25/05/2022

An Introduction to the EECS Market

Vienna

William Dixon

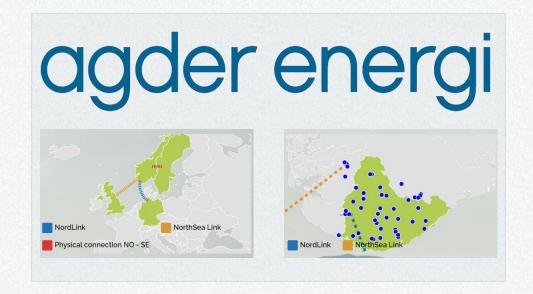
Head of Product Development, Environmental Markets

Agenda

1) Terms of Reference

- 2) EECS Market Overview
- 3) Market Prices
- 4) Auctions
- 5) Case Studies: Norway / Germany / Czech Republic
- 6) The Future
- 7) Further Reading / Contact

- Agder Energi Vannkraft AS
- Located around Europe
- Production and PPA portfolios
- Active within global energy certificate markets



- Production Issuance
- Transaction Issuance

- Production Issuance
- Transaction Issuance

• Variable:

the delay between production and GO issuance

- agder energi
 - Production Issuance
 - Transaction Issuance

- Production Cancellation
- Transaction Cancellation

the cancelled GO's production period the time at which the GO was cancelled

- Production Issuance
 - Transaction Issuance

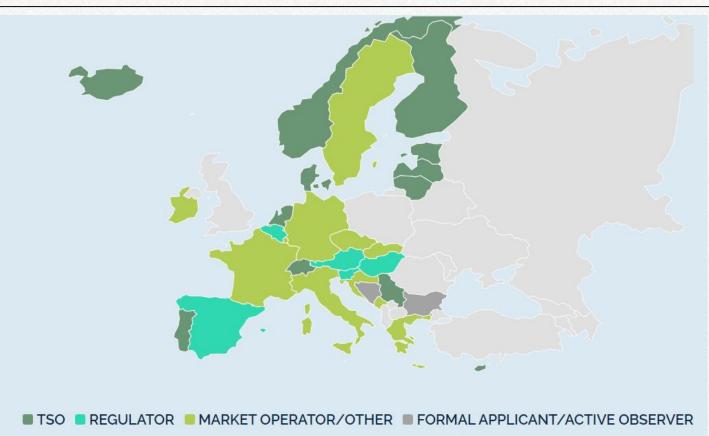
- Production Cancellation
- Transaction Cancellation

the cancelled GO's production period the time at which the GO was cancelled

- "Cancellation" of a GO (Redemption / Redeem / Retire / Consume)
- "GO" / GOO / GOO / EECS REC / EECS Guarantee of Origin
- "Earmark" / Support / Unsupported / Incentive Mechanism / Subsidy

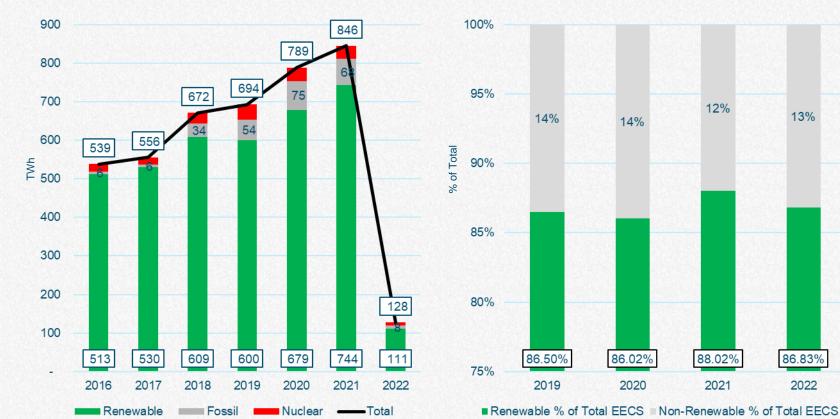
2a) Market Overview

EECS Market Area



2b) Market Overview

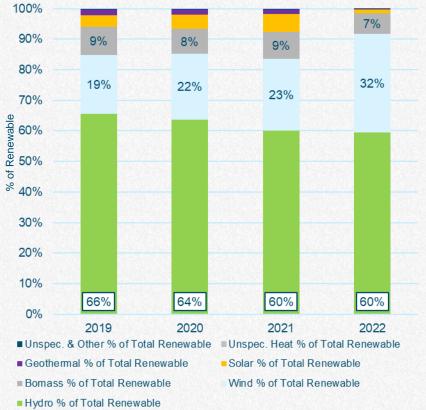
Total EECS Production Issuance



2c) Market Overview

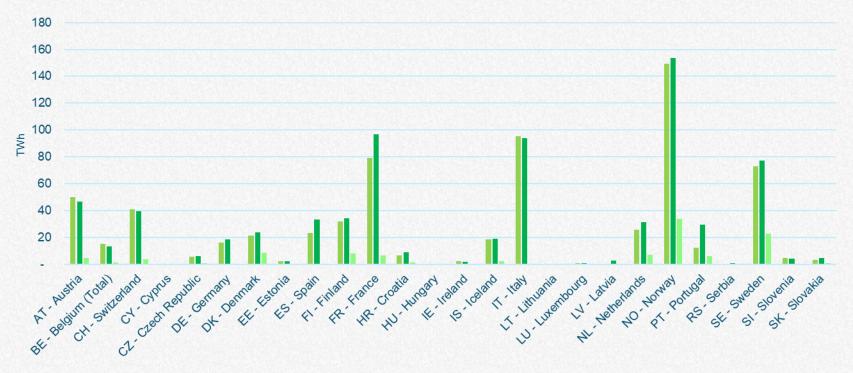
Total EECS Renewable Production Issuance





2b) Market Overview

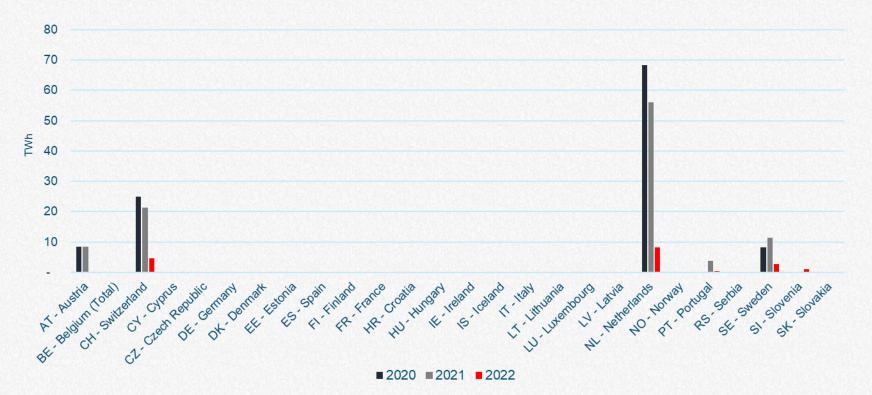
Total EECS Renewable Production Issuance



2020 2021 2022

2b) Market Overview

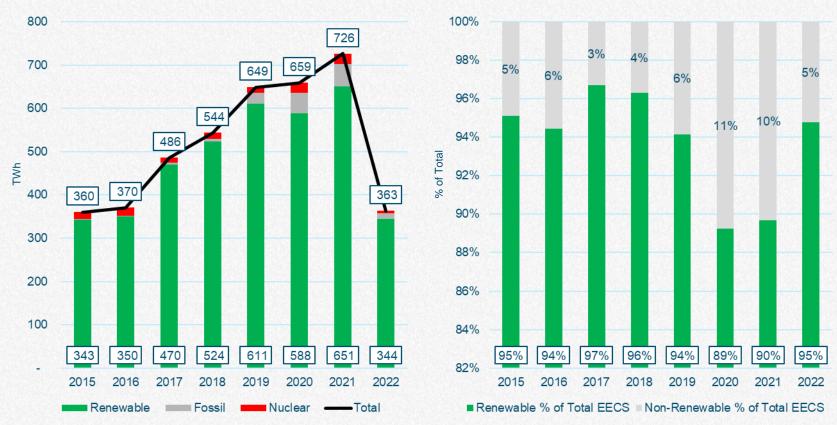




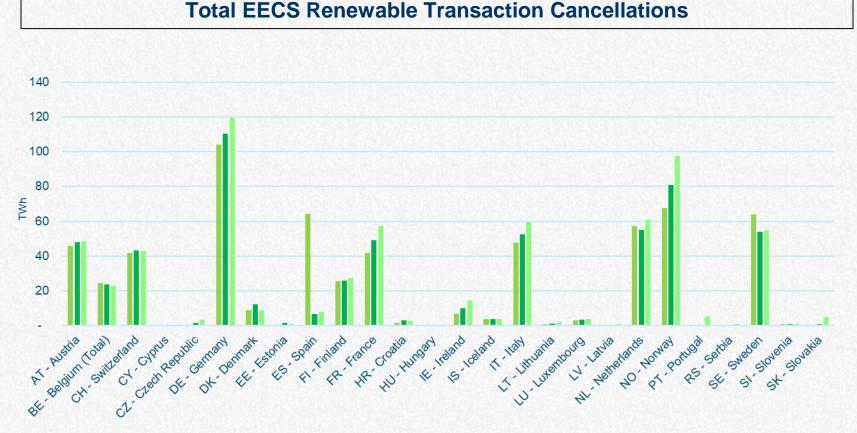
agder energi

2d) Market Overview

Total EECS Transaction Cancellations



2b) Market Overview

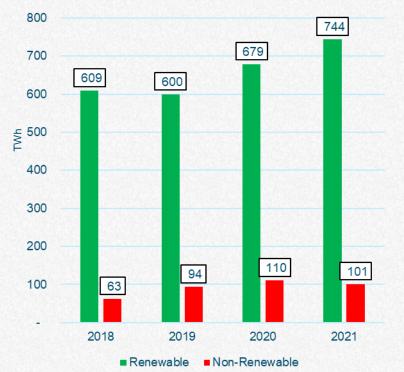


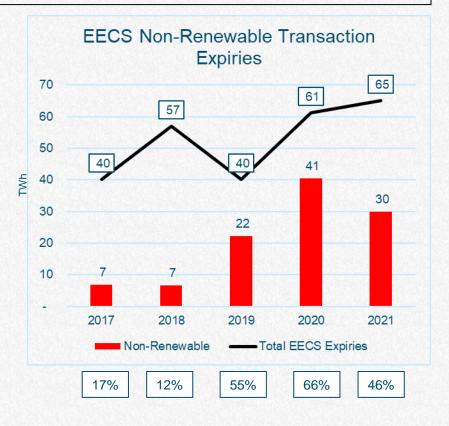
2019 2020 2021

2e) Market Overview

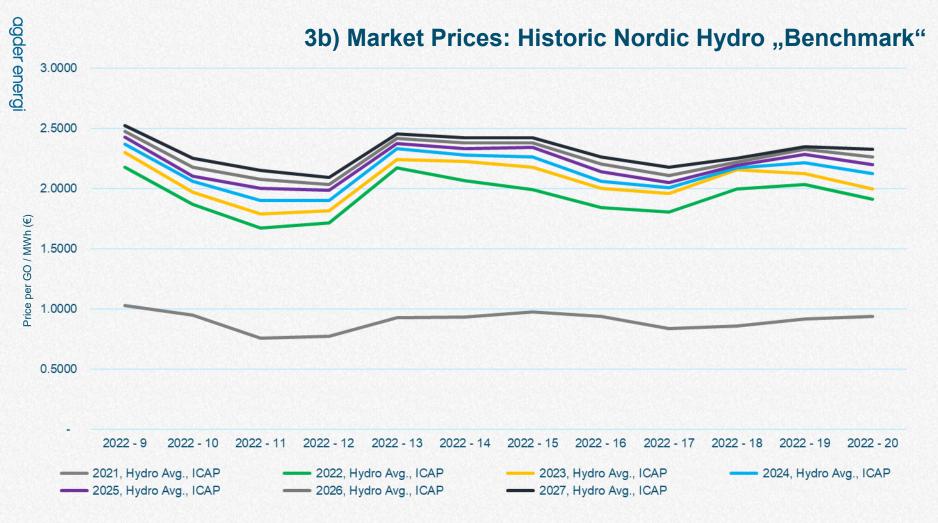
Total EECS Issuance & Expiries

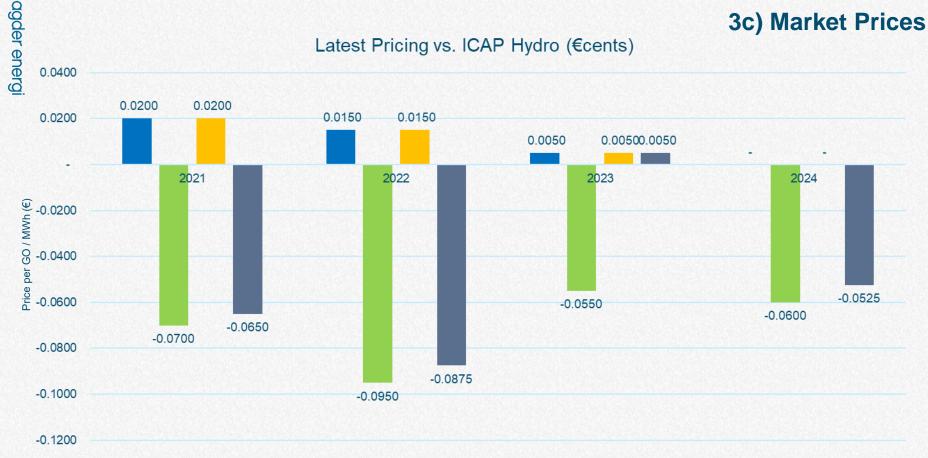
EECS Production Issuance











■ Wind ■ Any RES ■ Solar ■ Biomass

💲 green power hub	GO	ELCERT TRADE PARTNERS ⁹ MARKET DATA ?									🖬 🕹 William Dixon Agder Energi Vannkraft AS			
LATEST NEWS	7(0)	INTERESTS TR	ADES DEALS	CLOSIN										
Coal Freight 6 hours ago EU coal terminal stocks rise to 1 year high	.5-	H MARKET	1	DMPANY	C ANY RE	NEWABLE 🖽 A	NY <u>A</u> BIO	GEOTHERMAL	HYDRO	D NUCLEAR	ightarrow solar	⇒ WIND		
Gas 6 hours ago		EECS •	All years 🔹	EUR (38 0	of 46) 🔻	Commissione	d 🔹 Capad	city 🔹 Any fi	nance 🔹					
German Gazprom gas storage c hit targets – analysts	an	LIVE GO INTERESTS												
Power 6 hours ago Spot prices in northern Sweden remain volatile – analvst	to	PRODUCTION	I TECHNOLOGY	ORIGIN	VOLUME	ТҮРЕ	+ BID V LAS	+ AS	К 🔹 ТҮРЕ	VOLUME	ORIGIN	TECHNOLOGY	PRODUCTI	

Michael Gude

+47 413 45 660

michael@greenpowerhub.com

www.greenpowerhub.com

Green

Power

Hub

Gas Coal CO2

\$

6 hours ago END OF DAY – Carbon extends losses to 5-week low

Power Remit

8 hours ago PGE delays Opole 6 (905 MW) restart to 21 June

Power

9 hours ago Italy's April power demand rises 1% to 24 TWh

Power

9 hours ago GERMAN – June power falls amid EUA, gas weakness

Power

9 hours ago SPAIN – Spot power to drop on lower demand, more renewables

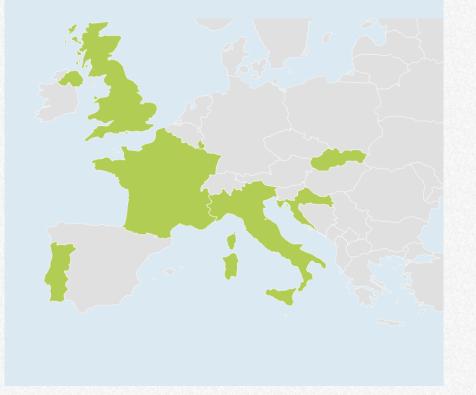
GAS – Prices fall on mild outlook. rising storage levels

4a) Auction Platforms

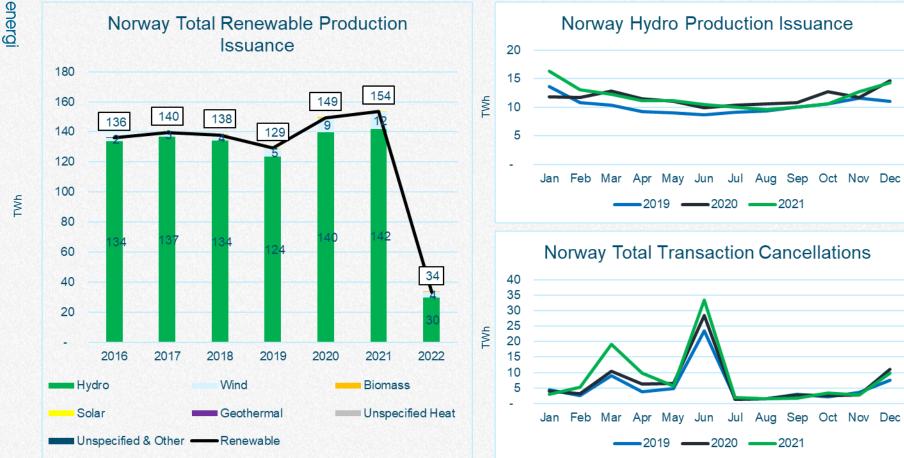
.... HU

agder energi

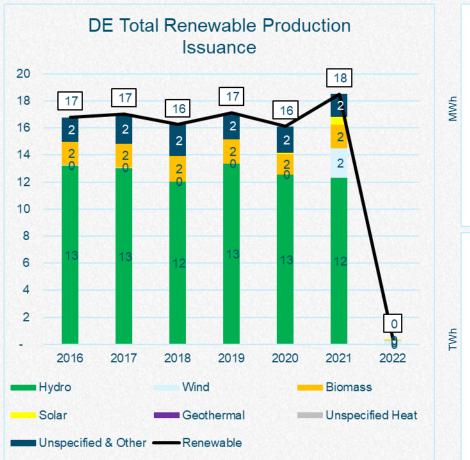
Auction Platforms of National Production



5) Case Studies: Norway



5) Case Studies: Germany





DE Total Transaction Cancellations

Apr May Jun Jul Aug Sep Oct Nov Dec

2019 -2020 -2021

30

25

20

15

10

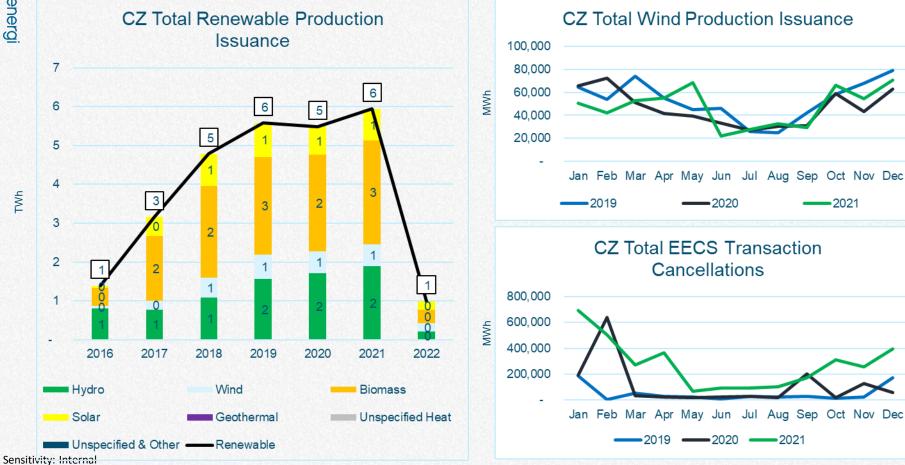
5

Jan

Feb Mar

DE Wind Production Issuance





5) The Future

• "Granularity" has traditionally been calendar year basis



- "Granularity" has traditionally been calendar year basis
- "Market Access" as clearing houses adopt certificate products

- "Granularity" has traditionally been calendar year basis
- "Market Access" as clearing houses adopt certificate products
- "EU Taxonomy" and consumer preference

- "Granularity" has traditionally been calendar year basis
- "Market Access" as clearing houses adopt certificate products
- "EU Taxonomy" and consumer preference
- "Full Disclosure" adopted in further nations

- "Granularity" has traditionally been calendar year basis
- "Market Access" as clearing houses adopt certificate products
- "EU Taxonomy" and consumer preference
- "Full Disclosure" adopted in further nations
- "Regulatory Updates" with Germany, Norway, UK



6) Further Reading/Contact

William Dixon Head of Product Development, Environmental Markets

+49 (0) 151 704 216 91 william.dixon@ae.no

Agder Energi Vannkraft AS Berlin Branch Kurfürstendamm 68 10707 Berlin Germany

Thank you!

0

1 2

0

0

TIFE

agder energi