

COMPULSORY GAS RESERVES IN POLAND

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GAS MARKET - POLAND

- Annual gas consumption – 17 BCM,
- Daily maximum gas consumption – 82 MMCMD,
- Daily minimum gas consumption – 25 MMCMD,
- Indigenous gas production – 4 BCM,
- Transmission system (11059 km, 983 exit points, 67 entry points, annual vol. of transmitted gas 19,7 BCM),
- UGS WV – 3 BCM.

STORAGE FACILITIES IN POLAND



Working volume: 2985 MMCM / 33,2 TWh

Injection rate: 27,23 MMCMD/ 303,5 GWh/d

Withdrawal rate: 48,76 MMCMD / 542,9 GWh/d

Regulated access

STORAGE FACILITIES IN POLAND 2018/19

GROUP OF STORAGE FACILITIES	STORAGE FACILITY	Working volume		Injection rate		Withdrawal rate	
		MMCM	GWh	MMCMD	GWh/d	MMCMD	GWh/d
Kawerna	CUGS Mogilno	589,85	6 570,90	9,60	106,9	18,00	200,5
	CUGS Kosakowo	145,5	1 622,30	2,40	26,8	9,60	107,0
Sanok	UGS Husów	500	5 625,00	4,15	46,7	5,76	64,6
	UGS Strachocina	360	4 050,00	2,64	29,7	3,36	37,9
	UGS Swarzędów	90	1 008,00	1,00	11,2	1,00	11,2
	UGS Brzeźnica	100	1 125,00	1,44	16,2	1,44	16,1
-----	UGS Wierzchowice	1 200,00	13 200,00	6,00	66,0	9,60	105,6
TOTAL		2 985,35	33 201,20	27,23	303,5	48,76	542,9

WACC ON STORAGE ACTIVITY

- Minimum WACC – 6% (Energy Law),
- WACC calculated according rules published by ERO – 6,18%.

UNDERGROUND GAS STORAGE ACTIVITY

GEOLOGICAL & MINING LAW:

- Gas storage in underground formations concession,
- Mining usufruct agreement,
- Geological information,
- Controlled by Mining Authorities.

ENERGY LAW:

- Storage licence,
- Regulated access,
- Tariffs approved by ERO,
- Controlled by ERO.

COMPULSORY NATURAL GAS RESERVES

the Act of 16 February 2007 on the compulsory reserves of crude oil, petroleum products and natural gas and on the operating procedures applicable in emergencies involving state fuel security or oil market disturbances (consolidated text in Journal of Laws of 2018, item 1323 as amended)

GAS STORAGE OBLIGATION

WHO?

- End users importing natural gas,
- Traders importing natural gas,
- No exceptions.

WHEN?

From 1st Oct. till 30th Sept.

GAS STORAGE OBLIGATION

WHERE?

- Storage facilities in Poland,
- Storage facilities in other EU states,
- Storage facilities in EFTA members.

COMPULSORY GAS RESRVES SPECIFICATION

- ***Volume*** - 30 days of average gas import,
- ***Availability*** - withdrawal within not more than 40 days,
- ***Injection after withdrawal*** - within 4 months (not more than 8 months)

COMPULSORY GAS RESERVES – STOCK TICKET CONTRACT FORMULA

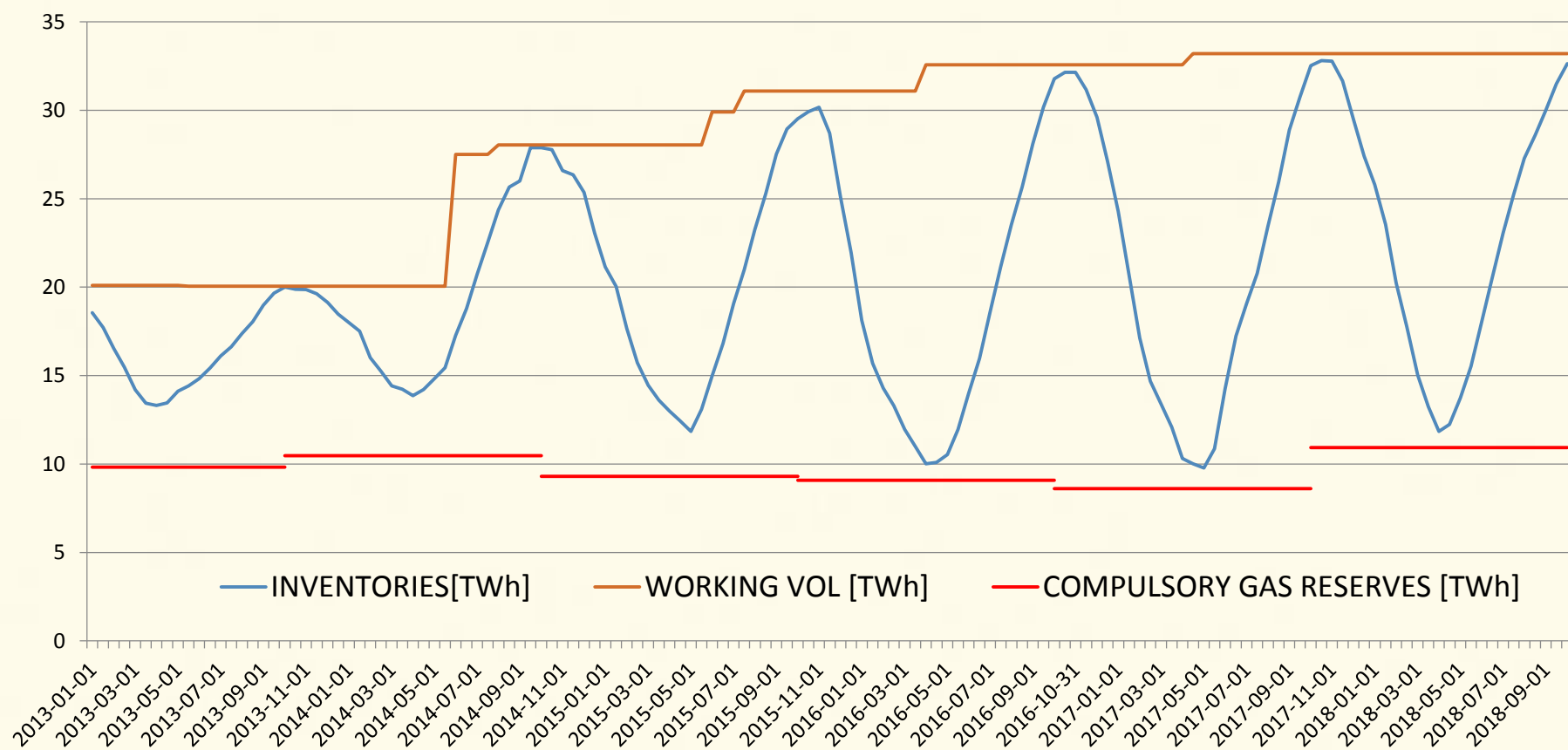
- A company importing natural gas may contract compulsory gas reserves service (ticketing service);
- Another trader (upon ERO trading licence) may offer ticketing services;
 - compulsory gas reserves are maintained in a **storage facility** in Poland, EU or EFTA,
 - the compulsory gas withdrawal ≤ 40 days,
 - the contractual terms (contract and pricing) on its web,
 - the client is entitle to withdraw gas;
- A client is responsible for the compulsory gas;
- ERO in ex ante mode approves stock ticket service agreements.

COMPULSORY GAS RESERVES WITHDRAWAL

- Minister responsible for energy may release the decision on compulsory gas reserves withdrawal;
- TSO upon the minister's decision withdraws compulsory gas reserves.

PERIOD	COMPULSORY GAS RESERVES MMCM
2008/2009	297
2009/2010	413
2010/2011	530
2011/2012	556
2012/2013	884
2013/2014	942
2014/2015	836
2015/2016	817
2016/2017	774
2017/2018	970

STORAGE INVENTORIES – POLAND



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