allocated to the market (explicit or implicit) that is valuing it the most

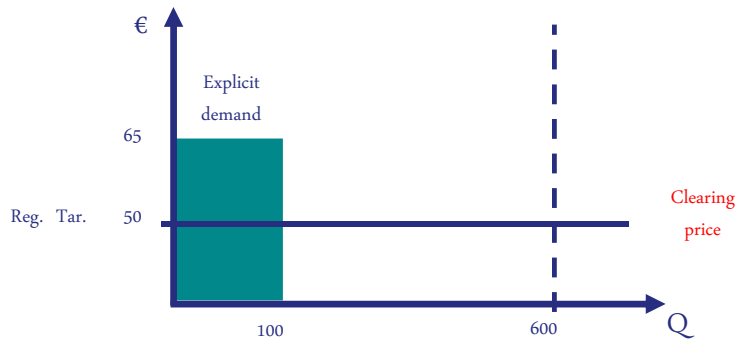


1- Match Making Service Providers, i.e. Gas Exchanges, Broker Houses

One numerical example

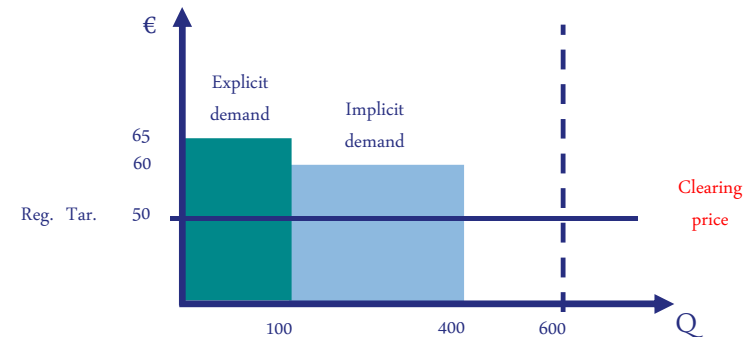


Current capacity market organization



Shipper buys: 100 MWh/d @ 50 €/MWh/d
 TSOs: 100 MWh/d @ 50 €/MWh/d
 Trader A sells: 0 MWh @ 20 €/MWh
 Trader B buys: 0 MWh @ 80 €/MWh

With Combined Explicit and Implicit Allocation



Shipper buys: 100 MWh/d @ 50 €/MWh/d
 TSOs: 400 MWh/d @ 50 €/MWh/d
 Trader A sells: 300 MWh @ 20 €/MWh
 Trader B buys: 300 MWh @ 70 €/MWh

We care

about our customers.

How do we get better?

From helpdesk to customer success

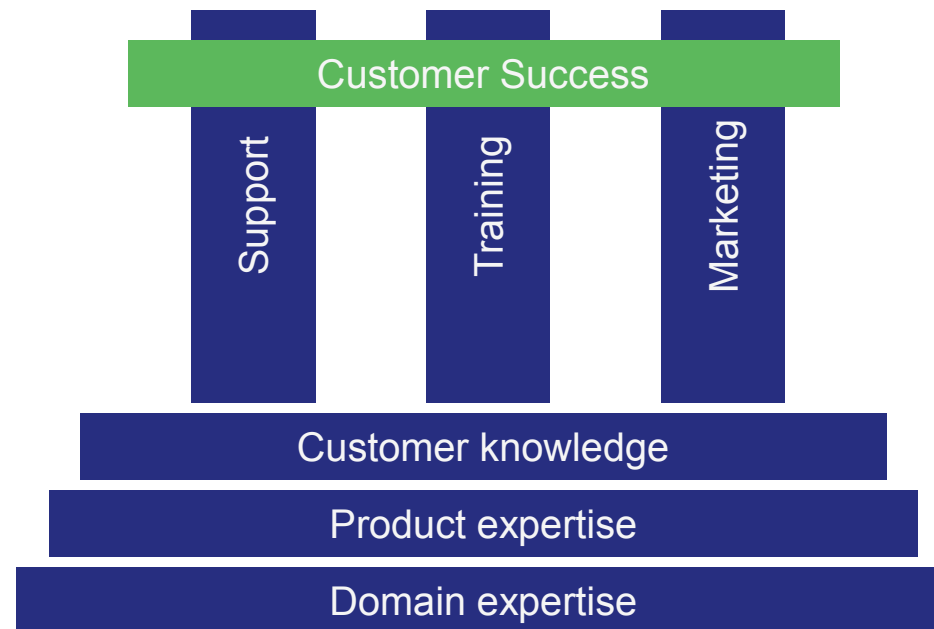


Support

During 2018 we have insourced our Support team, resulting in

- faster response times,
- increased customer satisfaction and
- more transparency for you.

From helpdesk to customer success



We are here for you – PRISMA Customer Success team



Simona Lamba



René Lindner



Frederick Webner

Your concerns are our concerns



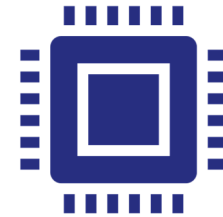
In 2018 you took part in a brief survey and reported to us, that our user interface is too slow for you.

Be faster, use the PRISMA API

What to do about it?

Connect your IT systems directly.
We have built an API for you.

Your IT system



PRISMA

- ✓ Get your concluded bookings
- ✓ Analyse past, upcoming and live auctions
- ✓ Place bids in auctions

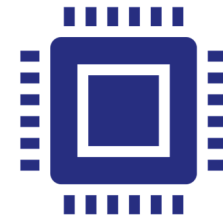
Available in APRIL '19

Be faster, use the PRISMA API

What to do about it?

Connect your IT systems directly.
We have built an API for you.

Your IT system



PRISMA

- ✓ Get your concluded bookings
- ✓ Analyse past, upcoming and live auctions
- ✓ Place bids in auctions

Thank you

PRISMA Customer Success
contact
+49 341 69 92 990 - 69
helpdesk@prisma-capacity.eu

www.prisma-capacity.eu

PRISMA 

—
**GAS
STORAGE
DENMARK**
—

SALE STATUS SY19-22

SHIPPERS FORUM, 7 MARCH 2019



SALE



2/05-2018	Auction: SY19, SY20, SY21, Option to purchase storage capacity under Tyra
24/05-2018	Invitation to bilateral booking of rest capacity after auction SY19, SY20, SY21
20/11-2018	Auction - SY19, Option to purchase storage capacity incl. price guarantee
22/11-2018	Auction - SY19, Second option to purchase storage capacity incl. price guarantee
4/12-2018	Capacity available for online booking SY19, FCFS
15/01-2019	Auction - SY19, Sealed bid with Market Clearing Price incl. price guarantee



SALE STATUS

SY2019

SOLD

Long Term capacity until SY21 incl.	2,799 GWh
SY19 Capacity	4,883 GWh

RESERVED

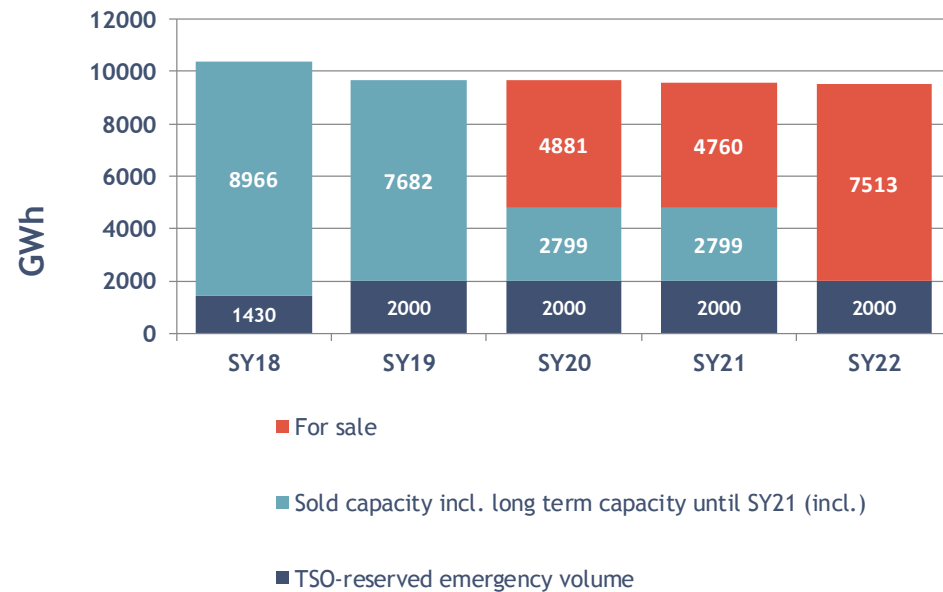
2,000 GWh for TSO Emergency until 2022	2,000 GWh
--	-----------

AVAILABLE FOR SALE

SY2019	0 GWh
SY2020	4,881 GWh
SY2021	4,760 GWh
SY2022	7,513 GWh



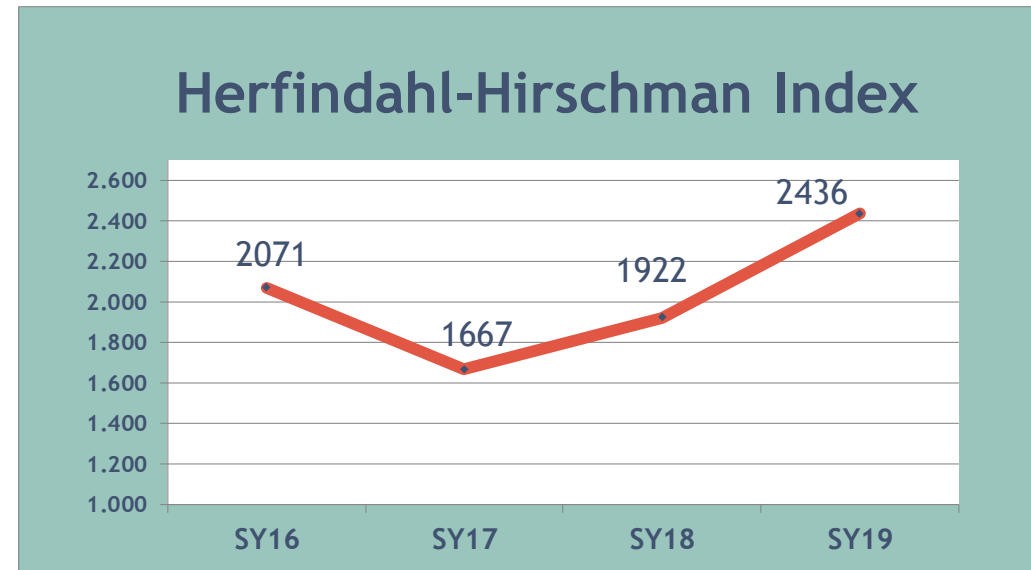
Storage capacity SY18 - SY22



EXTRA INJECTION AND WITHDRAWAL is available for sale in SY19 ► [CONTACT US](#)

THE SALE EXPERIENCE IN RETROSPECT

- All capacity has been offered on auctions
- The capacity sale ended with a surprising final sprint
- Many storage customers were not able to secure storage for the next season:
 - the auctions have resulted in significantly lower product customization
 - quick sale out



HHI suggests a highly concentrated marketplace for storage capacity

CAPACITY OUTLOOK



- Historically high storage filling before start of next season (more Danish gas in store)
- This will leading to higher calorific value than assumed in capacity calculation may lead to more Energy capacity in storage.

GSD will make a re-evaluation of capacity for SY 19 in April.

CALL FOR INTEREST - INVITATION



If anyone is interested in storage capacity for SY19, please contact us with your preferences regarding

1) product, 2) volume and 3) sales form (auction or bilateral).

Then we shall consider how to allocate the extra capacity.

The deadline for CALL FOR INTEREST is 20 MARCH 2019

INITIAL CONSIDERATIONS

- Bilateral allocation in order to meet additional requests for customization
- Medium flex 120/60 product is preferred
- Multiple year storage capacity is preferred

SALES PLAN

20 MAR
2019

- Deadline CALL FOR INTEREST

1 APR
2019

- Announcement of decision for allocation form based on calls for interest

15 APR
2019

- Announcement of volume for sale
- Allocation process starts

1 MAY
2019

- SY19 starts

Medio May
2019

- Options for SY 20

QUESTIONS?

Contact: hni@gasstorage.dk



BREAK



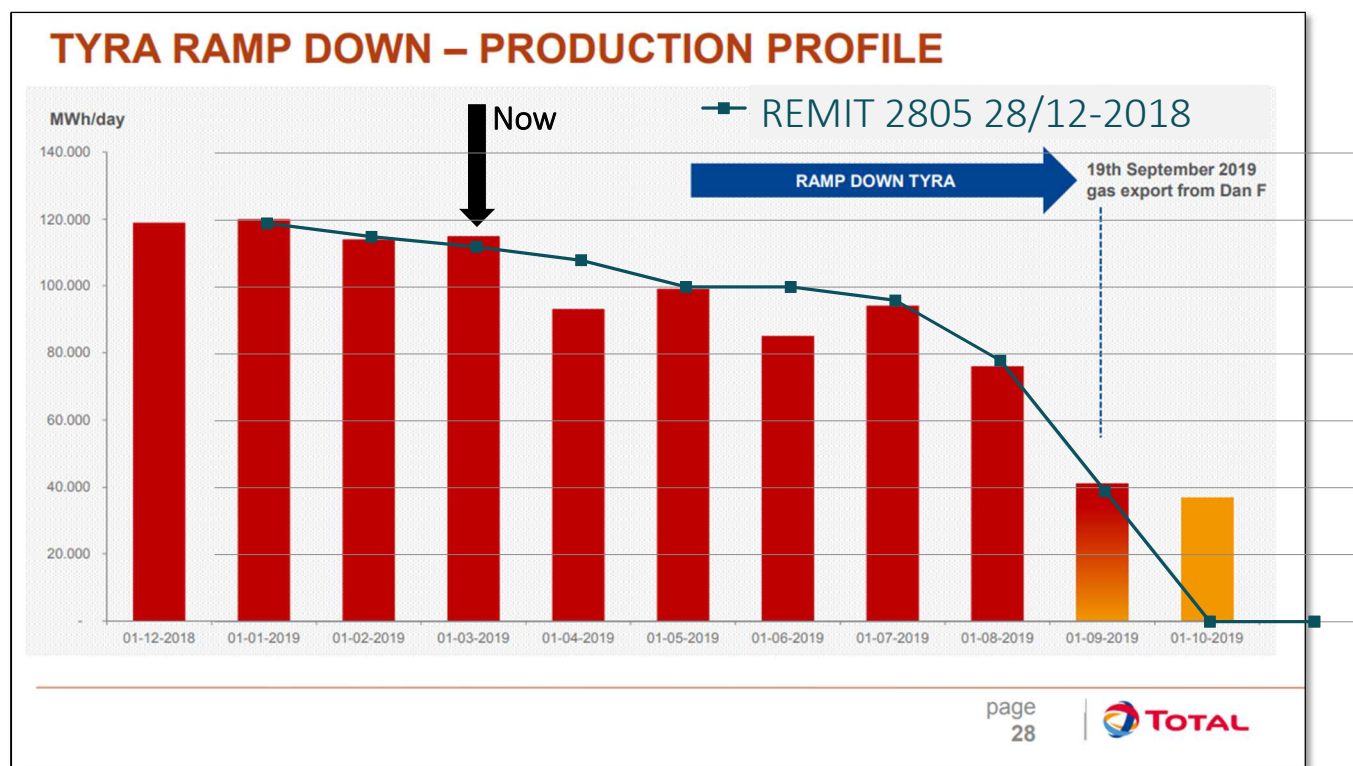


TYRA REDEVELOPMENT

Christian Meniche Andersen & Lasse Trøjborg Krogh,
Energinet Gas TSO

TYRA RAMP-DOWN IN COMING MONTHS

The long-awaited shut-down is approaching fast



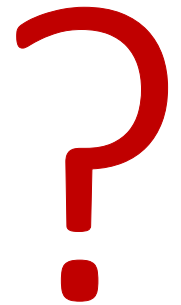
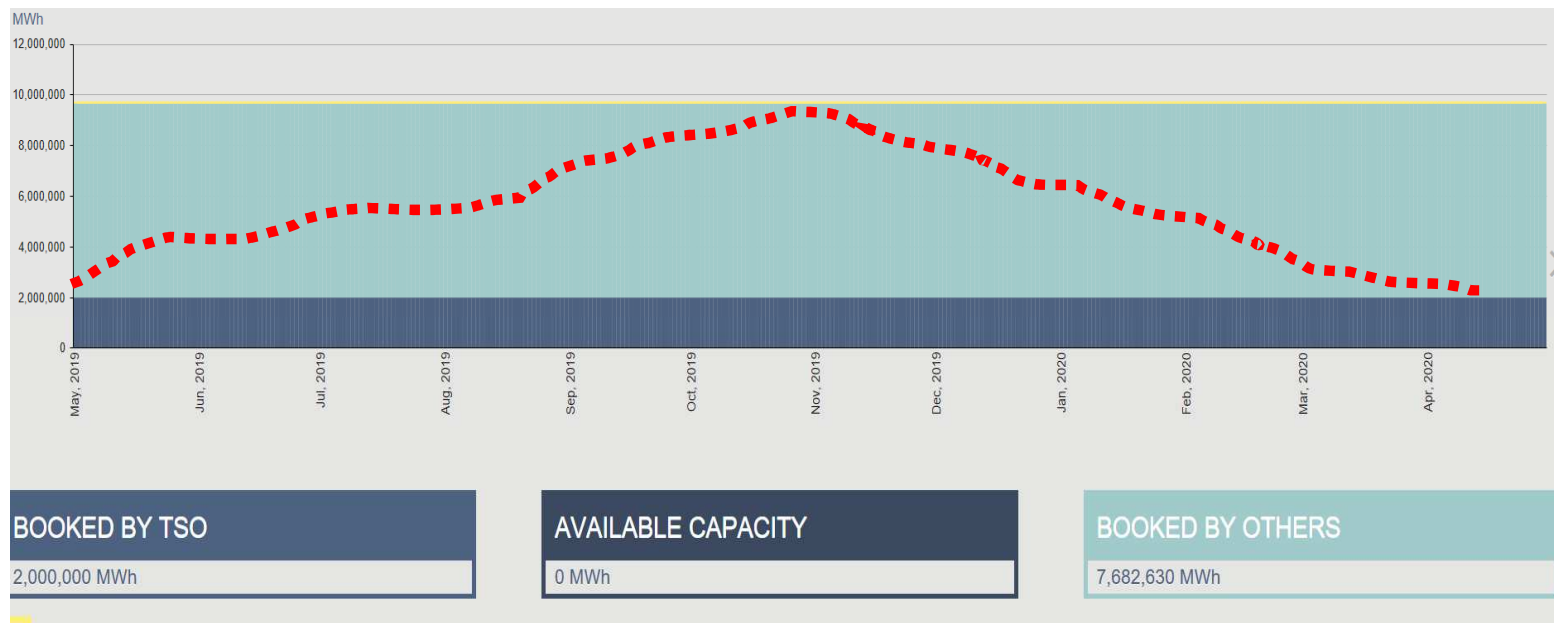
From Total's presentation at Shipper Forum 13 December 2018.



SAFE STORAGE LEVEL

Christian Meiniche Andersen, Energinet Gas TSO

STORAGE CAPACITY BOOKED 19/20



SAFE STORAGE LEVEL (SSL) ON A SPECIFIC DAY

- Can the stored gas fill the gap between consumption and import capacity rest of the storage year?
- Which filling level gives us 95% chance of avoiding a gas shortage in the winter/spring?

A person is captured in mid-air, jumping over a gap between two large, dark rock formations. The person's arms are outstretched, and their legs are spread wide, suggesting a leap of faith or a challenge. The background is a clear, light sky, possibly at dawn or dusk, with a soft glow on the horizon. The overall scene conveys a sense of risk, challenge, and the need for a 'safe level' to cross the gap.

What is a safe
storage level?

SAFE STORAGE LEVEL (SSL) ASSUMPTIONS

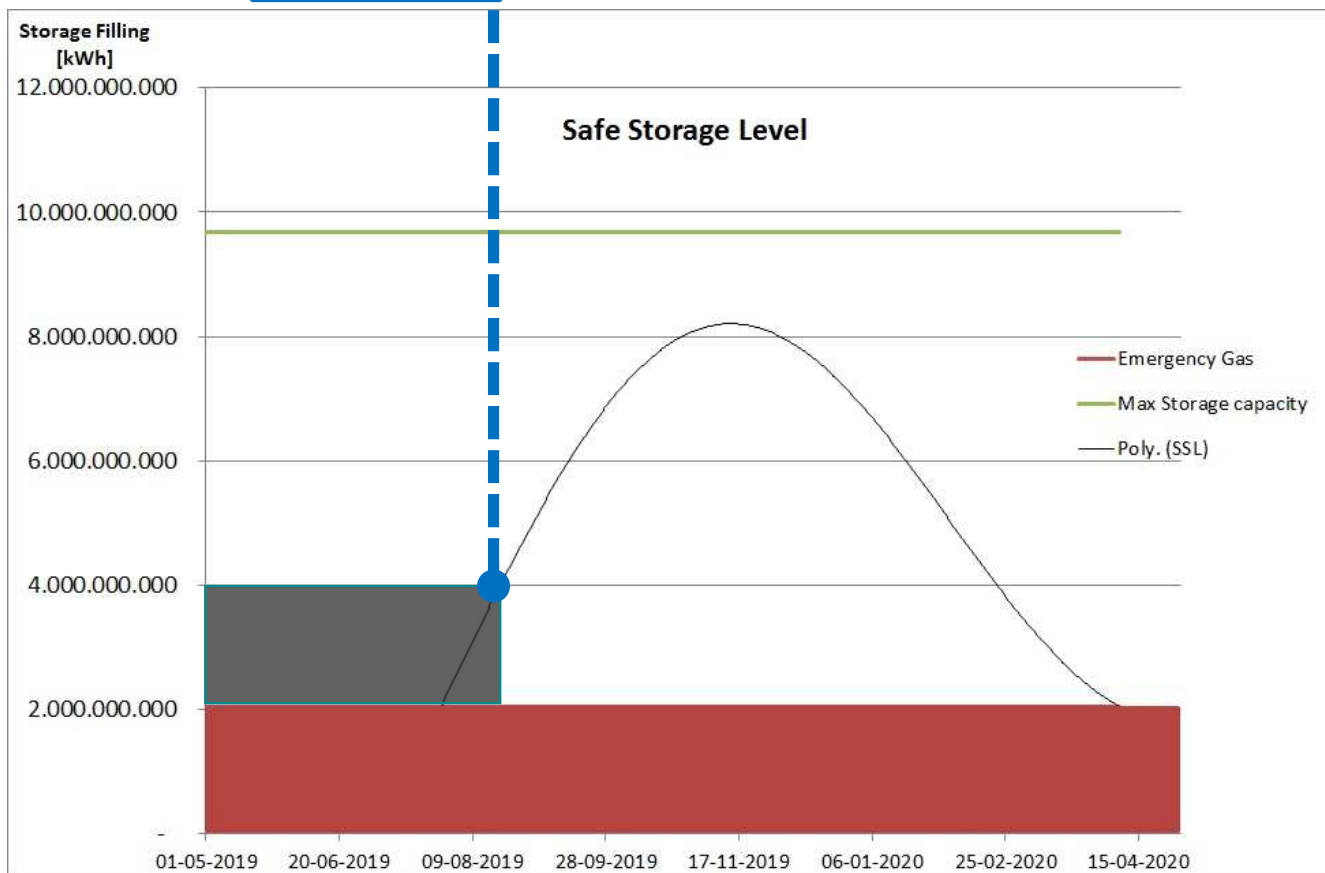
- Entry capacity (Ellund) is fully used rest of the storage year
- Biogas production increases as forecasted
- South Arne production at present level
- Temperature in DK will follow the same statistical behavior as the past 30 years
- Consumption cold year DK+S based on 2018
- No technical incidents affecting the entry capacity





SAFE STORAGE LEVEL ON A SPECIFIC DAY

[More about the SSL and the supply situation on our website](#)



QUESTIONS



Contact: can@energinet.dk



SEASONAL TARIFFS

Lasse Trøjborg Krogh, Energinet Gas TSO

WHY NOW?

Because of the Tyra redevelopment period

Entry capacity to Danish gas market becomes a scarce resource

Gas Year 2019/20 – 2021/22

WHERE?

Only on interconnection points

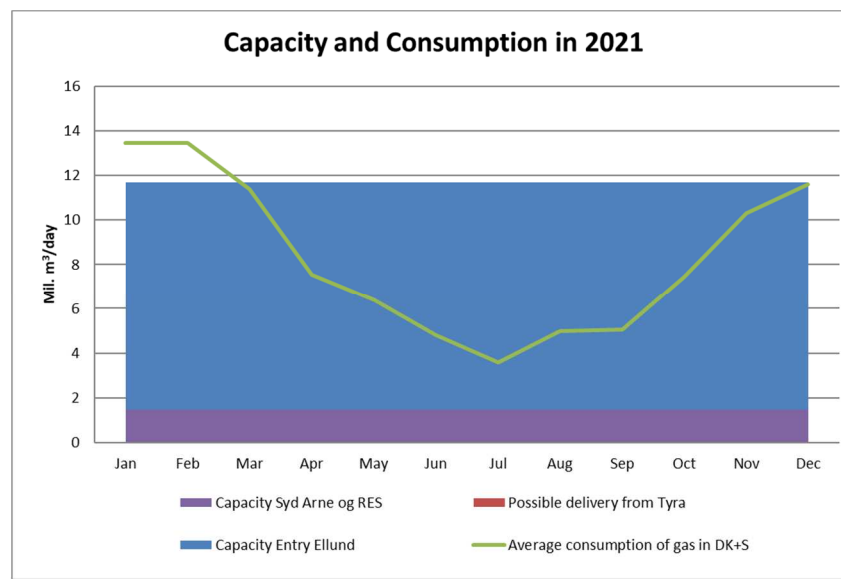
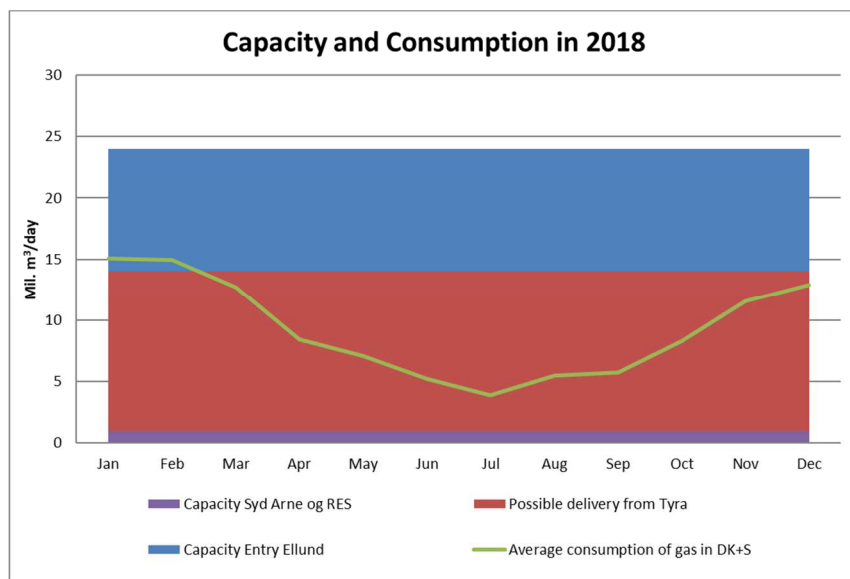
Entry and Exit Ellund

PURPOSE?

More efficient usage of the gas infrastructure

Increased incentive to buy yearly capacity products

ENTRY CAPACITY TO THE DANISH MARKET



MARKET CONSULTATION



LEGAL ASSESSMENT

- Proposal is not fully in compliance with TAR NC
- We will reconsider the proposal in dialogue with DUR
- We will update you as soon as possible (in March)

QUESTIONS



Contact: ltk@energinet.dk



STRONGER BALANCING SIGNAL

Julie Frost Szpilman, Energinet Gas TSO

ENERGINET SHALL BE THE LAST RESORT TO BALANCE YOUR PORTFOLIO

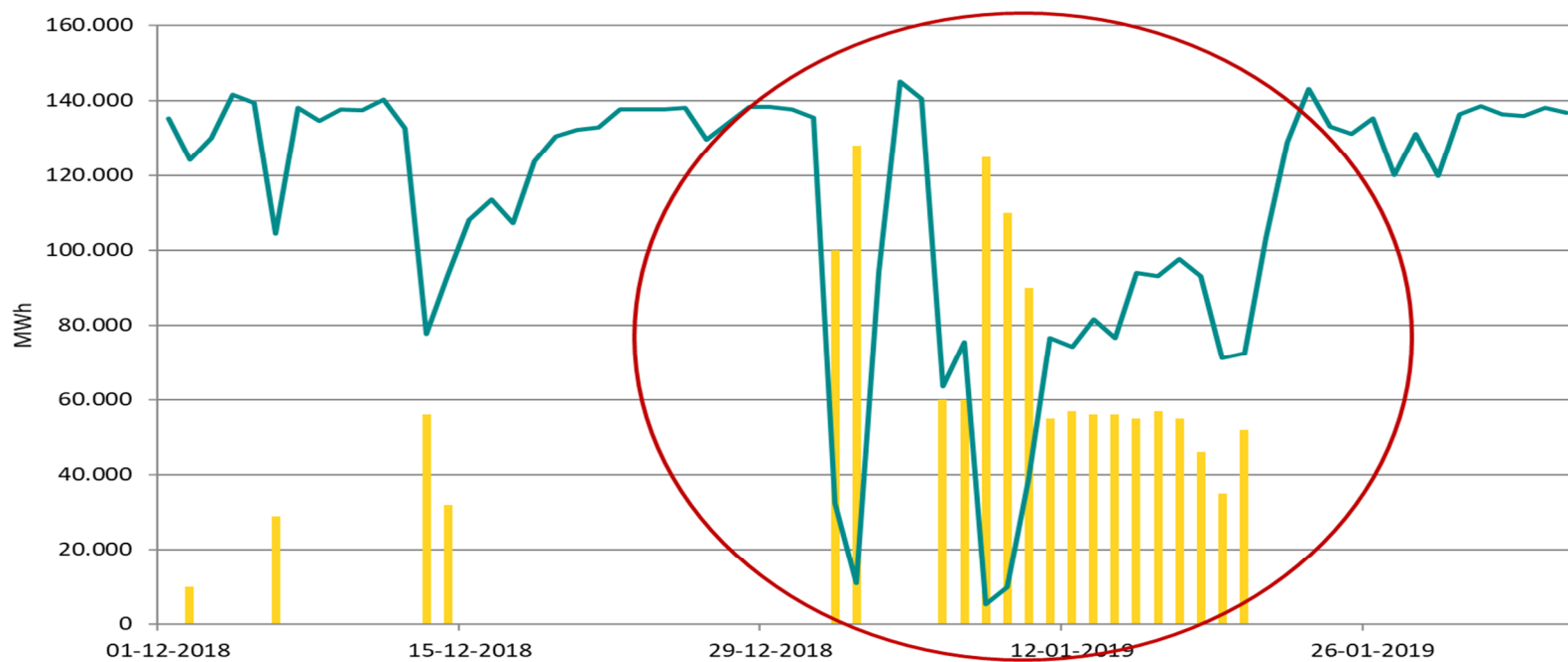
Other flexibility provider should be used
instead:

- Ellund
- Storage
- Within-day trading



EXAMPLE: START JANUARY 2019

Large reductions of production from the North Sea put heavy pressure on the Danish gas system

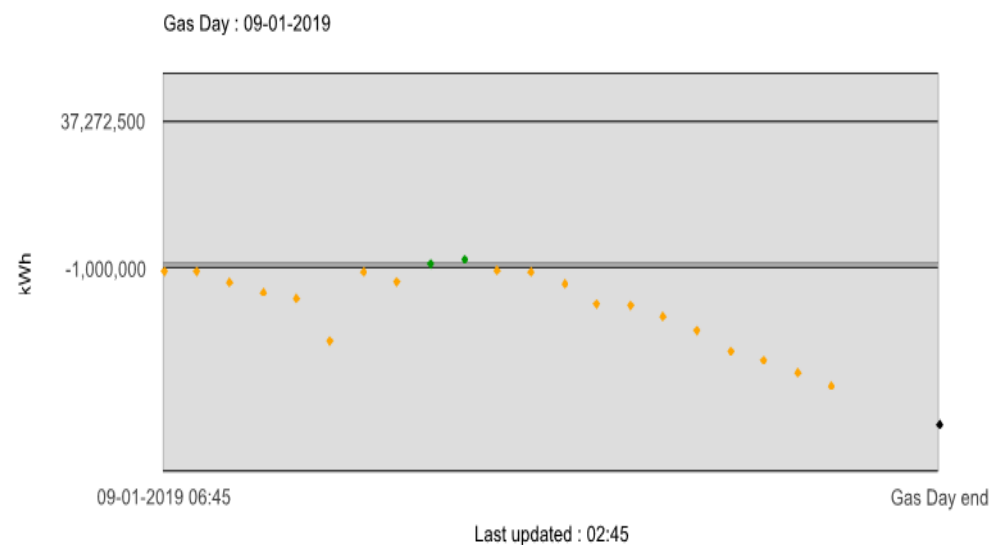
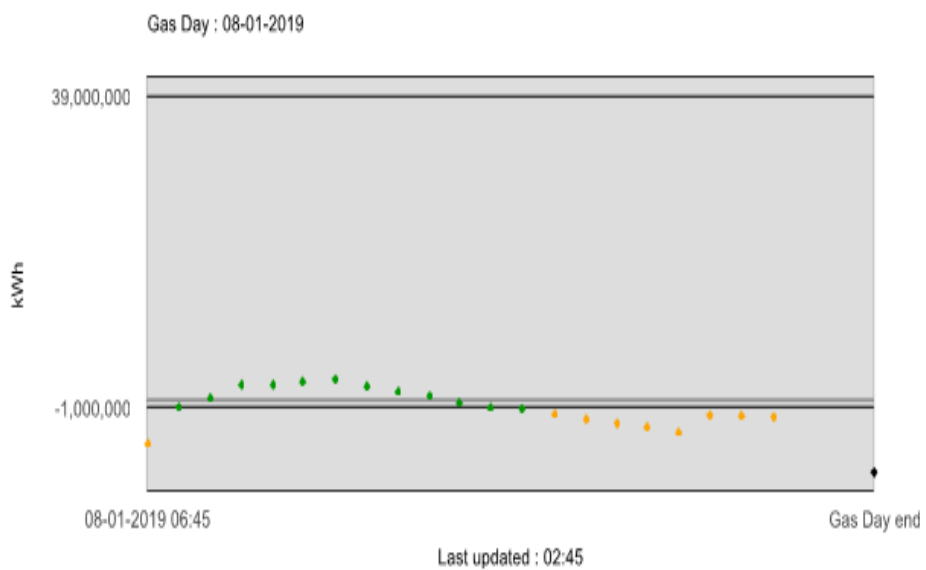


Source: Energinet Online

Volume behind the REMIT messages

Flow from the North Sea

DAYS WHERE SHIPPERS HAD DIFFICULTY STAYING IN BALANCE

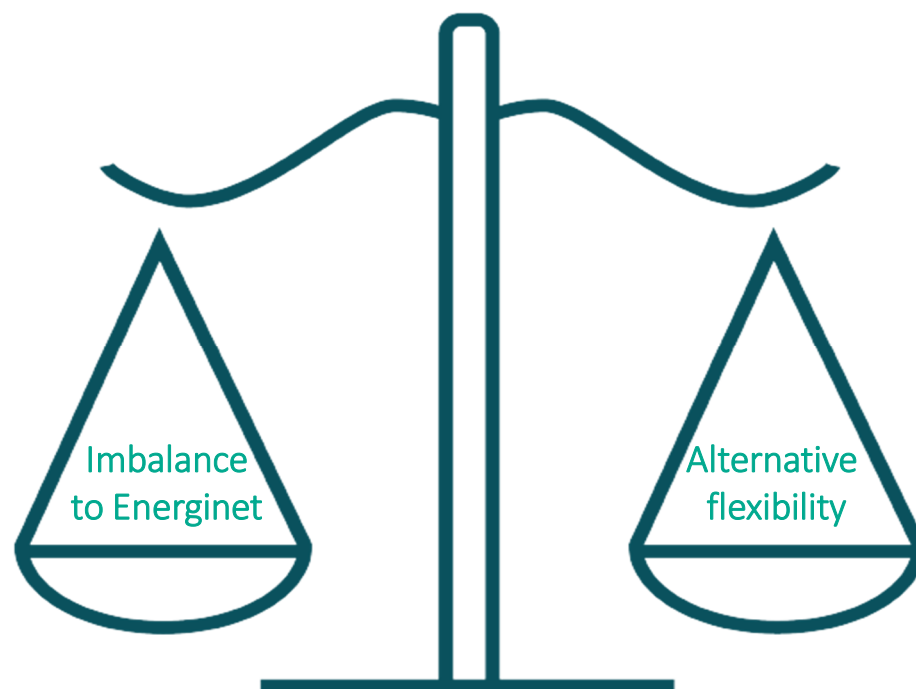


BALANCING PRICES WERE MOST ATTRACTIVE

Other ways to provide flexibility were more costly

EUR/MWH	8 January 2019	9 January 2019
Marginal Price	22.375	23.400
Within Day (ETF)	22.079	22.577
Interruptible Withdrawal	+ 1.000	+ 1.000
Transport Germany => Denmark	+ 1.000	+ 1.000

WHAT TO DO?



ENERGINET SHALL BE THE LAST RESORT TO BALANCE YOUR PORTFOLIO....

.....Therefore we are considering to trade more volumes in the yellow zone trade to reflect the psysical need for gas

This will create a stronger price signal which should incentivise you to bring yourself in balance



QUESTIONS



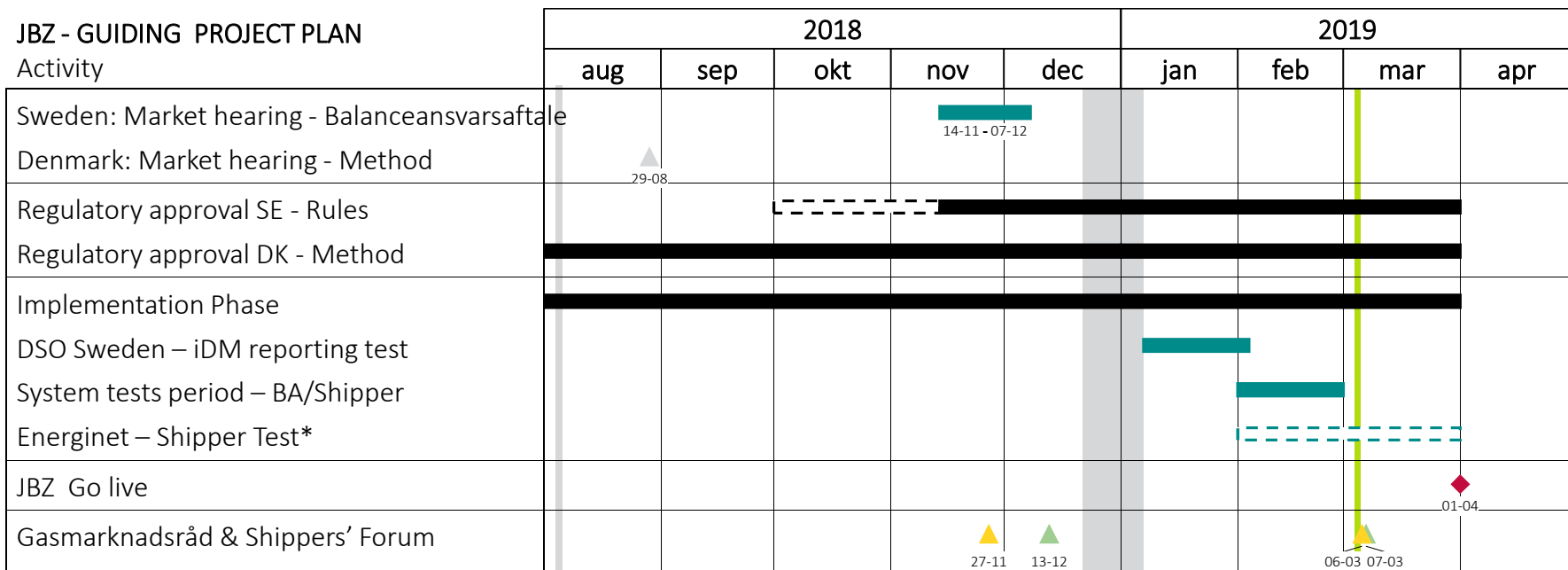
Contact: jfs@energinet.dk



JOINT BALANCING ZONE

Signe Louise Rasmussen, Energinet Gas TSO

PROJECT PLAN



■ Holiday period *Energinet Shippers are always welcome to test the existing functions

GO-LIVE 1 APRIL 2019

PRATICAL PREPARATIONS

- Implementation to Rules for Gas Transport
- Pending regulatory approval
- Data communication
- Capacity contracts/purchase at Dragør
- Nomination at Dragør



CONSULTATION ON RULES FOR GAS TRANSPORT

NEW version 18.1 with planned effect 1 April 2019

- Public consultation 25 February 2019 to 4 March 2019
- Changes related to implementation of JBZ
 - A new Appendix 8 – Data Privacy (GDPR)
 - Permanent removal of price caps
 - New price methodology for negative imbalances in crisis level Emergency
 - Various minor changes
- Comments received from one shipper
- Thank you for comments!

Rules for Gas Transport
Version 18.1

1 April 2019

REGULATION

JBZ needs regulatory approval from Ei in Sweden and DUR in Denmark

- ✓ We expect to receive an approval from both regulators.
- ✓ DUR has published a positive decision in draft version now for public consultation.
- ✓ However, we do not expect a final decision from Ei or DUR until the end of march.



DATA COMMUNICATION

Preparation for receiving data from the BAM

- Be able to receive data from the BAM in relation to Swedish points
- Change of AS2 to AS4



Contact for testing

backoffice@energinet.dk

CAPACITY CONTRACTS AT DRAGØR, EXIT ZONE & JEZ*

PRISMA

- No **monthly** auction running for April
- Last **daily** auction 30 March 2019
- Last **WD auction** 1 April 2019 (GD 31 March 2019)

Energinet Online

- **Before 1 April** purchase of long term Exit Zone capacity (covering JEZ)
- **From 1 April** capacity point Exit Zone will change name to Joint Exit Zone

Conversion of contracts

- Long term Dragør contracts converted to JEZ
- Existing Long term Exit Zone contracts will not be renamed (Cover JEZ)

*Joint Exit Zone

NOMINATIONS AT DRAGØR

When to send your last nomination at Dragør

Gas Day 31 March 2019

Latest nomination send
by shipper at 03:00 on
1 April 2019



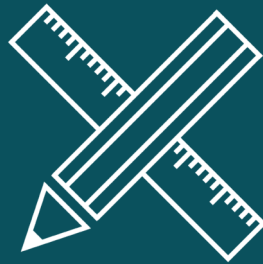
Gas Day 1 April 2019



QUESTIONS



Contact: slr@energinet.dk or jbz@swedegas.se



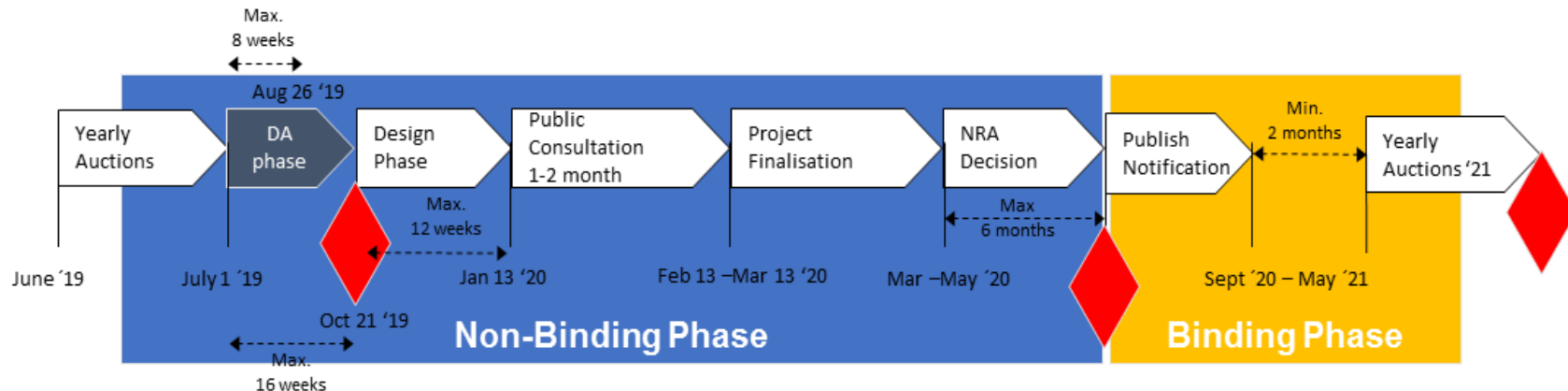
INCREMENTAL CAPACITY PROCESS

Christian Rutherford, Energinet Gas TSO

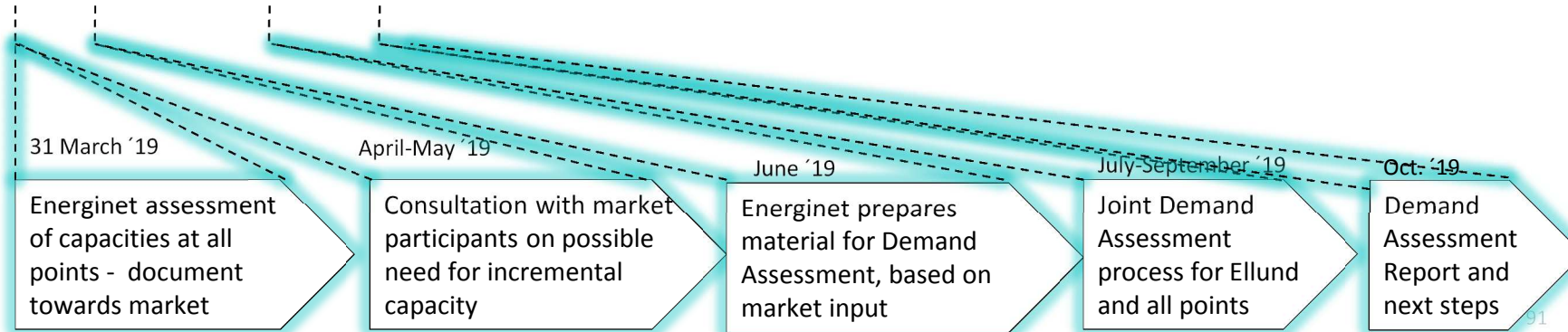
INCREMENTAL CAPACITY PROCESS - TIMELINE

European and Danish approach

European incremental process at interconnection points (Ellund) – Together with GUD and OGE



Danish incremental process (all capacity points)



INCREMENTAL CAPACITY PROSESS

Key messages

- Energinet prepares material on capacities in the system in due time for market participants to assess and comment
- Based on capacity material, Energinet invites market participants to comment on material, and to express non-binding needs for future capacity in the system
- Energinet will run the internal Danish incremental process in parallel with the official process at IP Ellund

It is important for Energinet to collect knowledge on potential future needs for incremental capacity in the system in due time, to support the market needs

QUESTIONS



Contact: cru@energinet.dk



BALTIC PIPE NORTH SEA ENTRY

Michael Brock, Energinet Gas TSO

FROM 2022, YOU CAN TRANSPORT GAS FROM NORWAY

"Entry Europe 2" will be a new entry point to Danish gas system

- All shippers will be able to book the new entry capacity = import Norwegian gas to Denmark
 - Not necessary to have been part of Baltic Pipe open season, etc.
 - Large number of potential sellers active in Norwegian Gassled system
- Title transfer can be done inside Gassled ("Area D"), or after Exit from Gassled
 - Exit Area D capacity can be swapped daily between exit points, subject to physical constraints
 - Opportunities for you from access to Norwegian gas: Trading, flexibility, long-term sourcing?



EXPECTED FIRST GAS FROM NORWAY: JAN. 2022

Baltic Pipe project has accelerated the time schedule for upstream part

- Expected "first gas" target date: Currently January 2022
- New opportunity to source gas during the expected last winter of Tyra shutdown
 - Timing uncertainty, as for any large infrastructure project
 - Updates, if any, will be communicated to the market
 - Overall Baltic Pipe project (still) scheduled for 1 October 2022
- Entry EP2 capacity from first gas target date is expected to be offered to the market in July 2021 on PRISMA
 - Both long-term and short-term capacities
 - Energinet will be pragmatic concerning possible interruptible product, to start flow as soon as physically ready



BALTIC PIPE CONNECTION MAY STRENGTHEN SECURITY OF SUPPLY DURING TYRA PLATFORM REDEVELOPMENT

PUBLISHED 9.1.2019 15:43

The Baltic Pipe project, intended to connect Denmark and Poland to the Norwegian gas fields, will be able to connect Denmark and Norway as early as January 2022. The Danish market can thus access Norwegian gas during a period of challenged security of supply because no gas is supplied from Tyra.

During the redevelopment of the Tyra platform in the North Sea between September 2019 and July 2022, the Danish gas system will be more vulnerable than usual, even though analyses show that the supply to Danish and Swedish customers can be maintained using primarily gas imported from Germany.

Since 1987, the Tyra field facilities have been the main source of supply for Danish and Swedish gas consumers, and the redevelopment therefore challenges the security of supply.

However, an updated time schedule for the Baltic Pipe project now shows that gas from Norway will be able to flow to Denmark earlier than expected, and Norwegian gas can thus alleviate the pressure on the Danish security of supply during part of the period of the Tyra redevelopment.

– The possibility of transporting Norwegian gas to Denmark during the shutdown of the Tyra field is excellent news for the security of supply for the Danish gas market. Even though we can maintain the security of supply using our gas storage facilities and gas from Germany, the connection to Norway will make the Danish gas system less vulnerable to disruptions, says Torben Brabo, CEO, Energinet Gas TSO.

The overall Baltic Pipe project, destined to connect Norway, Denmark and Poland, is scheduled for commissioning on 1 October 2022, but work is already following an official time schedule according to which gas can be transported from Norway to Denmark as early as January 2022.

– The purpose of Baltic Pipe is first and foremost to strengthen and integrate the European gas market and contribute to achieving the European climate targets, but this is a welcome bonus, says Torben Brabo, CEO, Energinet Gas TSO.

Even though the time schedule is now in place, there is still a natural uncertainty regarding the start date for the connection to Norway, because – as always in the event of large projects – it may be affected by unforeseen events.

As the possibility of transporting Norwegian gas to Denmark earlier than expected may affect prices in the market, Energinet has informed the market through a REMIT message.

Press Release 9 January 2019

BEHIND THE SCENES – INTENTION IS TO CREATE ONE ENTRY POINT

Energinet intends to make things as easy as possible for you

- Two different sets of regulation
 - Upstream – negotiated access
 - Transmission – regulated access
- Method application to create combined product
 - Update of Rules for Gas Transport
 - User Group later this year
 - Financial separation of upstream and transmission accounts
- The product facing the shipper should be as simple as possible

Us:



You:



RECAP

Can your business benefit from the new import opportunity?

- For *all* shippers
- Norwegian Gassled system is “open for business”
- First gas target date = expected January 2022
- We will make life as easy as possible for you!



QUESTIONS



Contact: mbk@energinet.dk



FINAL REMARKS

Clement Johan Ulrichsen, Energinet Gas TSO