# **Central European Gas Hub**



# 18<sup>th</sup> CEGH Feedback Workshop Vienna, 22 May 2019



# **18th CEGH Feedback Workshop**



#### Agenda

- Welcome, Opening Words
- Update CEGH VTP
- PEGAS Markets overview
- PEGAS CEGH Gas Markets AT, CZ
- Features of the new CEGH Website
- Feedback Session / Q&A
- Lunch

### **CEGH Volume Development 2018**

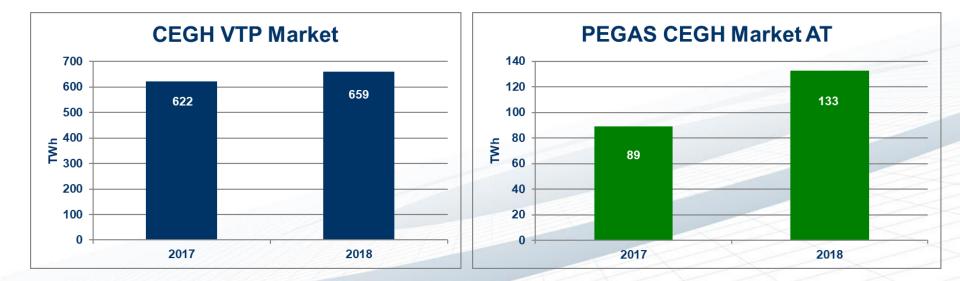
**CEGH** 

#### **CEGH VTP:**

2018: 658.91 TWh (y-t-y: **+5.9%**) 
 PEGAS CEGH Gas Market:

 2018:
 132.65 TWh

 (y-t-y: +49.2%)



# CEGH VTP Volume development and Austrian gas consumption (in TWh)

#### Volume Development at CEGH VTP 658,91 621,93 Gas Consumtion Austria 532 478,30 Traded Volumes at CEGH VTP 439,89 393,04 86,57 95,20 90,68 84,59 87,88 78.91 Source: CEGH, E-control Austria

Graph: d-maps.com

**Central European Gas Hub AG** 

### **CEGH Volume Development 2019**



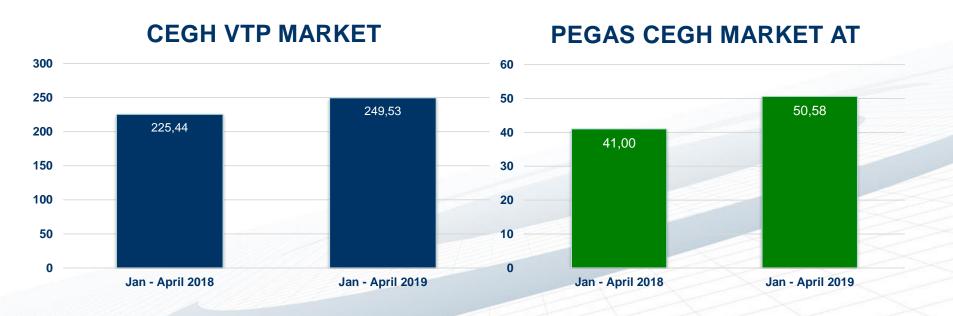
#### **CEGH VTP:**

Jan- April 2019: 249.53 TWh (y-t-y: **+10.68%**)

#### **PEGAS CEGH Gas Market:**

Jan- April 2019: 50.58 TWh

(y-t-y: **+23.4%**)



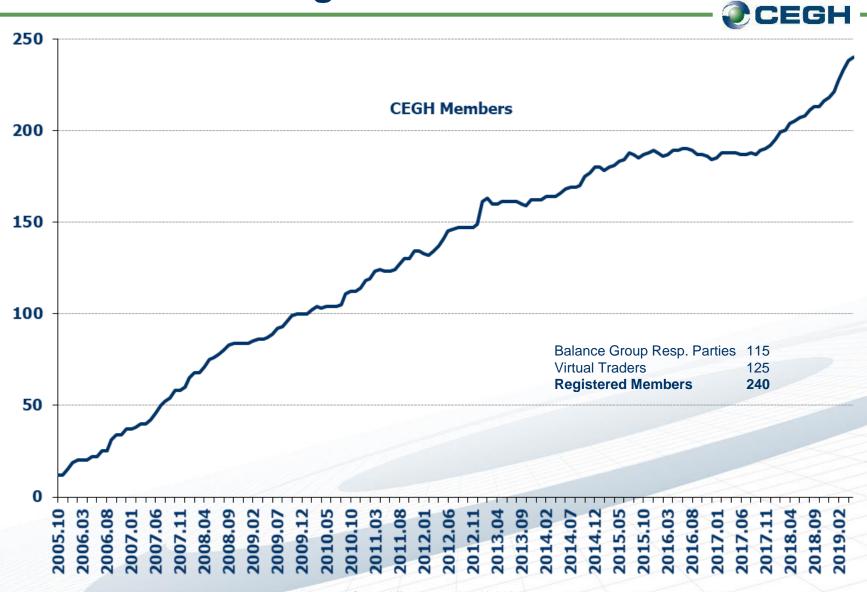
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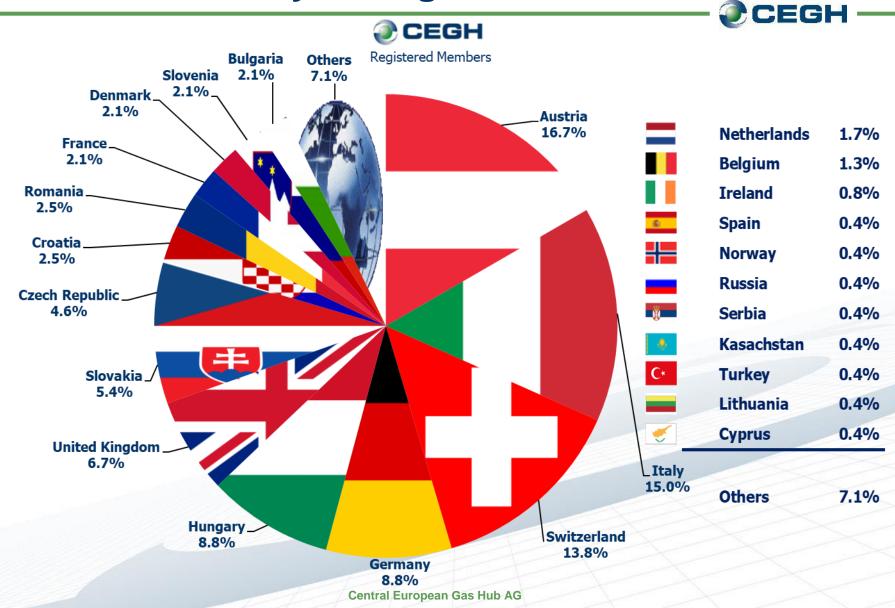
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# CEGH - Development of VTP Registered Members

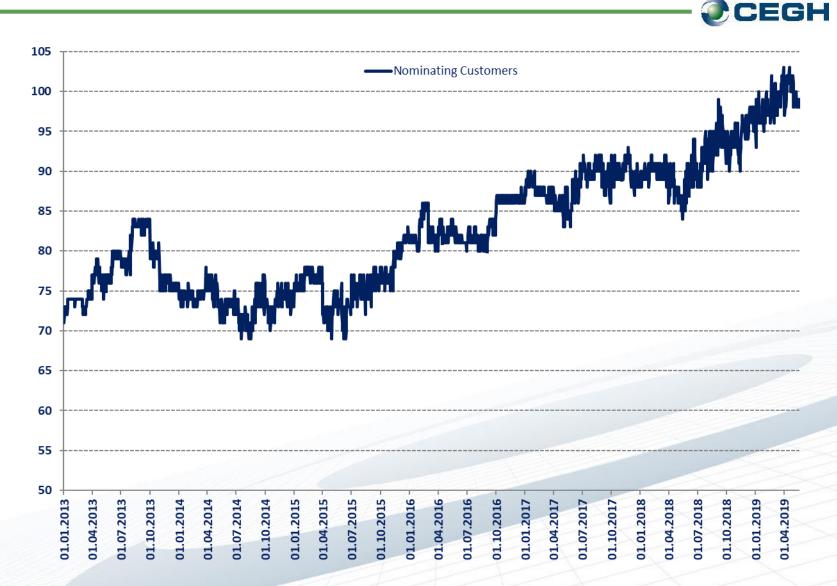


# CEGH - Development of VTP Diversity of Registered Members

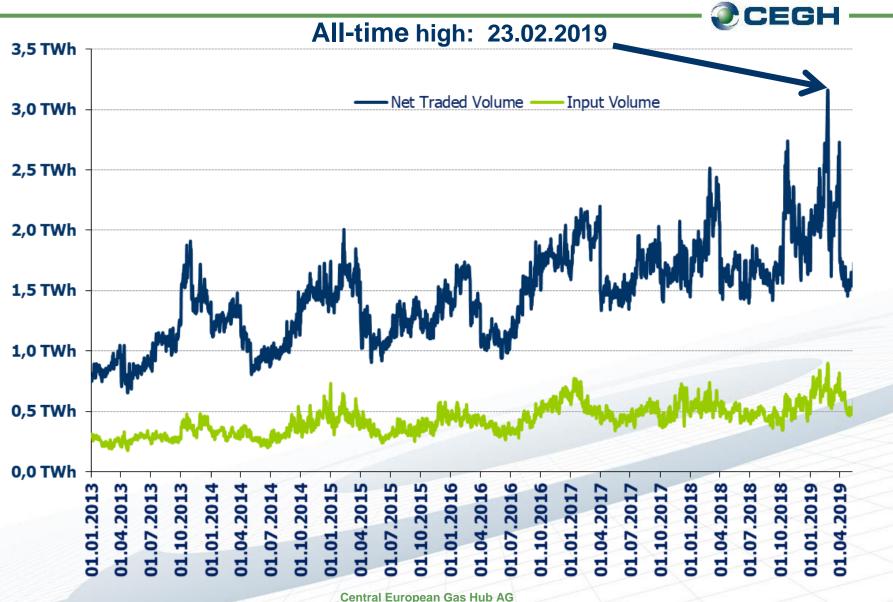


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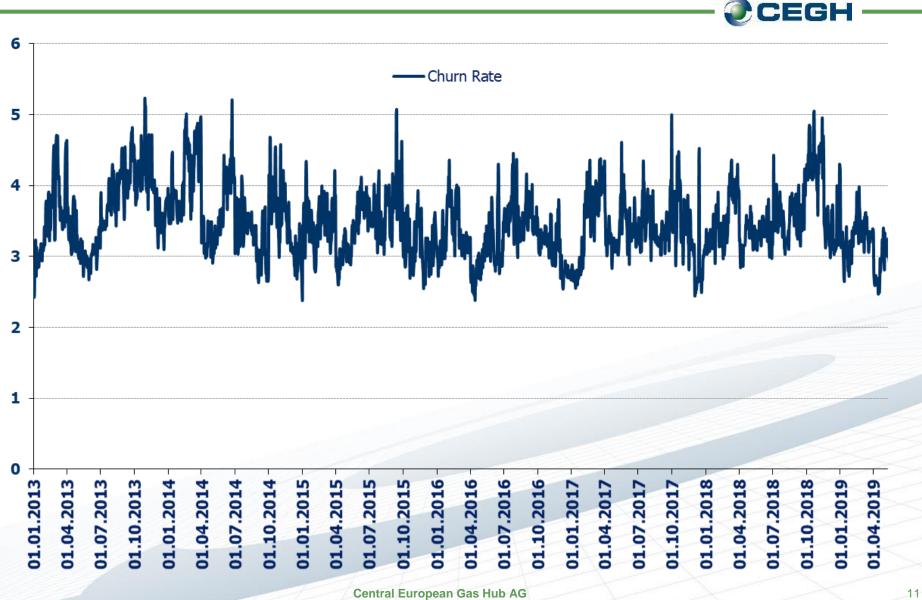
# CEGH VTP: Nominating Customers on daily basis since 2013



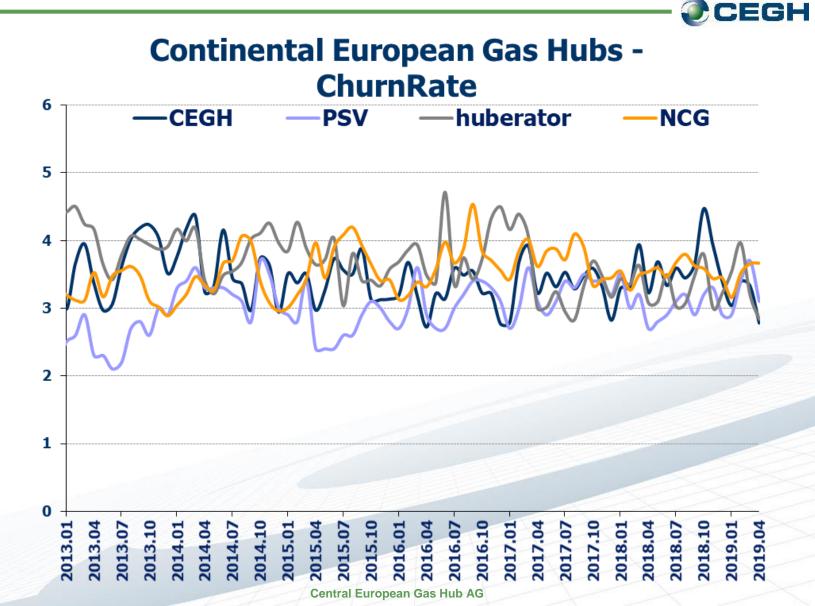
### **CEGH VTP: Daily Net Traded Volume since Jan 2013**



# **CEGH VTP: Daily churn rate since 2013**



# CEGH Development of VTP Continental European Gas Hubs - Churn Rate



### **CEGH Gas Storage Marketing Platform**



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# PEGAS Overview CEGH Feedback Workshop

22<sup>nd</sup> Mai 2019

pegas is the gas trading platform of eex group, operated by powernext

#### Agenda

**General presentation PEGAS** 

The PEGAS Development : Volume and updates

**Clearing Services** 

### PEGAS: EEX Group's Gas brand

#### >eex group

>eex
>ecc
>epexspot
>powernext
>pegas
<b>&gt;</b> pxe
> cltx
>nodal
> nodalclear
>gaspoint
nordic
Manua them

#### Powernext is part of EEX Group

EEX Group provides the central market platform for energy and commodity products in 35 countries worldwide. The offering of the group comprises contracts for Energy, Environmentals, Freight, Metals and Aariculturals.

With high specialization and local presence in their core markets the companies of EEX Group answer to the needs of their customers for tailor-made solutions and easy market access. The synergetic, integrated group portfolio is completed by two clearing houses which ensure a proper clearing and settlement of trading transactions.

EEX Group is part of Deutsche Börse Group and located in 16 locations worldwide.

The EEX Group consists of the specialists European Energy Exchange, EPEX SPOT, Powernext, Cleartrade Exchange, Power Exchange Central Europe (PXE), Gaspoint Nordic, Nodal Exchange and the clearing companies European Commodity Clearing (ECC) and Nodal Clear.

2017: launch of cooperation CZ VTP between Powernext, CEGH and PXE.

2016: integration of spot and futures products of CEGH and Gaspoint Nordic into PEGAS platform.

#### More than 540 employees in 16 different locations

01, Leipzig - HQ	09_Milan
02_Amsterdiam	10_0slo
03_Berlin	11, Paris
04_Bern	12_ Progue
05_Brussels	13_ Singapore
06_Copenhagen	14_Vienna
07_London	15_ Modrid
08_Luxembourg	16. Washington D.C.



**EEX** is Europe's leading energy exchange. It offers contracts on energy, environmental products, freight, metals and agricultural products for trading.

ECC provides clearing as well as physical and financial settlement of the transactions concluded on its partner exchanges.

**EPEX SPOT** operates the power spot markets of the Group, offering day-ahead and intraday trading, capacity auctions, market coupling and market operation services.

Powernext offers spot and derivatives trading for the European natural gas markets and operates the register for French guarantees of origin.

**PEGAS** is the central gas trading platform of EEX Group, operated by Powernext.

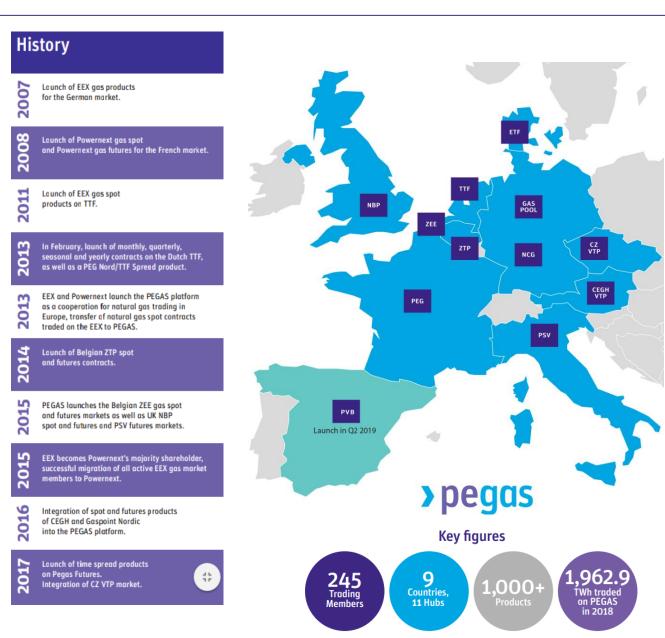
**PXE** is the center of competence for the Central and Eastern European markets.

**Nodal Exchange** is a derivatives exchange for the North American energy markets, offering contracts on power and natural gas.

Nodal Clear is a CFTC registered derivatives clearing organization and provides clearing for all contracts on Nodal Exchange.

**EEX Asia** is a Singaporean regulated futures exchange which operates the Group's Global Commodities portfolio in Asia.

### PEGAS detailed products and services



#### Spot markets 24/7

- Within-Day
- Day-Ahead
- Weekend (+ Saturday & Sunday)
- Individual Days

#### **Futures Markets**

- Month +6
- Quarters +7 (11 for TTF)
- Seasons +6 (+3 for PVB)
- Calendars +6 (+2 for PVB)

#### Other products and services

- Locational
   Third party
   Spreads trading
   shipping
  - Time Spreads Combined cash limits
- OTC trade
  - registration (STP) · Data and indices
  - TTF Options Reporting
- Third party trading

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### PEGAS Markets offering – legal framework

Powernext manages legally three different trading platforms for gas products under three sets of rules

Technically, all platforms can be accessed through one single screen

Po	wernext Commodities	Powernext Derivatives		Powernext Organized Trading Facility	
-	PEGAS Spot	PEGAS Regulated Market		PEGAS	OTF
(With	<u>Short term products</u> hin-Day, Day-Ahead, Week-end)	Long-term products (Months, Quarters, Seasons, Calendars)		Long-term products (Months, Quarters, Seasons, Calendars)	
	All non-financial instruments	All financial instruments		Non-financial instruments (all hubs except Begium)	Financial instruments (Belgium)
	t be » physically settled contracts: balancing agreement needed	<ul> <li>Can be » physically settled contracts: Balancing or close-out agreements</li> </ul>		« Must be » physically settled contracts: balancing agreement needed	« Can be » physically settled contracts: Balancing or close-out agreements
C	Only REMIT regulation applies	REMIT, MiFID regulations apply		Only REMIT regulation applies to these products	REMIT, MiFID regulations apply to these products

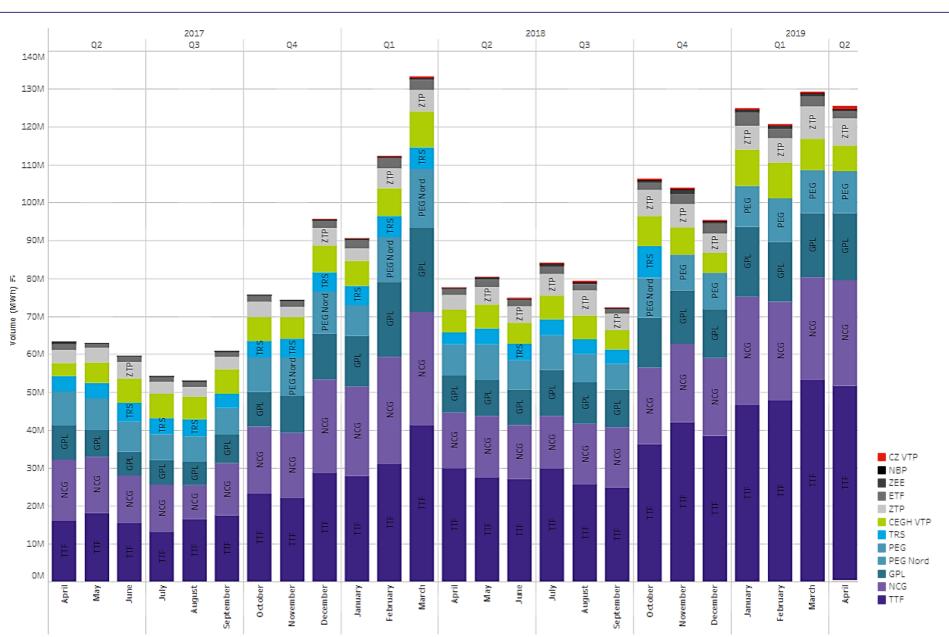
#### Agenda

General presentation PEGAS

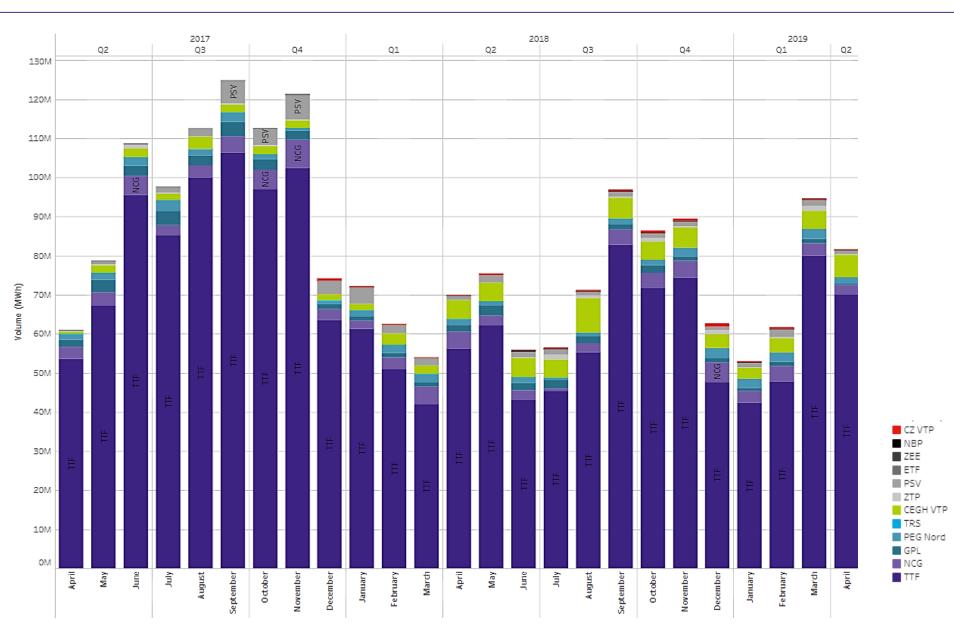
The PEGAS Development : Volume and updates

**Clearing Services** 

### PEGAS Volume – Global Gas Spot



### **PEGAS Volume - Global Gas Futures**



#### Agenda

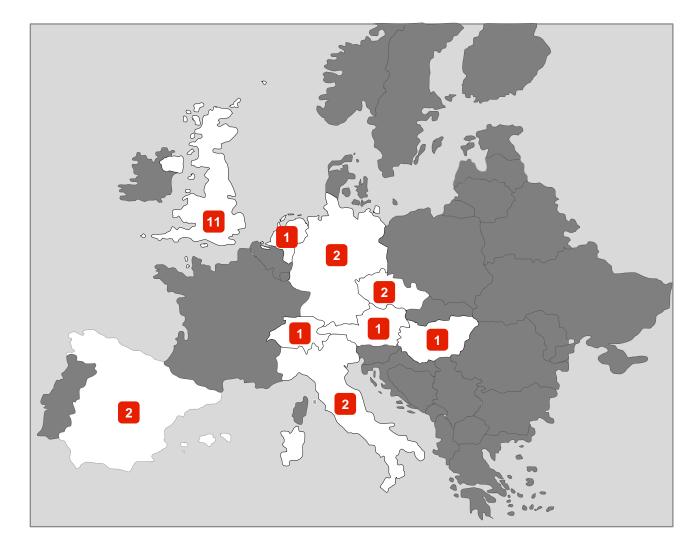
#### General presentation of the EEX Group, Powernext and PEGAS

The PEGAS Development : Volume and updates

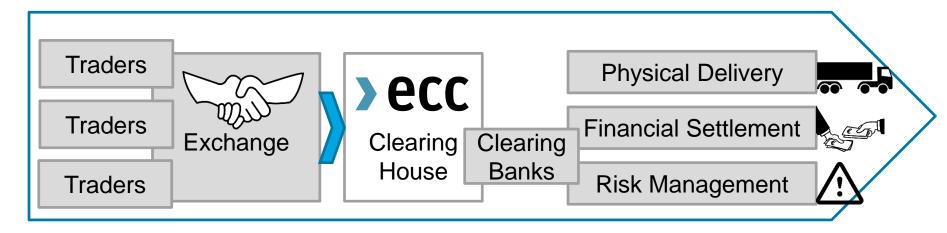
**Clearing Services** 

### **Network of Clearing Members**

#### 23 **Clearing Member** ABN AMRO Clearing Bank N.V. Banca Akros SpA Banca Popolare di Sondrio SCPA Banco Santander, S.A. Bayerische Landesbank BNP Paribas Commodity Futures Ltd. **Citigroup Global Markets** Commerzbank ED&F Man Capital Markets Limited **Goldman Sachs International** INTL FCStone LTD J.P. Morgan Securities plc. KELER CCP Ltd. Macquarie Bank International Marex Financial Limited Merrill Lynch International Morgan Stanley & Co. International plc Oesterreichische Kontrollbank AG Raiffeisenbank a.s. Renta 4 Banco Societe Generale Newedge UK Limited **UBS AG** UniCredit Bank Czech Republic and Slovakia. a.s.



### Clearing: Crucial Step after each Exchange Trade

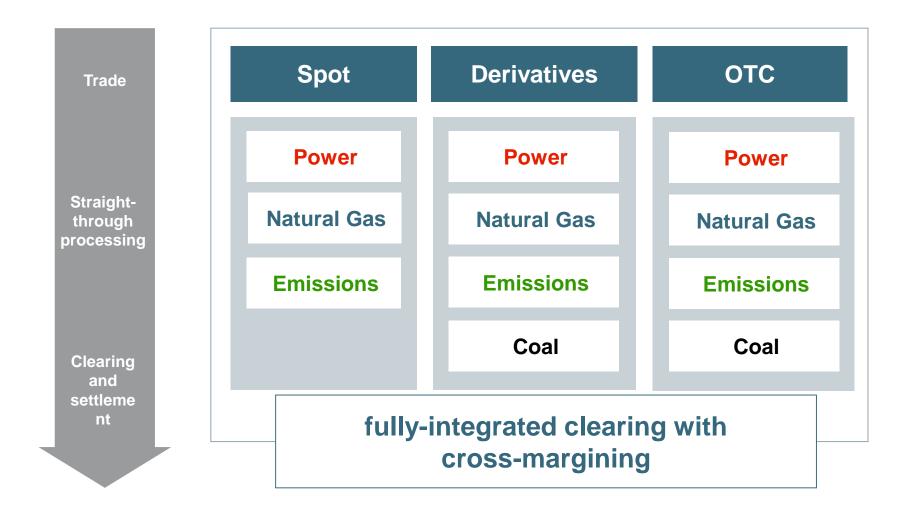


> All trades and payments will be reported on a daily base to clients, if subscribed.

#### **Clearing House ECC:**

- ✓ Central counterparty
- ✓ Guarantees proper fulfillment
- Connects exchanges and OTC markets using an integrated clearing platform

# Clearing : Cost-effective margining through ECC



### **18th CEGH Feedback Workshop**

>pegas

#### **CEGH**

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- Welcome, Opening Words
- Update CEGH VTP
- PEGAS Markets overview
- PEGAS CEGH Gas Markets AT, CZ
- Features of the new CEGH Website
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- Lunch



# **CEGH** >pegas >powernext

>pegas

### **PEGAS CEGH Gas Markets**

**PEGAS CEGH Gas Market** 

# **Detailed Products and Services Offering**

#### >pegas

#### Spot markets

- Hourly
- Within-Day
- Day-Ahead
- Weekend
- Saturday
- Sunday
- Individual Days

#### Futures regulated markets

- Next 6 Months
- Next 7 Quarters
- Next 6 Seasons
- Next 6 Calendar years

#### **OTF markets**

- Next 6 Months
- Next 7 Quarters
- Next 6 Seasons
- Next 6 Calendar years

CEGH

Locational Spreads trading facility with TTF, GPL, NCG, PSV and CZ VTP

#### **Time Spreads**

#### Trade registration for futures contracts

Bilateral trade clearing at ECC trough STP or OTC Web platform

#### **Data and indices**

All customers have free access to EEX ftp and PEGAS tools CEGHIX, CEGHEDI, 1<sup>st</sup> FM, 1<sup>st</sup> FQ and 1<sup>st</sup> FM Reference Index are published on the CEGH website

**PEGAS CEGH Gas Market** 

# **PEGAS CEGH Spread Products**

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#### Locational Spreads:

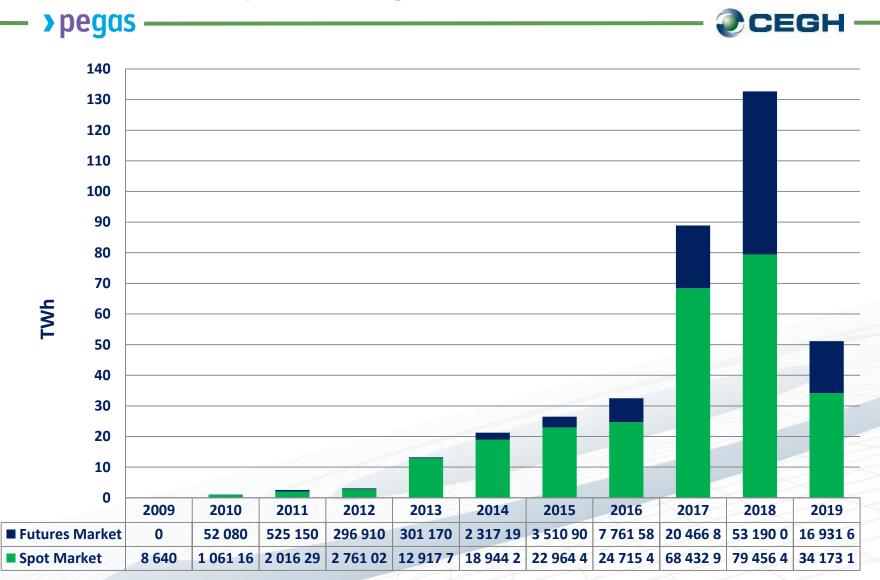
- Used for change of ownership between different hubs without having shipping capacity rights
- At Spot and Derivatives Market
- Difference (Spread) between Hubs is traded
- e.g. CEGH/TTF Spread
  - Bid Order: Buy CEGH; Sell TTF
  - Ask Order: Sell CEGH; Buy TTF

#### • Time Spreads:

- Used to change ownership within different futures products
- For Storage Optimization
- e.g. May 18 / June 18 Spread
  - Bid Order: Buy May; Sell June
  - Ask Order: Sell May; Buy June

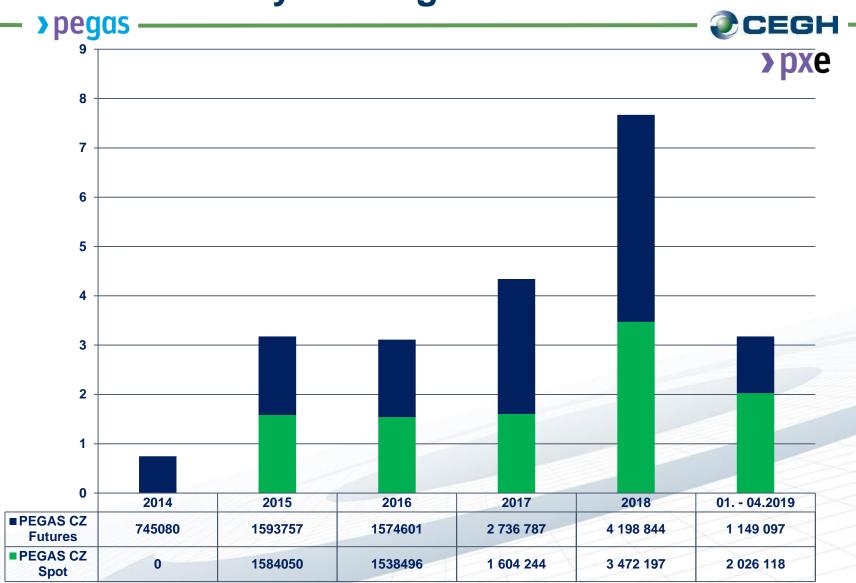


### CEGH Gas Exchange: Yearly Trading Volume since 2009

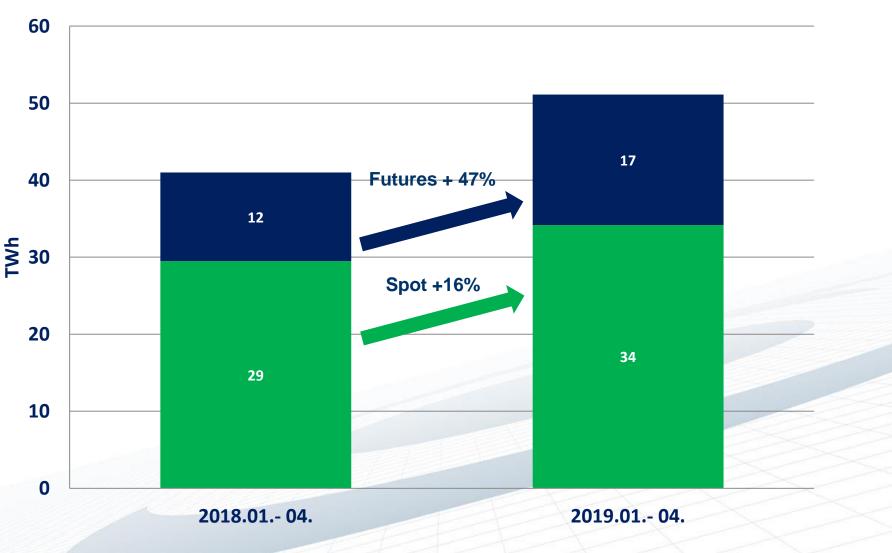


#### **PEGAS CEGH Gas Markets**

# PEGAS CEGH Czech Gas Market: Yearly Trading Volume since 2014

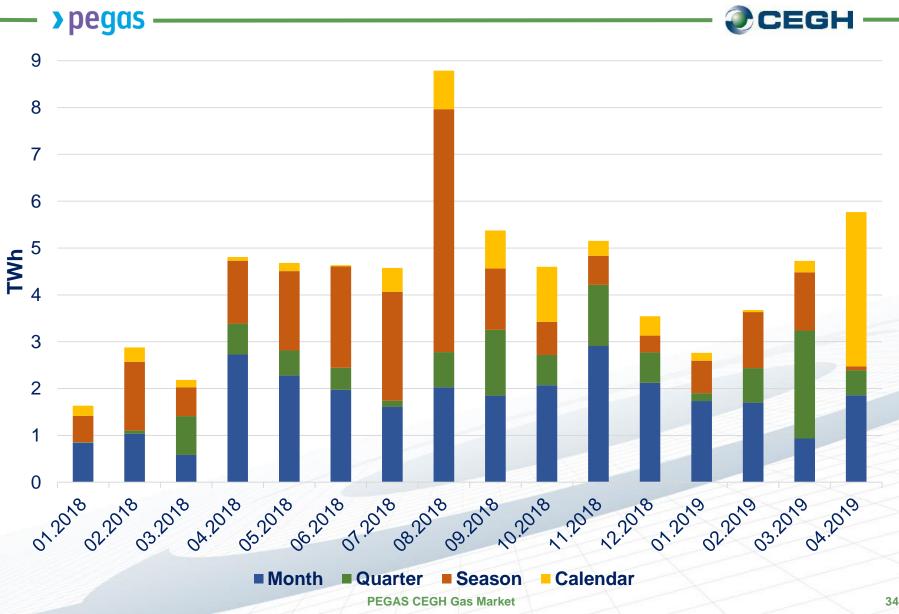


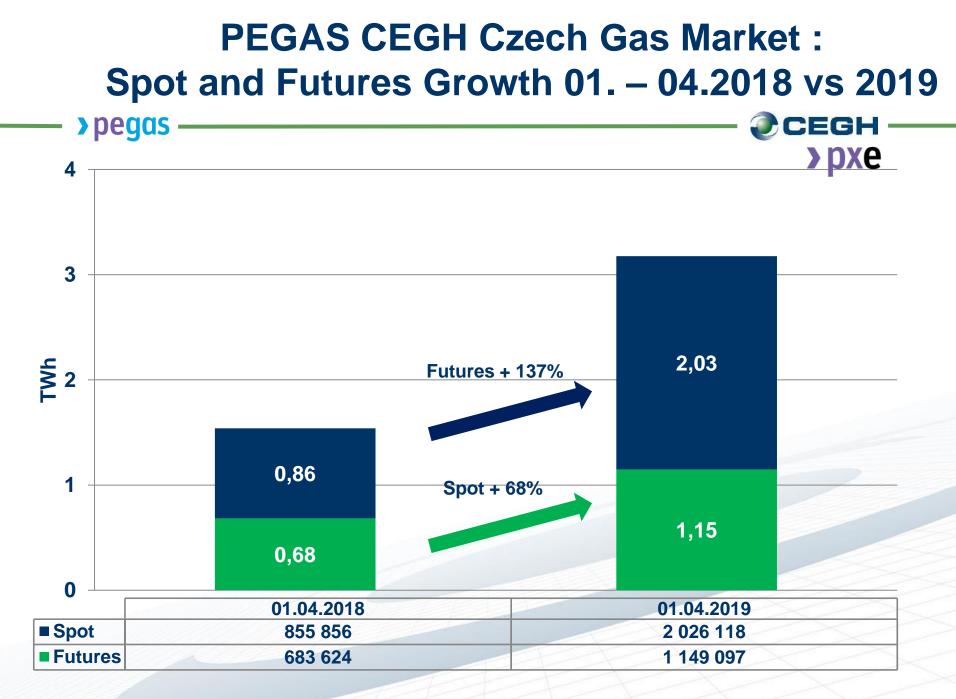
#### PEGAS CEGH Austrian Gas Market: Spot and Future Growth 01.- 04.2018 vs 2019 >pegas — @CEGH



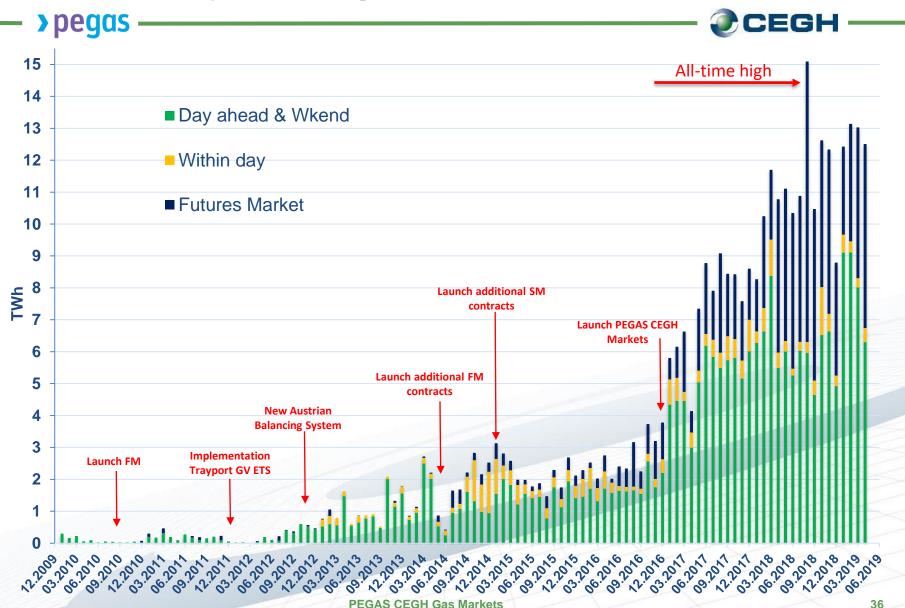
**PEGAS CEGH Gas Market** 

## PEGAS CEGH Austrian Gas Market: Monthly Futures Volume since 2018





# PEGAS CEGH Gas Market Monthly Trading Volume since Dec 2009



## PEGAS CEGH Czech Market: Monthly Trading Volume

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Feb. May A

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H04.14

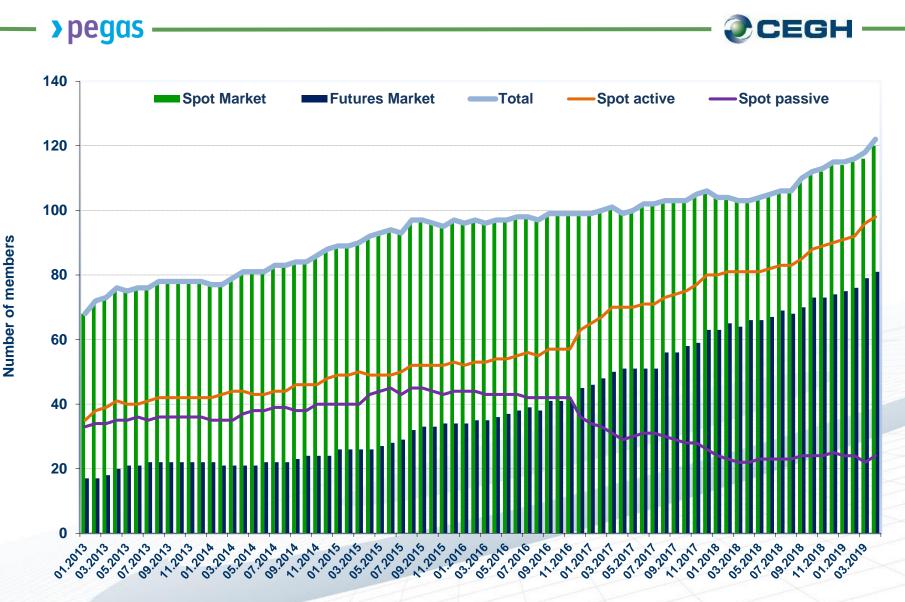
**Traded Volume on Spot & Futures Market** 1200 All-time high 1000 Futures Market Spot Market Launch PEGAS CEGH CZ Market 800 GWh 600 Launch **CZ Spot Market** 400 200

Central European Gas Hub AG

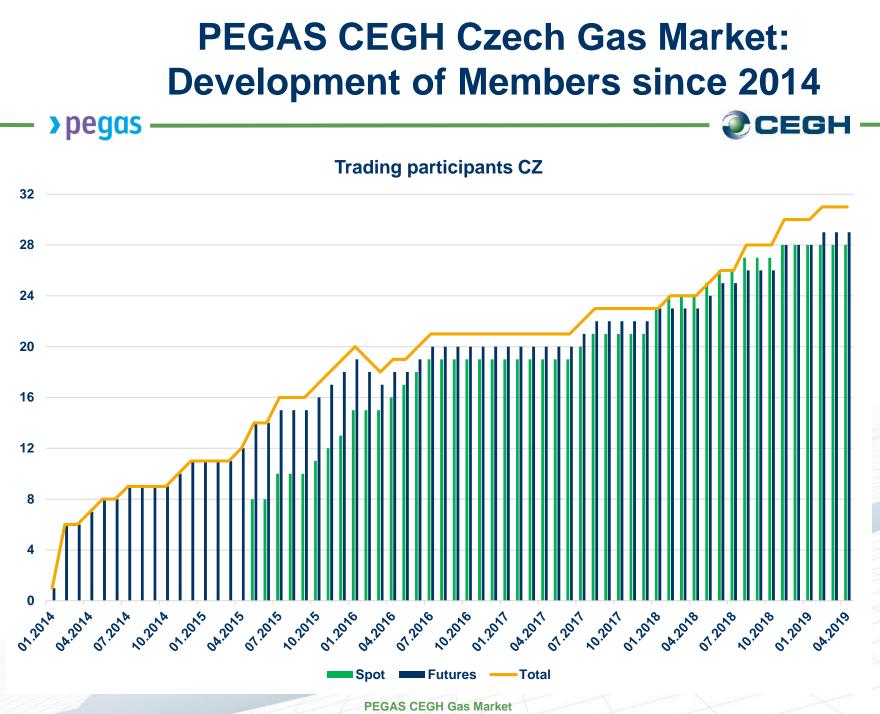
CEGH

>pxe

## **Development of the Members since 2013**



**PEGAS CEGH Gas Markets** 







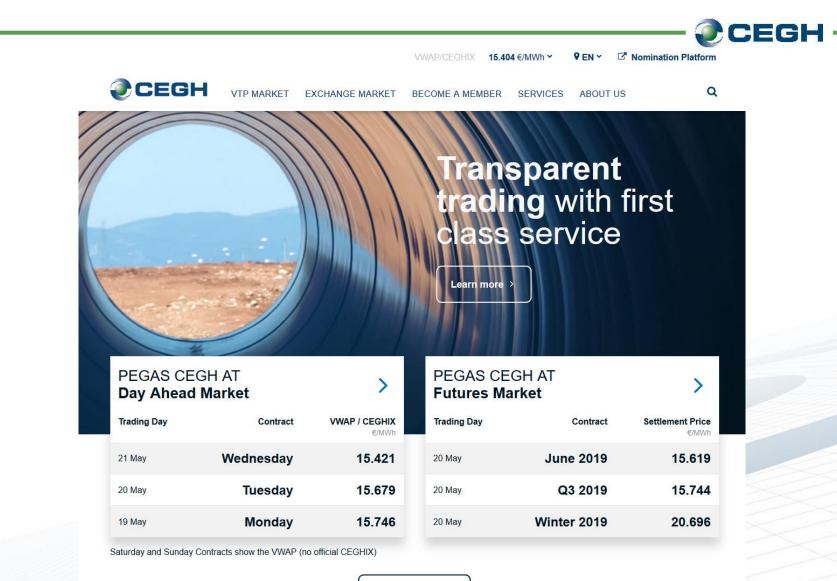
## **Questions?**

**PEGAS CEGH Gas Market** 



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All market data >



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Main Features of new CEGH Website:

- Detailed Market Data information on CEGH Website: incl. download of the last 3 months
- CEGHIX alert: online registration for daily notifiation
- Online registration tool for new CEGH members
- List of all registered CEGH members
- Measures of Liquidity according to EFET guidelines
- Registration for CEGH Newsletter
- Direct access to CEGH CMT Nomination Platform
- Links to CEGH REMIT Platform and CEGH Gas Storage Marketing Platform



Market Data for CEGH VTP:

- Table with monthly nominated volume back to 2013
- Download of VTP nominated volumes on daily basis back to 2013
- List of all registered CEGH members

#### CEGH VTP Volumes



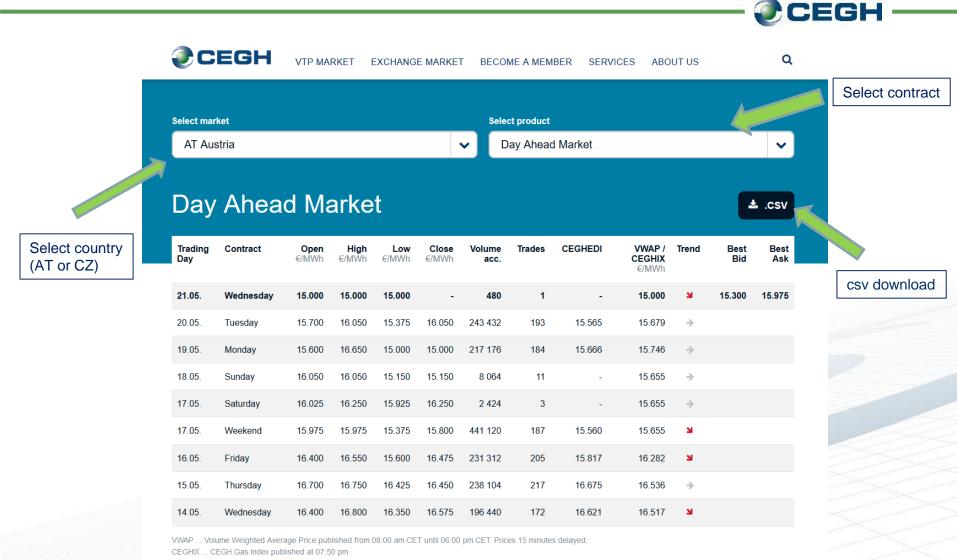
With the launch of the new Austrian Gas Market Model by 1 January 2013 all CEGH Volumes are published in energy units.

Delivery Month	Net Traded Volume TWh	Physical Volume TWh	Churn Rate
2019-04	48.13	17.3	2.78
2019-03	68.14	20.46	3.33
2019-02	67.77	19.55	3.47
2019-01	65.49	21.56	3.04
2018.12	56.88	16.78	3.39
2018.11	61.65	15.72	3.92
2018.10	65.50	15.26	4.29
2018.09	48.54	13.31	3.65
2018.08	50.19	14.57	3.44
2018.07	52.95	14.74	3.59
2018.06	45.33	13.59	3.33
2018.05	52.43	15.83	3.31



#### Market Data for PEGAS CEGH Gas Exchange Market:

- Overview of all trades per day (accumulated, DA with 15 minutes delay, Futures at the end of the day)
- Index for Austria: CEGHEDI, CEGHIX, 1st Front Month, 1st Front Quarter
- Index for CZ: CZ Spot Reference Price
- Single select function: search for any historic day to see the Market Data for this specific day
- Market Data download with data of the last 3 months (in csv format, per contract)
- Subscription for daily CEGHIX notification



Please mind that the price for Saturday and Sunday is no official CEGHIX (Index), but shows the VWAP to give a price indication for these products. The price for weekend products is the official CEGHIX for this time period.

- **CEGH**
- Settlement prices are published daily at around 07:15 p.m.
- CEGHIX alert is sent at the same time





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## Save the Date: 19th CEGH Feedback Workshop: 5 December 2019, Palais Coburg, Vienna



**Central European Gas Hub AG** 



# Thank you very much for your attention

