

## **Investor Presentation**

Czech Gas Networks Investments S.à r.l.

June 2023
Strictly Private and Confidential

www.cgni.eu

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## **Today's Presenters**

#### **Thomas Merker**



Chief Financial Officer of Czech Grid Holding

- Previously: CFO of innogy Czech
- 25 years of experience in energy sector

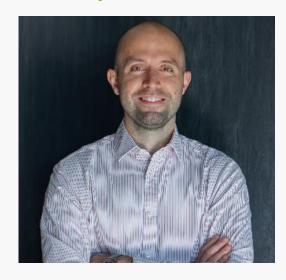
**Pavel Dočekal** 



Head of Regulatory, Legal & Internal audit in GasNet

- Previously: Head of Regulatory Affairs/innogy Czech
- 25 years of experience in energy sector

Jiří Steklý



## Head of Finance and Controlling in GasNet

- With GasNet since September 2020
- Previously: Head of Treasury in Pražská energetika
- 11 years of experience in energy sector



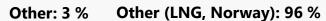
## Agenda

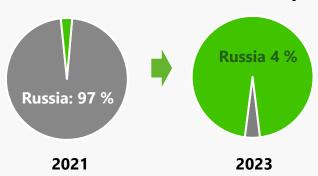
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# Although the overall environment in 2022 was very challenging, the last year was again a successful year for CGNI

- Almost complete restructuring of deliveries from 97% Russian gas to Norwegian gas and LNG within 9 months. The shift in flow is structurally sustainable, and the country's largest utility also acquired a stake in an LNG terminal in the Netherlands in 2022 to secure up to one third of the country's annual consumption.
- Stable operation, no curtailments or technical shortages in gas supply
- Although distribution volumes decreased significantly due to price hikes and geopolitical uncertainty, financial and operating objectives were met
- Regulatory rules for ongoing RP5 prove resilience
- Strong engagement in the energy transition in the Czech Republic

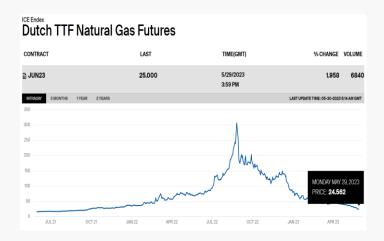
The dependance of the Czech Republic on Russian gas dropped to almost zero



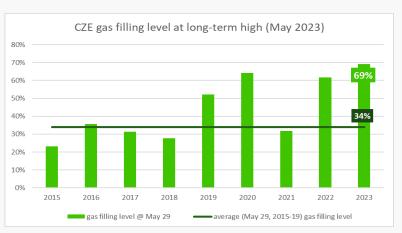


Source: MPO (Ministry of Industry and Trade)

## Gas prices declined to pre-war levels after the all-time peak in Q3/2022



## Gas storage filling levels increase to all time highs in 2023.



\* 2015 – 2021 data available only for RWE Gas Storage CZ, thus the comparison performed at the level of RWE Gas Storage CZ.

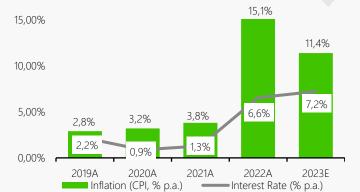
A resilient economy with below average but steadily growing indebtedness, an unemployment among the lowest in the EU, however with relatively high inflation and interest rates, rated Aa3 / AA- / AA-

> Avg. inflation rate of 7.2% vs. 4.1% in the EU<sup>(1)</sup>

> > 84.8% in the EU<sup>(1)</sup>

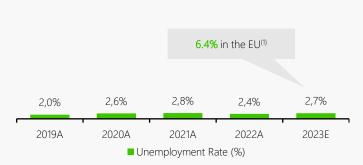






#### **Unemployment Rate, 2019 – 2023**





Source: Rating Agency reports, EIU. Note: (1) EU considers EU-27 as of 2020.

Public Debt as % of GDP, 2019 - 2023



#### **Czech Macro Developments**

- Robust medium-term growth dynamics and broad economic resilience in the midst of current geopolitical crisis
- Record levels of employment
- Liquid and well capitalized banking system
- Central bank reacted to rising inflation figures by a sharp tightening of its monetary policy
- Significantly reduced reliance on Russian natural gas over 2022
- Rating agencies have reaffirmed their views on the Czech economy

#### Rating Agencies' Views

Moody's Aa3 (Negative)

"Czech Republic's credit profile is supported by its fundamental credit strengths ... competitive economy, a strong institutional set-up, favourable fiscal metrics..."

Moody's, May 2023

S&P Global Ratings

AA- (Stable)

"... solid government and external balance sheets... ... improved energy security..."

S&P Global Ratings, April 2023

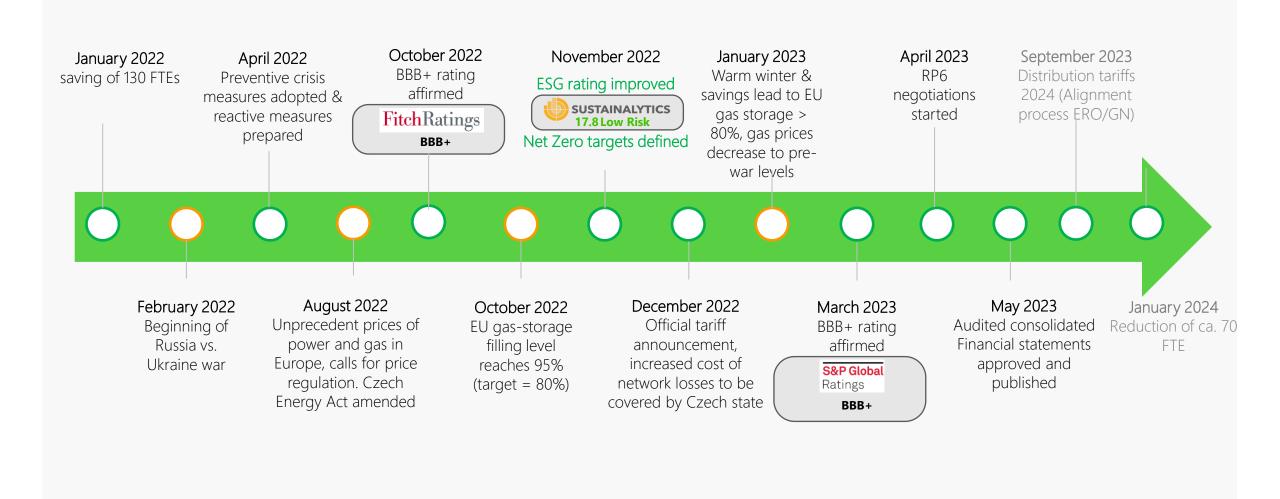
**Fitch**Ratings

AA- (Negative)

"...underpinned by a record of credible macroeconomic and monetary policies, a robust institutional framework, and strong external finances..."

Fitch Ratings, March 2023

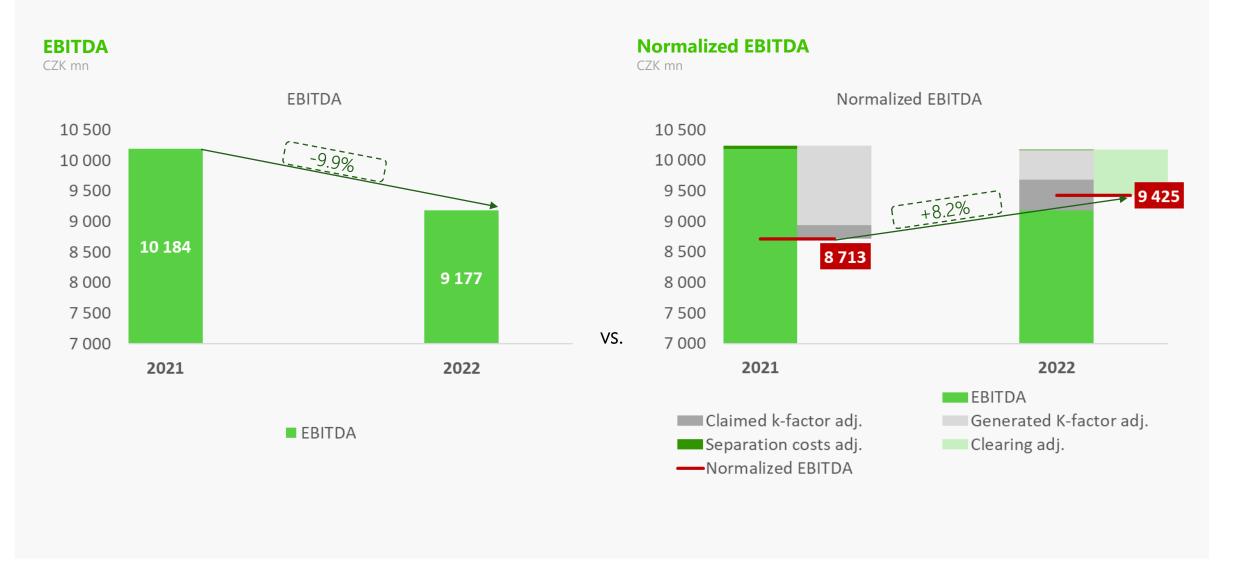
## Key events 2022 and 2023



## Agenda

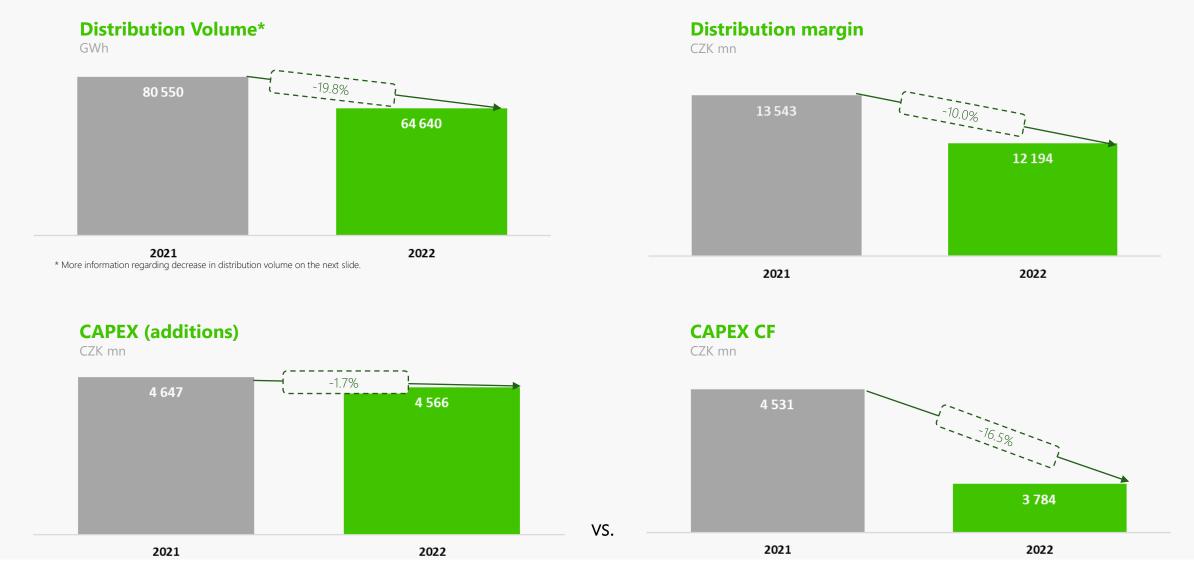
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## 2 Strong financial performance in 2022 despite general downturn in the gas market

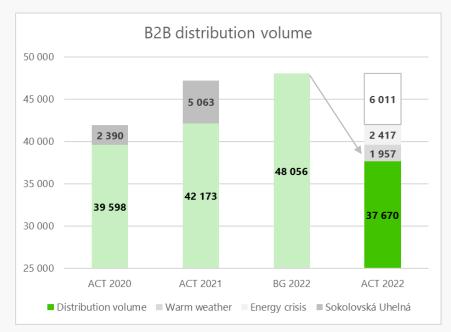


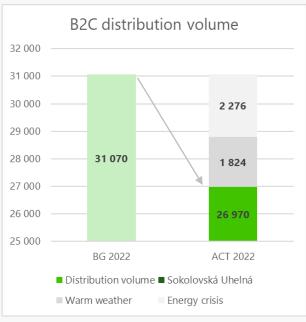


## Strong financial performance in 2022 despite general downturn in the gas market, CAPEX cash-flows delayed as one of the preventive measures applied by the company in 2022



## Distribution volume dropped in 2022 mainly as a result of warm weather and the energy crisis. Volume risk in 2023 mitigated via reduction in allowed volume.



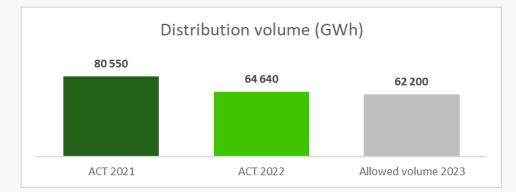


#### 2022

B2B: Decrease driven mainly by temporary shutdown of Sokolovská Uhelná powerplant, warm weather in Q1 and Q4/2022 and energy crisis

**B2C:** Decrease of B2C segment mainly caused by warm weather in Q1 and Q4/2022 and energy crisis.

Drop in distribution volume in both segments due to energy crisis was in 2022 ca.6%



#### 2023

Volume risk in 2023 mitigated via reduction in allowed volume that was used for calculation of distribution tariffs. Therefore, the achievability of allowed revenues does not seem to be at risk. (disruption in gas flows not assumed)

Actual distribution volume in 2023 in line with allowed volume so far.

## 2022 CGNI Consolidated Statement of Profit or Loss and Other Comprehensive Income with EBITDA ca. CZK 9.2 bn and the Loss for the period ca. 2.7 bn. caused mainly by revaluation of derivatives (non-cash item)

In millions of CZK	2022	2021
Revenue	13 981	15 069
Other income	106	102
Work performed by the Group and capitalised	465	456
Net impairment reversals on financial assets	-24	-3
Raw materials and consumables used	-337	-220
Employee benefits expense	-2 085	-2 152
Depreciation and amortisation	-6 887	-7 173
Services	-2 666	-2 373
Other operating expenses	-263	-695
Operating profit	2 290	3 011
Finance income	1 361	3486
Finance costs	-6 260	-1 725
Profit / (loss) before income tax	-2 609	4 772
Income tax expense	-106	-255
Profit / (loss) for the period	-2 715	4 517
Other comprehensive income for the period	-	
TOTAL COMPREHENSIVE PRIFIT / (LOSS ) FOR THE PERIOD	-2 715	4 517

- Consolidated revenues of the Group approximately CZK 14 bn in 2022. YoY decrease due to cold winter 2021 vs. warm winter 2022 and European energy crisis, both leading to YoY decrease in distribution volume from approx. 80TWh in 2021 to approx. 64.6 TWh in 2022.
- Decrease in personnel costs by CZK 67 million driven by YoY reduction in employees by approx. 130 at the beginning of 2022. The Group employed 2,286 employees at 2022 YE (2,401 at 2021 YE).
- Increase in costs of raw materials, energies and services by ca CZK 410 million is associated mainly with increase in fees payable to transmission system operator (Net4Gas).
- The EBITDA of the company amounted to exceptional CZK 9,177 million for the year 2022.
- Loss for the period in the amount of CZK -2,715 million was (on contrary with the previous year) negatively affected by mark-to-market revaluation of derivatives (non-cash item), as the company has not adopted hedge accounting.
- In case of derivatives the negative impact of mark-to-market revaluation of cross-currency swaps (CCS) significantly outperformed negative mark-to-market revaluation of interest rate swaps (IRS) .
  - IRS CZK 4,390 million
  - CCS (CZK 8,516 million)
- In case of borrowings denominated in EUR, the unrealized FX gain amounted to CZK 1,190 million.

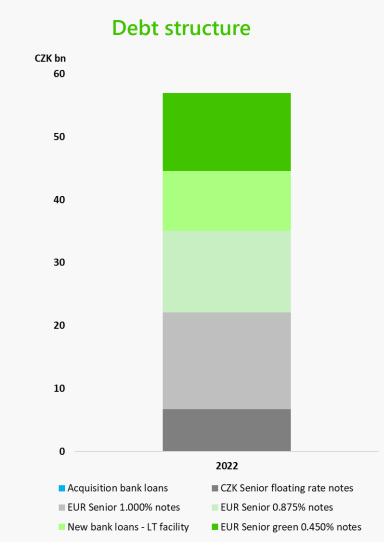
## 2 CGNI Consolidated Statement of Financial Position as of December 31, 2022 with Total Assets around CZK 116 bn.

In millions of CZK	31 December 2022	31 December 2021
ASSETS		
Non-current assets		
Property, plant and equipment	99 450	102 195
Right-of-use assets	3 151	3 046
Intangible assets	818	826
Derivative financial assets	4 962	4622
Other non-current assets	1	1
Total non-current assets	108 382	110 690
Current assets		
Inventories	6	5
Trade and other receivables	585	616
Income tax prepayment	8	-
Other taxes receivable	1	-
Cash and cash equivalents	4 040	1 376
Derivative financial assets	2888	795
Total current assets	7 528	2 792
TOTAL ASSETS	115 910	113 482

2022 1 26 173 -9 382 16 792 68 554 2 037 14 133 56 320	2021 1 27 219 -6 667 20 553 69 204 1 983 14 729 52 339
26 173 -9 382 <b>16 792</b> 68 554 2 037 14 133 56	27 219 -6 667 <b>20 553</b> 69 204 1 983 14 729 52
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2 037 14 133 56	1 983 14 729 52
2 037 14 133 56	1 983 14 729 52
2 037 14 133 56	1 983 14 729 52
14 133 56	14 729 52
56	52
320	339
7 179	3533
92 279	89 840
595	343
235	190
2 261	1 911
745	200
43	70
168	180
77	168
0745	27
2/15	3 089
6 839	
	92 929
	168 77 2715

- CGNI non-current assets worth over CZK 108 bn.
- Derivative financial assets and liabilities arose as a result of fair value changes of financial derivatives
- Borrowings of the company consists of both senior unsecured notes and bank financing as well as of subordinated shareholder loans (ca. CZK 14bn)
- Significant balance of deferred income tax liabilities relates mainly to the difference between accounting and tax value of non-current assets
- Increase in accumulated deficit as a result of PY loss caused mainly by net loss on trading derivatives.

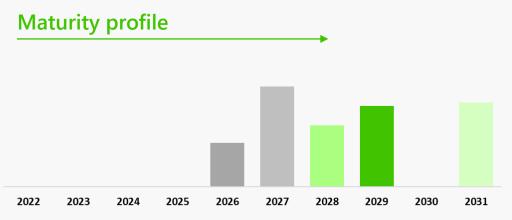
### 2 Debt structure remained unchanged compared to 2021, net debt decreases with respect to shareholders' decision to temporarily suspend dividends.



#### KPIs @ Dec 31, 2022

- Net debt\* = CZK 53.1bn (CZK 55.4bn @ Dec 31, 2021)
- Net debt / RAB = 88%
- Net debt / EBITDA = 5.78x
- FFO net leverage = 6.25x
- No financial covenants unless being downgraded to SubIG\*\*
- Subordinated shareholder loans maturing in 2044 amounted to ca. 14 bn CZK as of December 31, 2022.

<sup>\*\*</sup> The covenants imposed by banks require the Company to be assigned the credit rating corresponding the investment grade. If the rating would be below the investment one and the amount of net debt is less than RAB the Group shall repay its bank borrowings immediately.

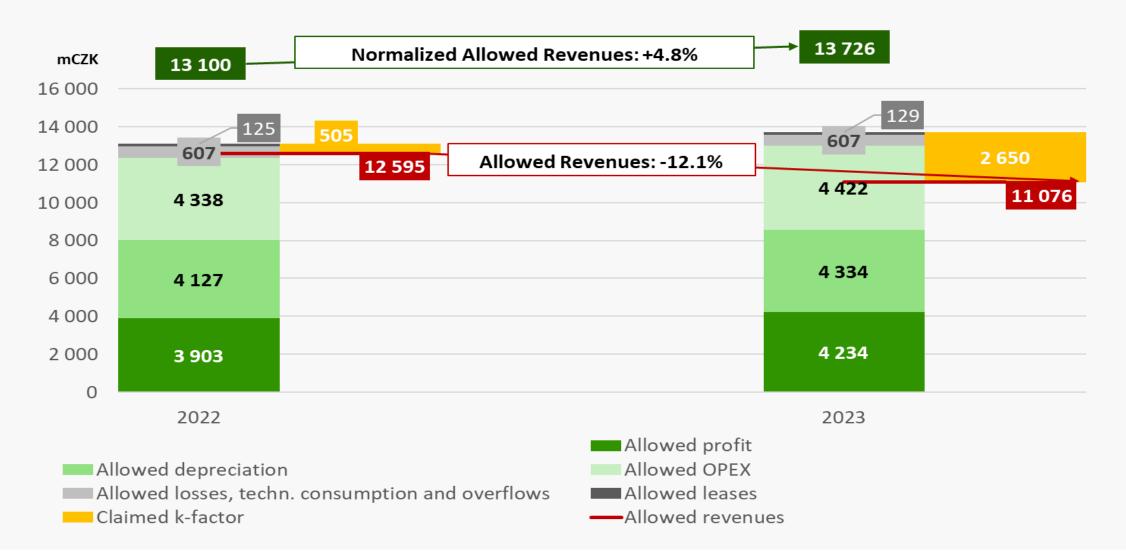




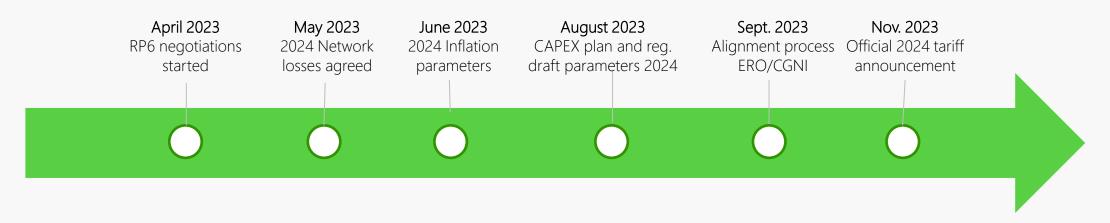


<sup>\*</sup> CZK 55.4bn including leasing liability

Outlook 2023: Allowed revenues to decline by CZK 1.5 bn due to reimbursement of historic k-factor (one-off event)



## 2 Outlook 2023



#### **RAB and NAV Reconciliation Schedule**



• **Upward reconciliation of RAB** to match the higher underlying net book value in motion until 2025, with non-binding Capex plans for period 2021-2025 and 2025-2030

- ✓ Agreement with the regulator (ERO) on coverage of network losses for 2024: cost neutral
- ✓ OPEX inflation vs. Actual cost increases neutral to wide extent
- ✓ CAPEX & D&A plan not expected to change
- Whole negative k-factor (excess of actual revenues over allowed revenues) generated in the past (CZK 2,650m) to be returned to the system in 2023. No such negative one-off impact expected in 2024.
- Expected tariff increase in absolute terms relatively high, but lower than electricity

## Agenda

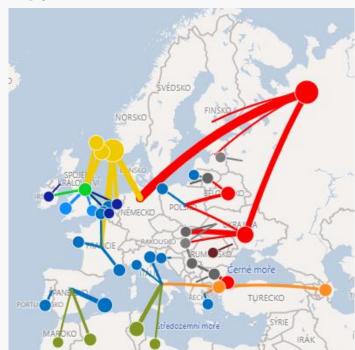
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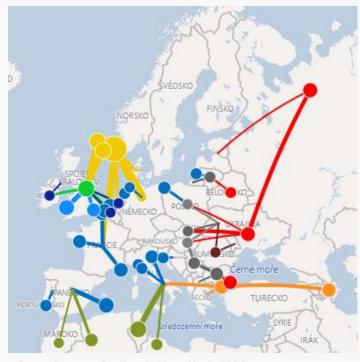
3 Supplies from Russia historically representing more than 40% of gas consumption in EU (cca 4,000 TWh/year) have been replaced almost fully by Norwegian gas and LNG imports.

### **Gas Import Routes and Sources**

Q4/2021



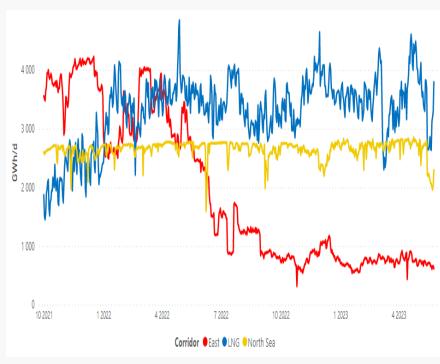
Source: European Gas Flow dashboard by ENTSOG



Source: European Gas Flow dashboard by ENTSOG

Q4/2022

**Gas Supplies to Europe** 



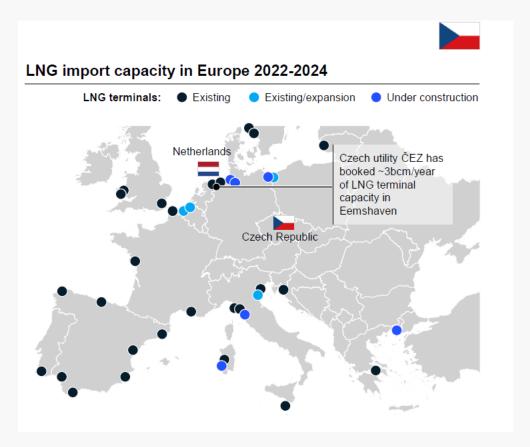
Source: European Gas Flow dashboard by ENTSOG

### 3 Czech Republic is securing a diversified gas supply and long-term access to LNG terminals.

### **Ongoing activities**

Partner	Gas	Description
Qatar	LNG	<ul> <li>Trade and technical cooperation agreement approved by the government in 2022 – LNG supply expected within the next decade</li> <li>Negotiations between ČEZ and Qatar Energy</li> <li>Czech trade foreign office opening in Doha planned</li> </ul>
Oman	LNG	<ul> <li>Oman still in search for investors for a pipeline infrastructure, a liquefaction terminal and ships for transport to Europe</li> <li>Negotiations between the CZ government and Omani LNG company on investment potential in the local deposits and pipelines</li> </ul>
Poland	LNG Piped	Renewal of the discussion between the CZ and PL government on the <b>Stork II gas pipeline</b> connecting Czech and Polish gas networks, which would enable access to Polish LNG terminals
Germany	LNG Piped	<ul> <li>Negotiations between the CZ and GER government on capacity in the Lubmin LNG terminals – total capacity is expected to increase to up to 14.2bcm/year in 2024</li> <li>Advantage through the existing infrastructure – the OPAL pipeline and transport to CZ via Gazela pipeline</li> </ul>

### LNG terminal development

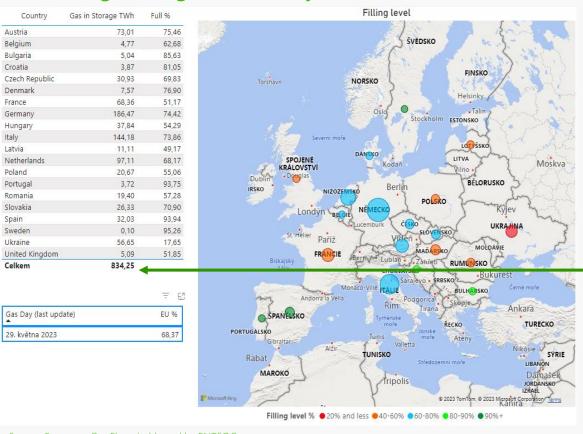


[1] ENTSOG | ENTSOG

### 3

### Gas storage filling levels in Europe already achieved 68% vs. 47% last year.

### Gas Storage Filling Level @ May 29, 2023



### Gas Storage Filling Level @ May 29, 2022

Country	Gas in Storage TWh	Full 96
Austria	30,56	32,00
Belgium	3,20	36,83
Bulgaria	1,30	22,39
Croatia	1,04	21,89
Czech Republic	22,09	61,68
Denmark	5,92	65,17
France	67,44	51,24
Germany	117,28	48,70
Hungary	20,30	29,99
Italy	95,58	49,41
Latvia	8,78	36,45
Netherlands	55,36	39,83
Poland	34,39	94,44
Portugal	3,30	92,44
Romania	10,32	31,47
Slovakia	13,99	38,81
Spain	23,32	66,16
Sweden	0,01	6,74
Ukraine	54,52	16,83
United Kingdom	9,20	94,82
Celkem	577,89	
		= 6

Gas Day (last update)

29. května 2023



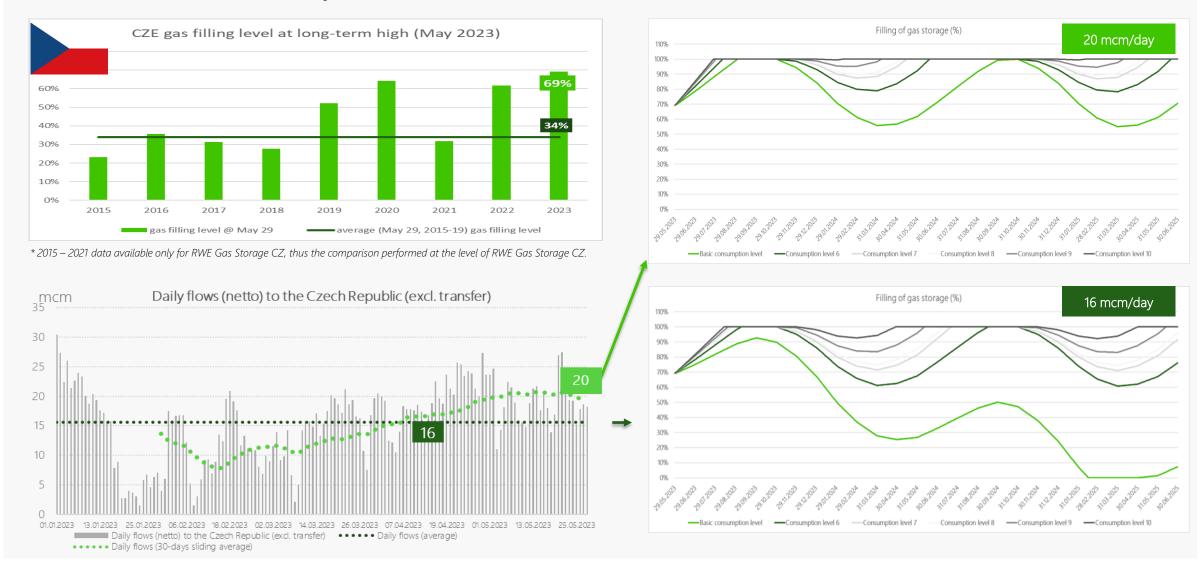
Source: European Gas Flow dashboard by ENTSOG

EU %

68,37

Source: European Gas Flow dashboard by ENTSOG

# 3 Storage filling level in CZ is the highest in the past 20 years. Gas supply is stable with positive outlook for the whole year 2023 and 2024.



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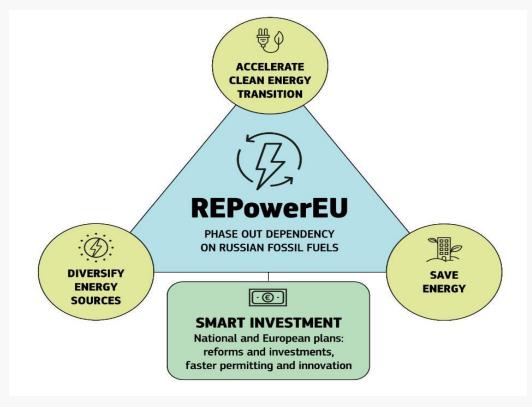




### The response to the energy crisis in 2022



REPowerEU actions proposed to phase out Russian fossil fuels go beyond plans presented in the FF55 Package





CZ government executed several measures to mitigate impact of possible gas interruption

- Strategic reserves controlled by the CZ government
- Financial motivation for storage users to inject gas into gas storage in CZ in keep it under defined conditions
  - Storage to be filled at least by 80% by November 1
- Use it or lose it ("UIOLI") implemented in the Energy Act
- Caps on energy prices
- <u>State financial support to TSO/DSOs implemented in the Energy Act in case of gas interruption</u>



### Regulatory/policy topics 2023: Energy policy documents to dominate the agenda in CZ

National Energy and Climate Plan (update) Natural Gas / Bio-methane / Hydrogen to contribute to climate-energy Q3 targets Natural Gas as a transition fuel, position of Bio-methane / Hydrogen in Energy policy State Energy Policy (update) Q4 the energy mix documents Hydrogen Strategy (update) Hydrogen Q4 National Action Plan for Clean Mobility (update) Natural Gas / Bio-methane / Hydrogen in transport – i.e LNG Q2 Fit For 55 (EU) Energy efficiency, EU ETS II, conditions for Hydrogen to contribute to Q3 climate energy targets Legislation Gas Package (EU) Unbundling of Hydrogen network operators Q2 Energy Act (CZ) Hydrogen Q2 RP6 (preparatory work) Regulatory formula, conditions for Hydrogen related investments 01-4 Other topics Hydrogen Pilot Projects Hydrogen O1-4



### Regulatory/policy topics 2023: FF55 Package is being finalized in EU

EU gas market: Unbundling rules and governance

GHG emissions reduction: ETS 2

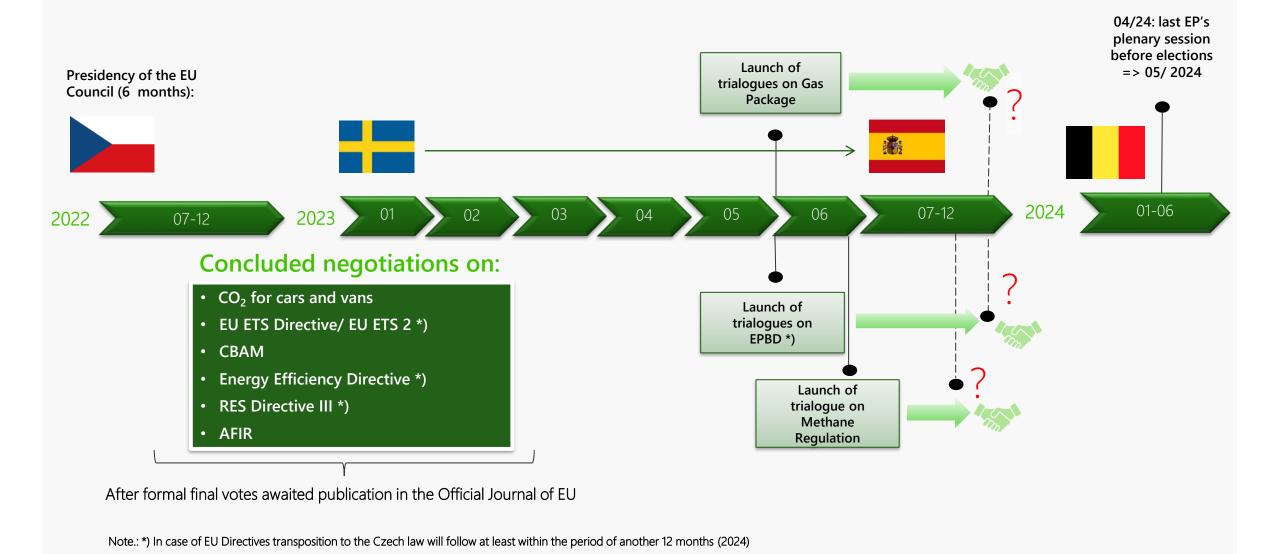
Green hydrogen definition

Methane emissions Regulation

ZEB definition in EPBD

- Vertical unbundling (for vertically integrated DSOs only): in the proposed form may lead to ownership unbundling for DSOs
- · Horizontal unbundling: at least in terms of legal form
- EU DSO association: Inclusion of gas DSOs into the association established already for electricity DSOs
- ETS 2: Carbon "tax" in road transport and individual heating (2027)
- Definition of green hydrogen (Delegated act to RED II), expected entry into force in July 2023
  - Requirements for production of green H2 only from RES sources
  - Unfavorable and uncompetitive conditions for CZ producers
- LDAR: Increased frequency of leakage surveys regardless of the technical condition of the networks(for vertically integrated
- Repair requirements: leaks to be repaired regardless of their size
- Passing on costs to end users: increase in the regulated component of the gas price
- Standard for new private buildings as of 2030, for public ones already since 2027
  - 100 % RES energy produced on-site, nearby or supplied by energy community;
  - Residual energy supplied also by RES energy from grids or as waste heat from DHC
- Need to transform all buildings by 2050 to ZEB standard

## Timeline of negotiations of the FF 55 and Gas Packages



4 Regulatory framework proved its resilience in extraordinary market conditions. RP5 determinations provide a predictable and supportive regulatory regime with a comprehensive CAPEX plan and reasonable operating performance incentives.

#### **RAB** Reconciliation and Capex

- Upward reconciliation of RAB to match the higher underlying net book value in motion until 2025
- RAB reconciliation ensures smooth tariff development in the upcoming years
- Non-binding Capex plans for period 2021-2025 and 2025-2030 submitted to regulator by all DSOs

#### **RAB and NAV Reconciliation Schedule**



Source: Company Information, ERO.

Note: (1) Service-Level-Agreement (SLA) margins refer to the margin on services provided from GasNet Služby to GasNet.

#### Regulatory WACC

RP5 WACC was set to 6.43% (pre-tax)

#### **Opex**

- Opex under- / outperformance sharing at the level of GasNet set at 50% / 50%
- Opex level based on the average of 2017-2019 actuals
- Service Level Agreement (SLA) margins<sup>(1)</sup> at GasNet Služby retained

#### **Inflation**

- Escalation index comprising of wage index and services index is used for valorization of allowed OPEX
- Correction factors are escalated using Producer Price index (PPI)
- All indexes are being published by Czech statistical office.

#### Risks of regulatory changes before 2026

- Risk of regulatory changes affecting main principles of RP6 seems to be rather limited.
- Some marginal changes (i.e conditions to procure network losses) have been initiated by DSOs

4

### ERO has formally launched a project to prepare regulatory rules for RP6\*



<sup>\*</sup> The organization of the project is similar as the one regarding RP5.

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## 5 Our ESG strategy is built on 4 pillars and is based on corporate values

#### **GasNet ESG Strategy**

**PILLARS** 



We believe in environmental sustainability and the future of gas



We embody safety standards and health protection



We care about our people and the communities around us



We conduct business in a responsible and considerate way

ESG

## E

**Environmental** 



Social



Social



Governance

**FOCUS AREAS** 

- ► Methane emissions
- ► Energy consumption
- Air pollution, waste, biodiversity
- ► Future of Gas (green gas transition)

- ► Employee & contractor safety
- Process safety
- ► Public safety & network reliability
- ► Employee health
- ► Safety culture

- Employee and community development
- Support for schools and education
- ► Diversity, equity & inclusion
- ► Employee feedback

- ► Ethical conduct & internal documentation
- ► Risk management
- ► Cybersecurity & crisis mgt.
- ► Business model resilience
- ► Sustainable supply chain

## Updated ESG Rating from October 2022 positioned GasNet among leading companies with low ESG risk

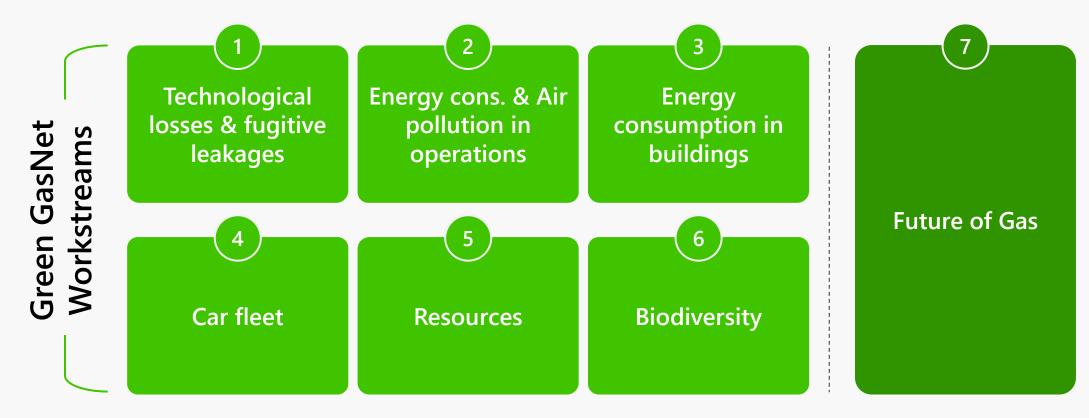


#### KEY RESULTS IN 2022

- 10% less Scope 1+2 emissions vs. 2021
- 13% less energy consumed vs. 2021
- 15% less NOxemissions vs. 2021
- 45% waste recycling rate in 2022

- ~1.1 LTIF vs. target of 1.6
- New Safety Management System
- creation to coordinate all safety activities
- Around 500 attendees of health days
- ~68,000h spent on employee's
- development p.a.
- ~900 attendees of education webinars in 2021
- Update of the Code of Conduct
- Completion of the catalog of risks
- Modernization of the central security
- access and surveillance system
- Code of Conduct for suppliers

Our environmental sustainability journey is managed via 2 major programs – Green GasNet and Future of Gas



#### **Key achievements**

- Scope 1+2 emissions: less than 184ktCO2e, leading to 10% decrease compared to 2021
- Energy consumption: 88GWh almost 13% less than in 2021
- CO emissions: remained at the same level as 2021 of 2.8t due to a new CHP unit
- NOx emissions: 2.36t, resulting in approximately 15% decrease compared to 2021
- Waste recycling rate: 45% of all waste was recycled, 9% increase from 2021

## **5** Committed Net Zero Target Overview



Target: -% 206 435 tCO<sub>2</sub>e

Scope 1 + 2 Emissions

**Target 2025** – keep emissions at the same level as 2020 baseline

#### Abatement measures cover 5 emission sources:

- ► Own technological gas losses
- ► Fugitive gas leakages
- ► Energy consumption in operations
- ► Energy consumption in buildings
- ► Car fleet fuel consumption

Incremental<sup>2</sup> CAPEX (kEUR): **0**Incremental Average annual OPEX (kEUR): **0** 

Target: 15%<sup>1</sup> 175 470 tCO<sub>2</sub>e

Scope 1 + 2 Emissions

**Target 2030 –** reduction of 15% compared to 2020 baseline

#### Target depends on the following measures:

- Accelerated renewal rate of medium-pressure pipeline
- ► Satellite monitoring for leakage detection
- ▶ Installation of screw expanders and CHP units

Incremental CAPEX (kEUR): 0
Incremental OPEX (kEUR): 27 860
(64 415)<sup>3</sup>

Target: 100%<sup>1</sup> 0 tCO<sub>2</sub>e

Scope 1, 2 & 3 Emissions

Target 2040 – commitment to be Net Zero by 2040

Net Zero includes additional operational measures beyond the 15% reduction in 2030 with further abatements through the transition to green gases, with 2 major elements to be solved:

- ► Market availability of green gases in CZ
- ► Economic viability (cost) of green gases in CZ

Incremental CAPEX (kEUR): *TBD* 

Incremental Average annual OPEX (kEUR): TBD

## Agenda

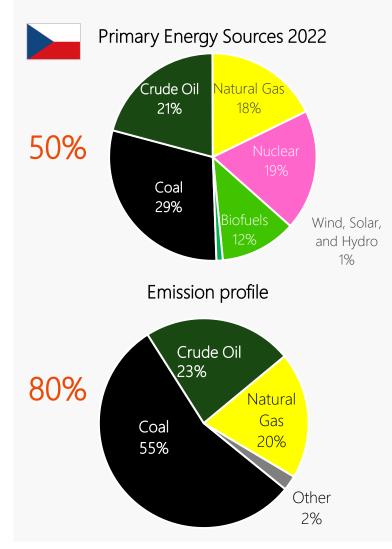
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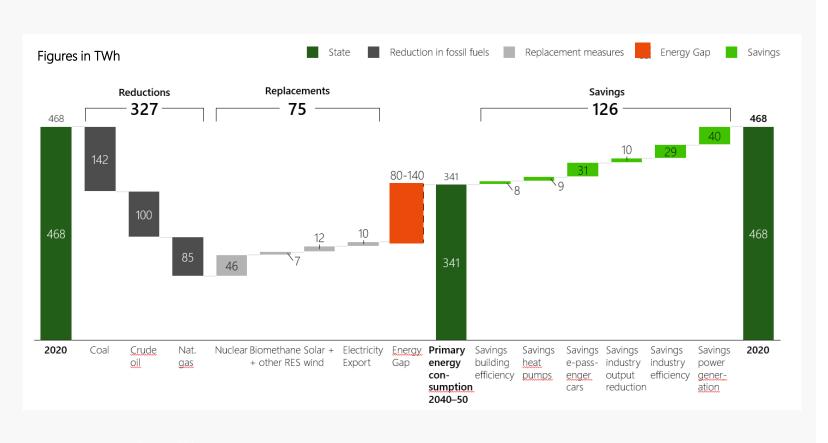
6 Characteristics of the Czech Republic's energy system and constraints of alternative technologies likely leading to gaseous fuels playing a significant role across all decarbonization scenarios

While various technologies are expected to be required for decarbonization, gaseous fuels (clean hydrogen, biomethane or residual gas) in large part delivered via GasNet's DSO network are expected to play a significant role to decarbonize the Czech Republic due to:

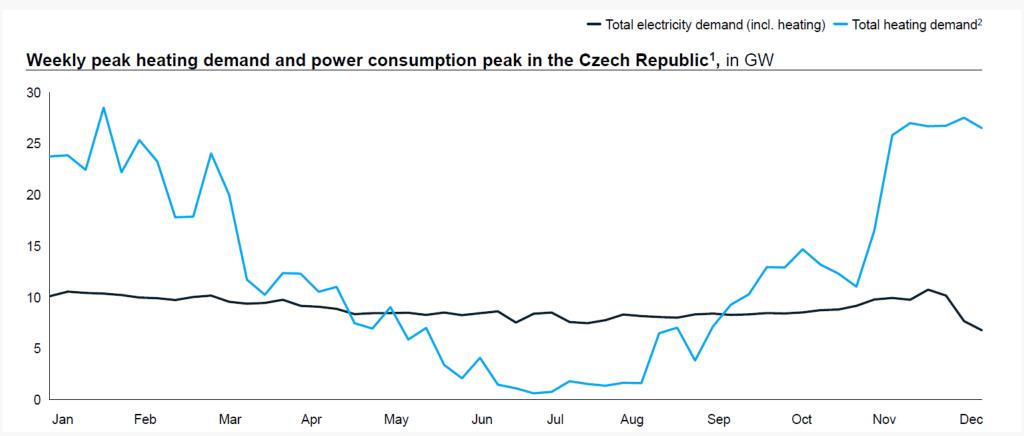
- Higher suitability of gaseous fuels to cover winter peak heating demand compared to electric power, which requires real time
  matching of demand and supply and hence very high installed capacities of backup generation / power storage with
  otherwise low utilization
- New nuclear reactors (tender for part of the capacity currently ongoing) or small modular reactors not expected to deliver new nuclear capacity before 2036 also, after 2036 nuclear will only have limited ability to cover demand spikes (e.g., heating demand peaks on cold winter days)
- The country's comparatively unfavorable conditions for renewables with no offshore wind and relatively low onshore wind and solar capacity factors of 0.2 and 0.18, respectively

6 The replacement of all fossil energy sources by 2050 will result in considerable gaps of up to one-third of future energy demand.





# Given the climate in CZ, the energy system needs to be able to handle heating demand peaks of up to 28GW on cold winter days



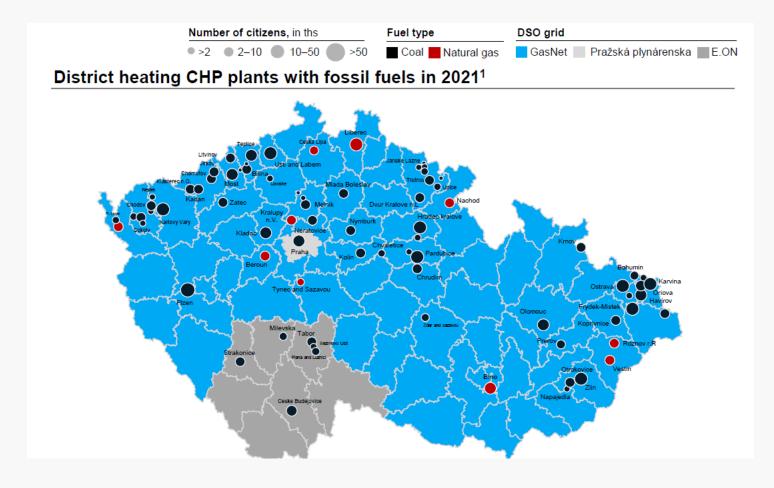
- 1. Calculated as maximum hourly peak of the week for heating demand and power consumption
- 2. Coldest winter in 20-year period in 2010; including individual residential, commercial, and district heating

# In the short to mid term, natural gas is expected to play a major role as transition fuel; GasNet's grid can take on a significant role when replacing other fossil fuels

As a result, natural gas consumption is expected to remain high at approx. 100 TWh in 2030 (versus 99TWh in 2021) despite efficiency gains across all sectors. This is driven by:

- Residential: Individual gas heating is expected to remain a key pillar of heat supply with heat pumps primarily deployed in new dwellings or to replace higher emitting fuels (projected decrease of less than 0.2m connection points and around 5TWh natural gas consumption driven by efficiency gains due to refurbishment by 2030)
- Industry: Coal based heating processes are expected to be converted to run on natural gas and later shift to hydrogen, esp. in the steel and chemical sectors (volumes of around 30TWh in 2030 despite efficiency gains)
- Transport: Lower carbon intensive fuels like BioLNG/CNG are expected to partly decarbonize heavy duty transport (around 2TWh vs. 1TWh gaseous fuel consumption in 2021
- Power: In the short to medium term the level of gaseous fuels is expected to remain constant (around 13TWh of natural gas in 2030) the EU taxonomy recognizes new natural gas power plants built before 2030 as 'transitional energy source', if they are used to replace more emissions heavy fossil fuel s such as oil and coal
- **District heating**: Coal fired CHPs (accounting for approx. 60% of residential heat delivered in district heating 2021) are expected to be replaced by natural gas CHPs by 2033 (increase of over 15 TWh natural gas consumption vs. 2021)

## 6 Extensive district heating network run on CHPs remains essential for heating in the future

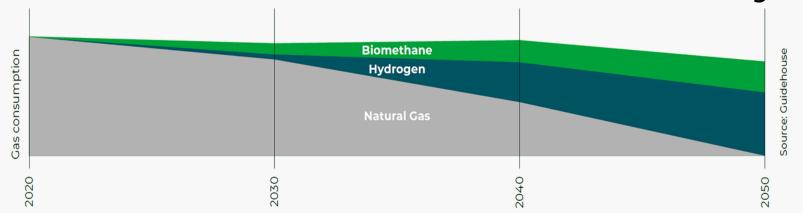


#### Key takeaways

Today's widespread district heating network based on CHPs remains major component of future heating strategy of Czech Republic

Connection of new gas fueled CHP plants to DSO or TSO network is subject to economic assessment (esp. distance to current pipelines). Most gas fired CHPs (<1TWh) were connected to the DSO grid.

6 While ensuring natural gas supply in the short to medium term, GasNet is progressing to i ) increase share of biomethane, and (ii) to prepare the network to deliver hydrogen to industrial, commercial, and residential consumers in the long run.

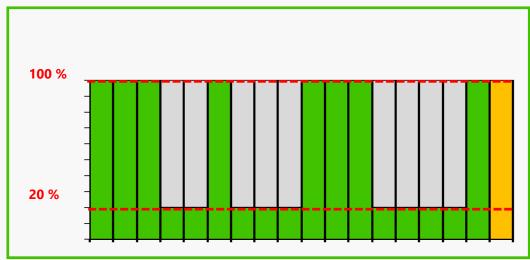


- Today, our network is already able to carry up to 20 % of hydrogen blends
- GasNet's asset management strategy includes an upgrade of the network to prepare the grid for 100% hydrogen in the next 10 to 15 years to come

Pan-European Hydrogen Backbone addresses hydrogen transport in existing infrastructure



Hydrogen readiness of individual parts of our distribution network



6

Analyses show that the potential for hydrogen in the Czech Republic may reach 50-60 TWh per year between 2040 and 2050, which is 50-60% of the expected energy shortage (80-140 TWh).

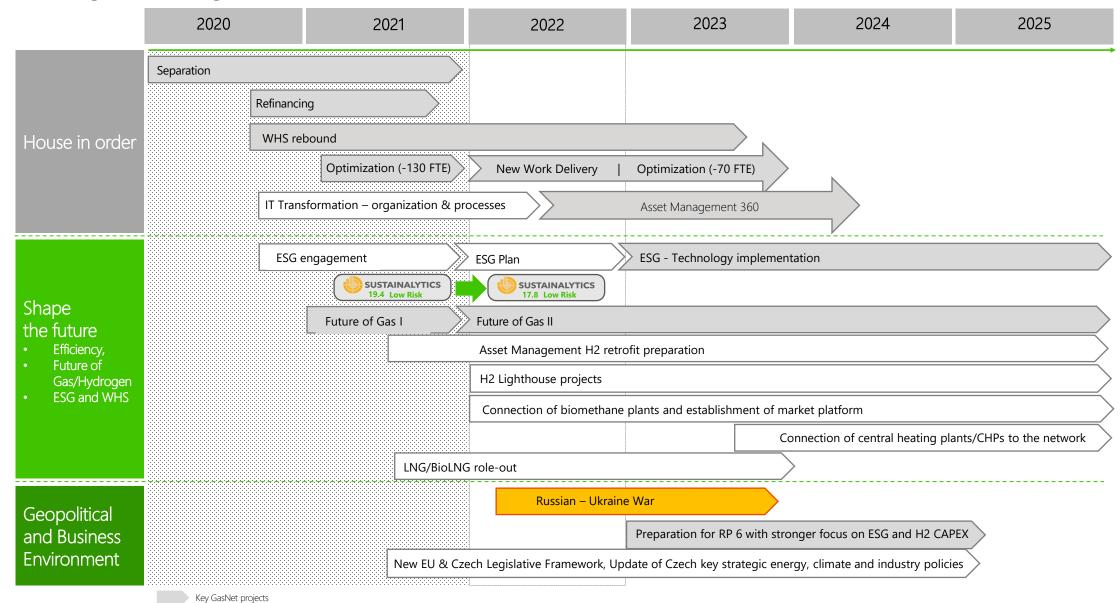
Consumption segment	2050 TWh	2050 ths. tons
Industry	20	595
Transport	10	307
Heat and power production	11	335
Households	12	372
Services	8	226
Hydrogen Consumption total	61	1 835

Source: ENTSO-G a ENTSO-E TYNDP 2022, Global Ambition Scenario

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### 7 Strategic framing 2022 - 25



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## OGH's core business is the distribution of natural gas throughout the Czech Republic, a regulated business with 81% country coverage.

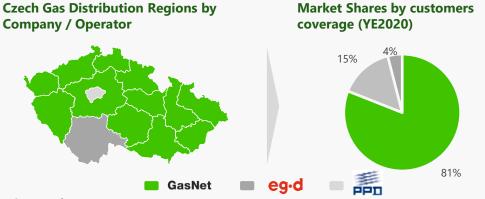
#### **CGH Snapshot**

- Largest distribution operation (DSO) in the country by both grid length and number of connections
- First fully unbundled utility in the Czech Republic after the successful separation from innogy in 2020
- Standard European RAB-based regulation with 5-year regulatory periods (RP) with strong track-record of tariff stability. The 5th RP began in 2021 and ends in 2025
- Strategically positioned to support the transition of the Czech Heating sector from lignite to gas
- Received a Sustainalytics rating of 19.4 "Low Risk", ranked 3<sup>rd</sup> out of 83 Gas Utilities
- The Czech Republic is AA-rated and the Company has a Senior Unsecured Rating: S&P BBB+ (stable) / Fitch BBB (stable). Senior Unsecured Notes issued by the Company are notched up to BBB+ by Fitch.

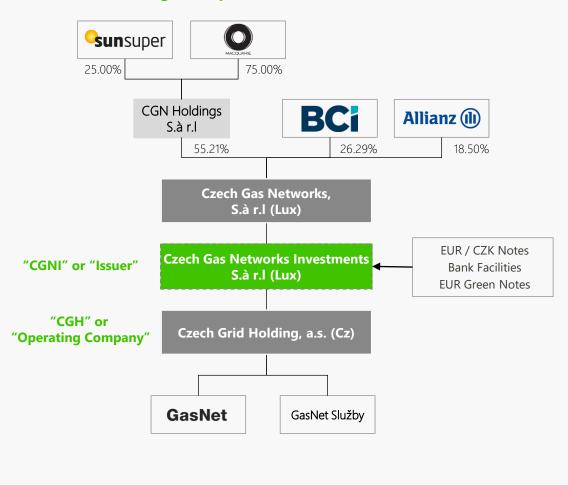
65,000km of gas pipelines **c. 2.3m** off-take points

c. 70TWh / year distributed gas

#### **Geographic Footprint & Market Presence**



#### **Current Shareholding & Corporate Structure**



Source: Company Information

The Czech regulation for Gas Distribution is stable, attractive and predictable, in full alignment and compliance with EU directives and international practices.

#### **ERO's Key Principles & Objectives**

- Stability and sustainability of tariffs
- Predictability of regulation
- Interest of all stakeholders guaranteed
- Objective and transparent decision making
- Consistency with legislation

#### Allowed Revenue Breakdown



- RP5 WACC was set to 6.43% (pre-tax)
- Opex level based on the average of 2017-2019 actuals, with under- / outperformance sharing at the level of GasNet set at 50% / 50%

#### **Key Elements of the Czech Gas Distribution Regulation**

- Standard RAB-based revenue-cap model
- Current grid infrastructure regulation in place since 2002
- Currently in the 5th RP, which started in 2021 and ends in 2025
- Regulator traditionally opted for stable tariffs across regulatory periods
- "This framework provides stability, transparency, and predictability to operators' cash flows." (S&P, 2020)

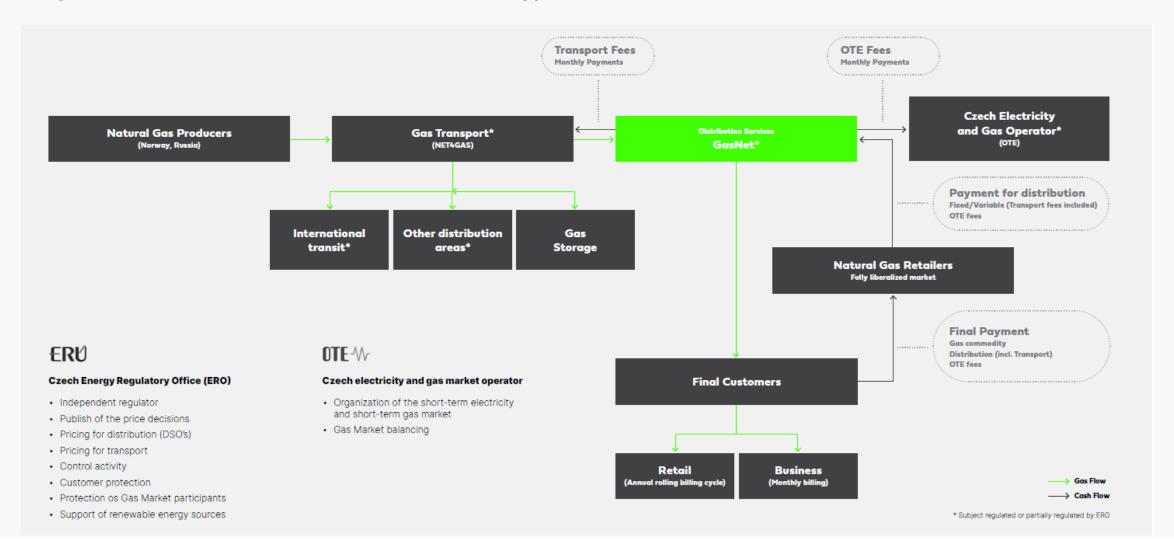
#### **RAB and NAV Reconciliation Schedule**



• Upward reconciliation of RAB to match the higher underlying net book value in motion until 2025, with non-binding Capex plans for period 2021-2025 and 2025-2030

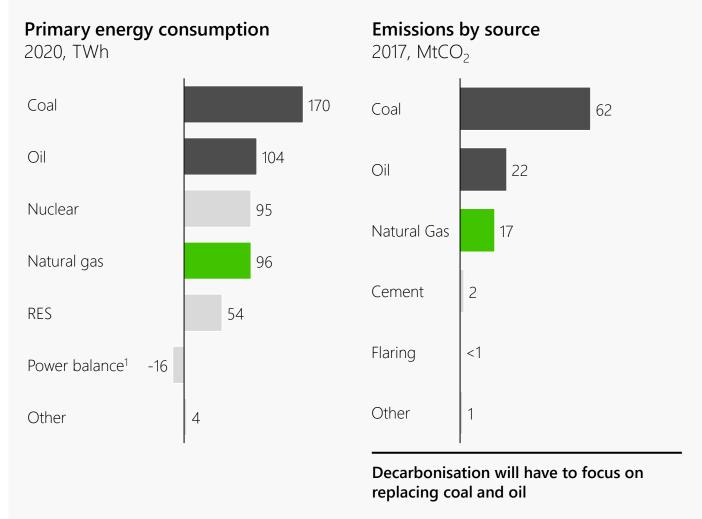
Source: Company Information, ERO.

GasNet is the regulated owner & operator of the distribution network, with 2.3 million end connections. The transformation process towards a more sustainable energy sector requires significant efforts across the whole energy sector.



### 9

### Czech energy consumption is dominated by fossil fuels



Selected key aspects of the Czech energy landscape Self-sufficient **Nuclear friendly** power generation C Low RES potential **Cold winters** Importing fuels

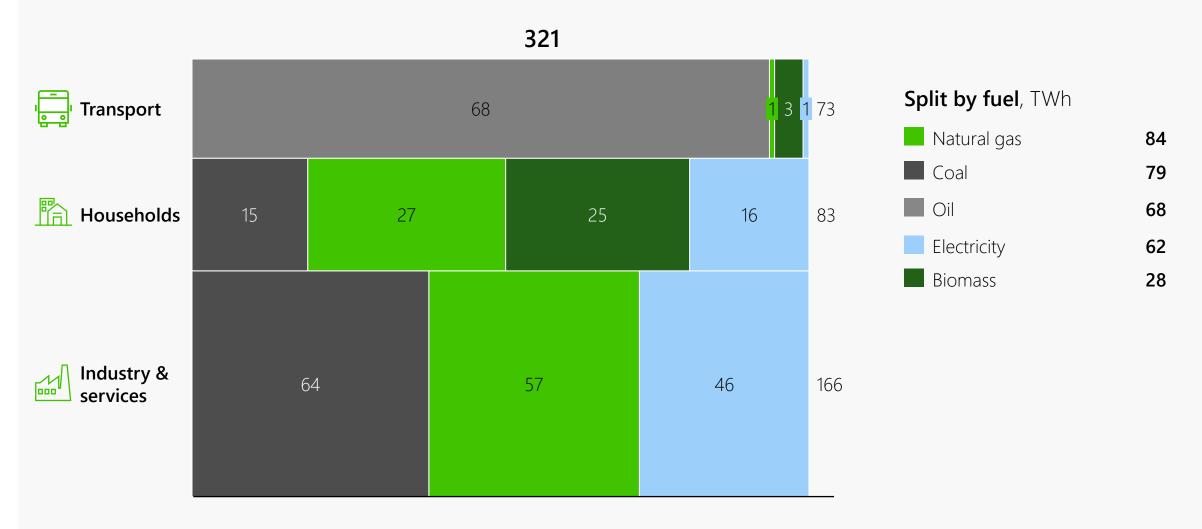
Source: McKinsey DPO and MPM models, CO<sub>2</sub>: ourworldindata.org, Statni energeticka koncepce CR

<sup>1.</sup> Electric power is not a primary energy source. Taking the perspective of the Czech Republic, negative balance reflects net exports.

## 9

### Coal is used mainly in household heating and industry

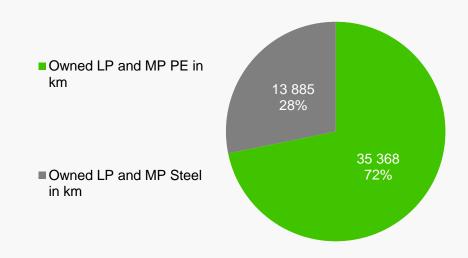
Final energy consumption, 2019, TWh



Source: ERU, Czech Statistical Office, McKinsey analysis

<u>Material wise</u>, we are ready to distribute a 20% blend of hydrogen with NG. Specifically, pipeline components are prepared to a large extent for 100% H2 distribution

#### **Current Steel and PE Pipeline Breakdown**



- PE mains are crucial for future distribution of blended gases and hydrogen
- CGNI is well-positioned with its current pipeline material mix
  - A significant proportion of ~72% of current, owned local network length are already in PE
  - 60% of municipalities have already **a PE pipeline share higher** than 99%
- By replacing legacy materials (steel) with modern materials (PE), the Company also expects to drive **emission** and **cost savings**

Source: GasNet; Marcogaz (EU); NREL (USA); GRTGaz (FR); HyDeploy (UK); Hy4Heat (UK); internal analysis

2021-2050: GasNet to enter a deep transformation process by supporting replacement of coal with natural gas within this decade; while preparing in parallel for sustainable hydrogen distribution after 2030.

