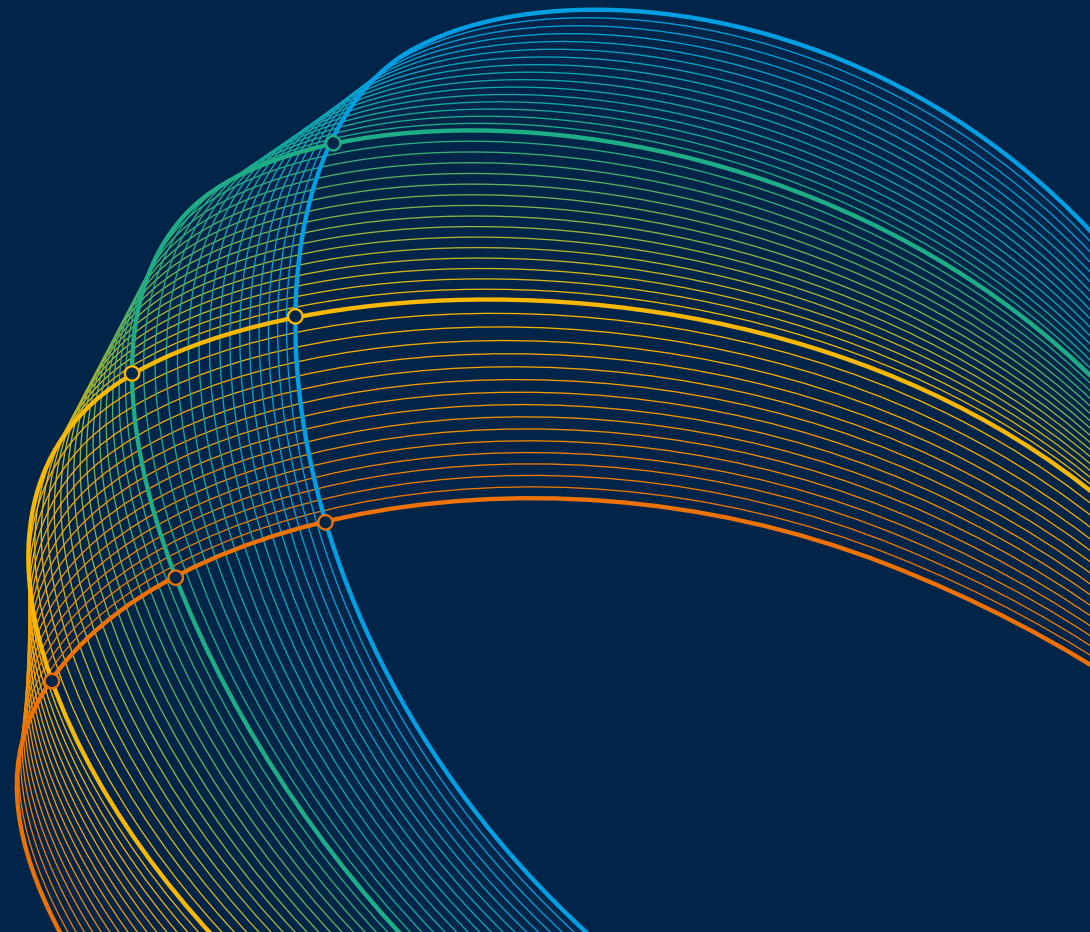




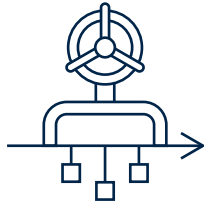
Ukrainian Natural Gas Distribution Network Renovation

High level introduction

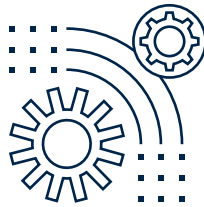
RGC UKRAINE
Ukrainian Infrastructure Forum
London, UK
December 2, 2022



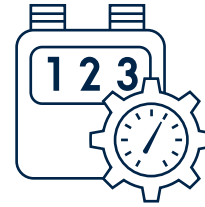
What we do



Gas Distribution



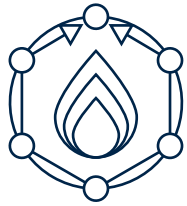
RGC Production



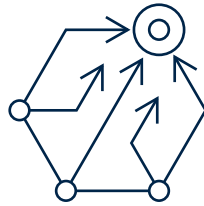
RGC Metering



RDI Hydrogen Project



RDI Redesign



RGC Digital and Software development

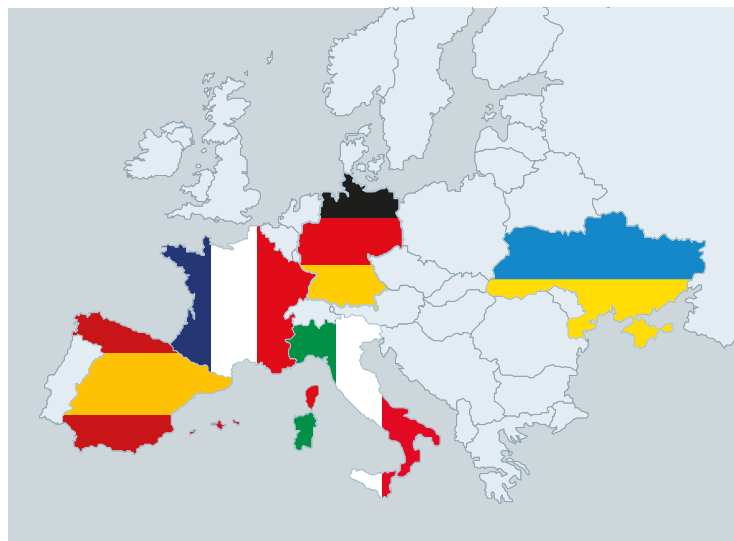







RGC Logistics Centers



RGC Education space









RGC Ukraine



	 Germany	 Italy	 France	 Spain	 Ukraine
Gas consumption, billion m ³ per year	90	72	45	32	32
Number of gas customers, million	14.6	22.5	12.1	7,4	13.1
Length of GTS, thousand km	62.5	34.4	37.3	13	38.8
Length of gas distribution networks, thousand km	371	249	203	64	347

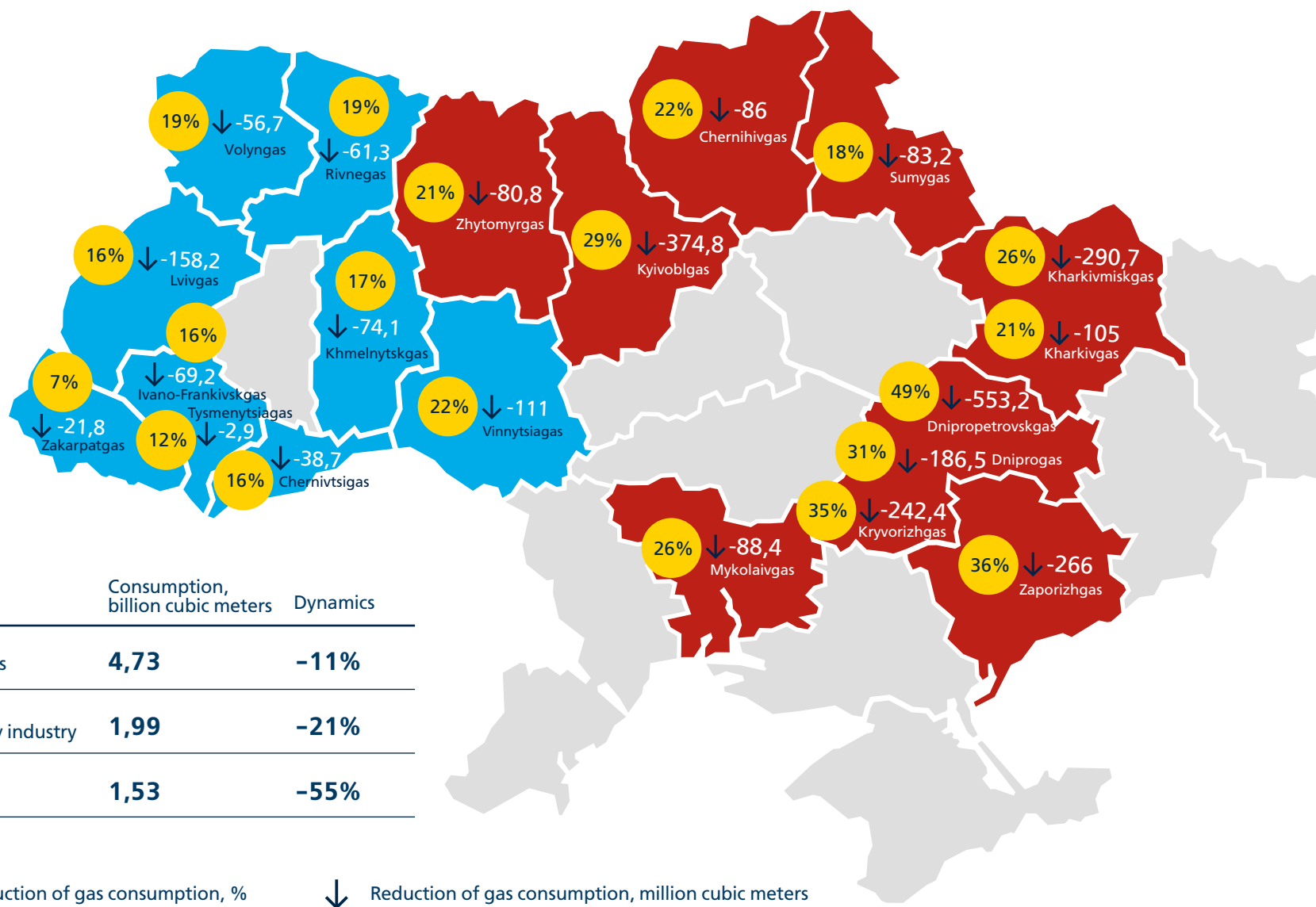


	UKRAINE	RGC
DSOs	44	20
Gas distribution	24 bcm	15 bcm
Customers	13.1 mln	8.1 mln

	UKRAINE	RGC	
 DSO pipeline length	350 000 km	250 000 km	
 City gate distribution pressure reduction stations	63 000 pcs	47 000 pcs	
 Cathodic protection stations	28 000 pcs	19 000 pcs	
 Residential gas pressure regulators	1.4 mln	1.0 mln	

The impact of military actions on gas consumption

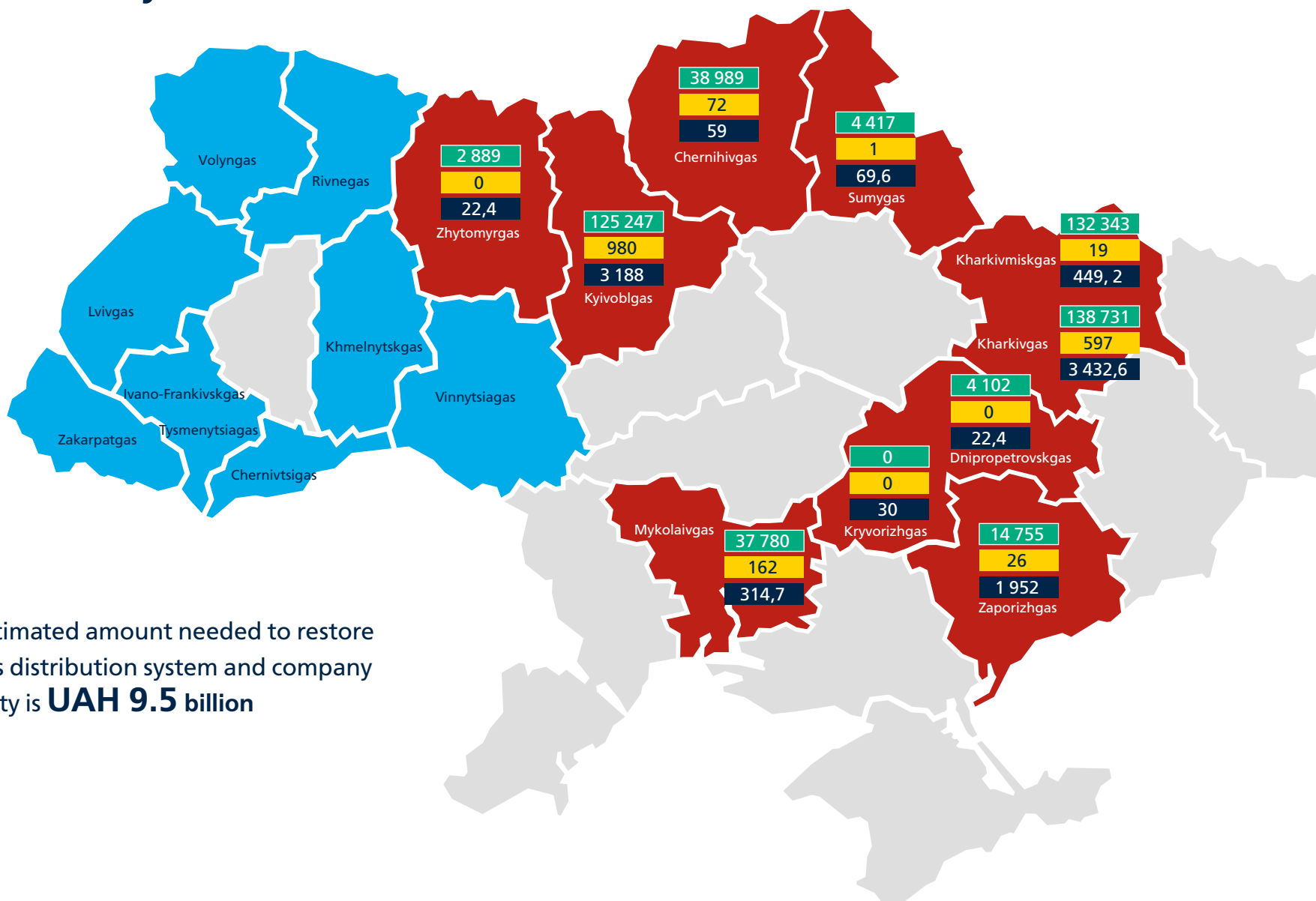
Volumes of gas consumption for 10 months of 2022 dropped by **2.9 billion cubic meters** and amounted to **8.25 billion cubic meters**




	Consumption, billion cubic meters	Dynamics
Households	4,73	-11%
Fuel and energy industry	1,99	-21%
Production	1,53	-55%


● Reduction of gas consumption, % ↓ Reduction of gas consumption, million cubic meters

Restoration of networks in the deoccupied and military actions areas



The estimated amount needed to restore the gas distribution system and company property is **UAH 9.5 billion**

 **503 thousand** consumers connected

 **1941** gas distribution points restored

 The amount of losses from destruction is **UAH 9.5 billion**, excluding VAT

Support of the Armed Forces of Ukraine and humanitarian aid



UAH 86.5 million

Restoration of the destroyed infrastructure, humanitarian aid

UAH 128.4 million

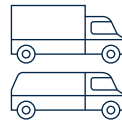
Military equipment, automobiles, optics, military ammunition, food and medicines, potbelly stoves, fortifications for the Armed Forces and Territorial Defense



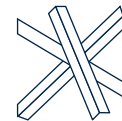
15
humanitarian hubs



35
equipped bomb shelters



211
vehicles



18 155
anti-tank hedgehogs
and spikes



1 000
potbelly stoves



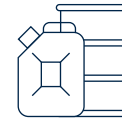
4 tons
of medicines



230 tons
of personal hygiene
products and food



9 500 pieces
of ammunition

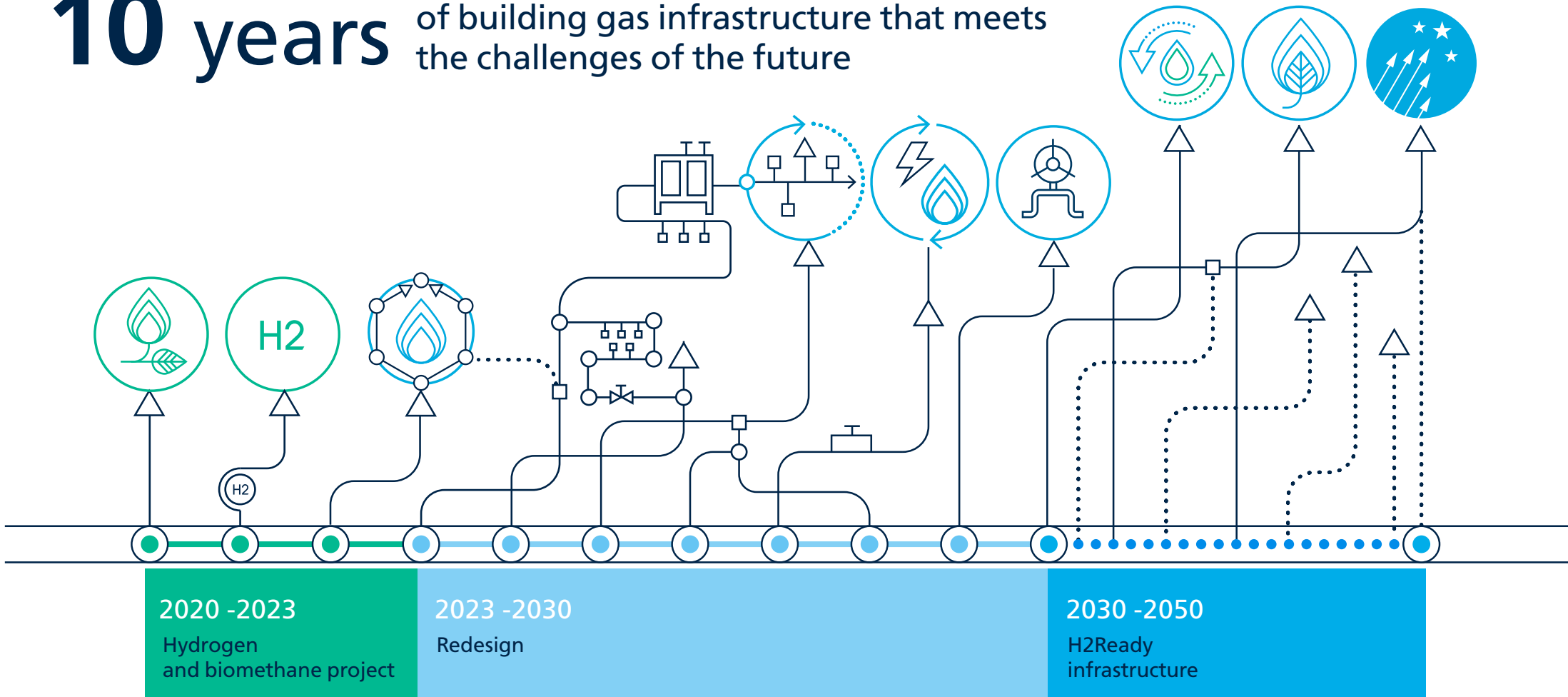


33 000 liters
of fuel



40 pieces
of military equipment
(drones, etc.)

10 years of building gas infrastructure that meets the challenges of the future



**DSO need for investmens: next 30 years
CAPEX models (cost with VAT), EUR billion**

	Redesign for CH4	Redesign for CH4 + H2 Upgrade	Additional CAPEX for H2	%
RGC, 20 DSO	11.3	14.3	3	26

- We have a clear strategy, cost calculation, and timeline for renovating the Ukrainian gas distribution network.

- Ukraine will not have sufficient funds for this renovation – the participation of international institutional and private investors will be necessary.

- To encourage foreign investors to invest in state and private companies, Ukraine must first:

 - Guarantee the long-term functioning of the rule of law based on international standards;

 - Establish clear rules for foreign investments in infrastructure renovation;

 - Implement applicable standard models for the return of long-term loans;

 - Adopt the possibility of creating independent funds for foreign investments governed by external managers and auditors.
