



Warsaw Stock Exchange Group Investor Presentation

September 2020

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Key milestones





#GPW2022

The updated development strategy of the GPW Group is based on building shareholder value through the development of existing business lines and new segments at sustained profitability levels combined with risk management discipline. The strategy update focuses on four areas of development of the GPW Group:

- core business development
- development through diversification and new business areas
- > development of new technological solutions
- sustained attractive dividend policy

GPW share price





Global Peers





	P/E 2020	P/E 2021	EV/EBITDA 2020	EV/EBITDA 2021	Dividend Yield 2021*	Market Cap (USD mn)
Median (24 global peers)	23.2	23.0	15.1	14.9	2.7%	-
GPW	15.8	16.1	8.5	9.1	5.4%	450
Discount (%)	-31.9%	-30.0%	-43.7%	-38.9%	+2.7 p.p.	-

Source: Bloomberg

India

Social Responsibility during COVID-19

- In March, GPW's Management Board decided to grant a donation of **PLN 1 million** for the acquisition of **SARS-CoV-2 testing equipment** by the Sanitary Stations in Siedlce and Radom.
- In early May, the labs opened coronavirus diagnostic operations. Tests rely on state-of-the-art equipment purchased with GPW's support.
- On the initiative of GPW Employees, fresh fruit boxes have been regularly delivered since March to 36
 emergency stations in Warsaw on the front of the fight with the pandemic.
- As the operator of capital market infrastructure in Poland, GPW is exposed to moderate operational and financial risk posed by the pandemic. GPW's Management Board has taken a number of measures mitigating the risk.
- 95% of GPW employees work remotely and GPW has maintained full operational capacity.

PLN 80 million

Amount of grants from companies with a stake held by the State Treasury to help fight the coronavirus pandemic



Leading ESG adoption and engagement



Developing ESG competences in the GPW Group...

- Supporting issuers and investors to ensure strong communication and understanding of the role and importance of ESG.
- Developing the product offer of GPW (benchmarks, financial instruments, information services, including WIG-ESG futures, WIG-ESG options, WIG-ESG ETF).



...and working with external partners

- Partnership with the European Bank for Restructuring and Development (EBRD) which supports partner countries in transition to climateresilient low-carbon economy.
- Global Compact is a UN agency supporting compliance with human rights, labour rules and environmental standards. GPW has joined Global Compact to gain expertise and build local ESG standards on the basis of Global Compact guidelines.
- **ESG partnership in CEE** to support relations and consolidate GPW's position as the leader.
- The GPW has been a member of the Sustainable Stock
 Exchange Initiative since 2013. Participates in quarterly conferences aimed at sharing knowledge between members. The initiative also supports stock exchanges in ESG activities.







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GPW Group's excellent financial results in Q2'20



Sales revenue

Increase of sales revenue in Q2'20 by 13.5% YoY and 4.2% QoQ driven by higher revenue on the financial market.

Operating expenses

Increase of operating expenses in Q2'20 by 4.0% YoY driven by an increase of external service charges, salaries and other employee costs. KNF cost provisions set up in Q1'20 stood at PLN 10.0 mn vs. PLN 12.9 mn in Q1'19 vs. 9.0 mn in Q1'18.

• EBITDA

Increase of EBITDA in Q2'20 by 9.7% YoY and 26.2% QoQ to PLN 63.2 mn.

<u>Net profit</u>

Increase of net profit in Q2'20 by 2.2% YoY and 48.6% to PLN 43.5 mn.

Investor activity on the financial market





Q1'18 Q2'18 Q3'18 Q4'18 Q1'19 Q2'19 Q3'19 Q4'19 Q1'20 Q2'20

NewConnect turnover value



- Increase of the Main Market EOB turnover value to PLN 70 bn in Q2'20 (+51.9% YoY, +15.3% QoQ)
- Index performance: WIG20 +16.26%, mWIG40 +21.7%, sWIG80 +30.7%
- Increase of New Connect turnover value to PLN 2.8 bn (+1067.7% YoY, 104.0% QoQ)
- Structured products turnover value: PLN 720 mn (+155.9% YoY, -8.8% QoQ)
- ETF turnover value: PLN 251.1 mn (+618.9 % YoY, +15.7% QoQ)
- Main Market: record-high share of individual investors in turnover: 22% in H1'20 vs. 13% in H1'19
- GPW Innovation Day 13 companies, more than 1300 participants (23-24.06.2020)
- Liquidity support programmes:
 - New cash market participant joined the HVP (High Volume Provider) programme;
 - Existing HVP programme participant added cash market operations
- Share of HVP participants in equity turnover: 8.7% in Q2'20 vs. 10.2% in Q2'19. Nominal turnover: PLN 6,2 bn vs. PLN 4.7 bn.

YoY increase in derivatives turnover



Derivatives turnover volume

WIG and WIG20 quarterly volatility



- Increase of the derivatives turnover volume in Q2'20 to 2.7 mn: +68.8% YoY.
- Increase of the WIG20 futures turnover volume in Q2'20 to 1.49 mn.: +66.6% YoY.
- Increase of the single-stock futures turnover volume in Q2'20 to 0.67 mn: +98.4% YoY.
- WIG20 index volatility in Q2'20 was 35.9%, WIG volatility was 31.8%.
- New derivatives market maker, already active on the cash market.
- The share of proprietary futures traders participating in HVP Programmes was 14.1% in Q2'20 vs. 9.9% in Q2'19.

Commodity market turnover in Q2'20





Electricity and gas spot and forward turnover volume

Property rights turnover volume



- Electricity market: Total electricity turnover volume in Q2'20 was 62.8 TWh (+18.8% YoY). The spot turnover volume was 8.5 TWh (+1.6% YoY). The forward turnover volume was 54.3 TWh (+22.0% YoY).
 - Gas market: Total gas turnover volume in Q2'20 was 35.7 TWh (-4.2% YoY). The spot turnover volume was 4.7 TWh (+2.1% YoY). The forward turnover volume was 31.0 TWh (-5.1% YoY).

Property rights market:

- Trade in property rights from cogeneration stopped as of June 2019.
- RSE property rights turnover volume in Q2'20 was 8.0 TWh (-1.7% YoY).
- ✓ Energy efficiency property rights turnover volume in Q2'20 was 56.4 ktoe (-67.9% YoY).
- As of May 2020 market participants may enter into transactions on the Organized Trading Facility (OTF).

* Trading in cogeneration property rights ended at the end of June 2019.

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Our market highlights and opportunities



- **1** Solid financial performance and attractive dividend
- 2 Diversified revenue structure
- 3 The largest CEE economy and growth leader in EU
- 4 Large and still growing client base
- 5 Potential for further growth in free float and liquidity in financial segment
- 6 Employee Capital Plans (ECP)
- **7** Dynamic commodity segment
- 8 Strategy update #GPW2022 (strategic initiatives)
- 9 Promotion to Developed Market status (FTSE Russell and STOXX)

1 Sound financial performance





... underpinned by increasing diversification



... and high operating leverage



... and consistent profitability



1 Ambitious financial targets



GPW Group financial targets for 2022

Revenue	• PLN 470 mn in 2022
EBITDA	• PLN 250 mn in 2022
ROE	• ROE: 19% in 2022 (it may temporarily fall below 19% due to strategy implementation expenditures)
Cost/Income	 C/I under 50% after 2022 (it may temporarily range from 63% to 55% due to strategy implementation expenditures)
Dividend	 dividend payout rate not lower than 60% of consolidated net profit dividend not lower than PLN 2.4 per share from 2019 profit annual increase in the dividend from the 2020-2022 profits by at least PLN 0.1 per share

1 Attractive dividend policy





DIVIDEND POLICY:

- ✓ dividend payout rate not lower than 60% of consolidated net profit of GPW Group for the financial year attributable to GPW shareholders, adjusted for the share of profit of associates
- ✓ dividend PLN 2.4 per share from 2019 profit (paid in 2020)
- $\checkmark\,$ annual increase in the dividend from the 2020-2022 profits by at least PLN 0.1 per share

- ² Based on the consolidated profit attributable to the shareholders of the parent entity and adjusted for the share of profit of associates
- ³ Based on the share price as at the dividend record date

 $^{^{\}rm 1}$ By financial year for which dividend was paid

2 Diversified revenue structure



GPW Group

			Trading			Post-trading	Market
Listing	Membership	Equities & other	Derivatives	Bonds	Commodities	including COR ¹ and RGO ²	data
 Equities Bonds ETFs Warrants Structured products 	 Access and use of GPW trading system Membership and participation on the commodity markets 	 Equities Structured products Warrants ETFs Investment certificates 	 Futures: index single stock fx interest rate Options index 	 Corporate bonds Municipal bonds Bank bonds T-bills T-bonds 	 Electricity spot and forward contracts Natural gas spot and forward contracts Property rights in certificates of origin CO₂ emission allowances 	 Settlement Custody Clearing COR¹ RGO² Kdpw³ 	 Real-time data Non-display data Delayed data Historical data Indices
Finan	cial market 📕 Commo	odity market	nare in total re	evenue ⁴ , LTM	1 5		
5,1%	5,8%	30,7%	3,8%	2,9%	17,2%	20,5% ⁶	13,7%
	FM: 2.1% CM: 3.7%						
³ Associate com ⁴ Does not inclu	arantees of Origin pany (33.33%); KDPW	/ Group offers post-trac ich constitute 0.3% of (ne 2020					

⁶ Does not include the KDPW revenues (associate company; equity method is applied)

3 Largest economy in the CEE region...





3... a leader of economic growth in EU



Polish economy forecast to bounceback strongly

- Poland's GDP to drop by 5.4% in 2020 and to grow by 4.9% in 2021 and 3.7% in 2022 - according to National Bank of Poland (NBP)
- According to NBP's central inflation projection, average annual CPI will be +3.3% in 2020 (average annual inflation was 2.3% in 2019)

Poland's credit ratings



GDP growth in 2019²



NBP's projection 2020-2022¹

	2020	2021	2022
Inflation CPI r/r (%)	3.3	1.5	2.1
GPW YoY (%)	-5.4	4.9	3.7
WIBOR 3M (%)	0.66	0.22	0.22

 1 published on July 17th 2020 2 GUS

Operation Potential for retail investment growth





- Most of Poles' savings are located in bank deposits: in view of record-low interest rates, a growth potential for direct and indirect investments on the GPW exists
- Stocks represent only 4.0% of Poles' savings; however, individual investors are very active on the GPW (turnover share at 22% in H1'20; individual investor portfolio turnover ratio at 40% in 2019)
- GPW initiatives: education, joint initiatives with market participants, promotion of direct and indirect investment on the Exchange, including pension savings
- New flows injected into the Polish capital market by Employee Capital Plans (PPK) -> more in slides 29-32

¹ Net of pension entitlements (pension funds and Social Insurance Institution sub-accounts), non-listed shares, other equity interest

² Short and long-term debt securities, short and long-term loans

³ Listed shares, insurance, investment funds, short and long-term debt securities, short and long-term loans Source: National Bank of Poland (NBP); data as of the end of O1 2020, latest data available

Ostrong domestic institutional investor base





- Largest institutional investor pool in the CEE region
- Open Pension Fund (OFE) net assets value amounts to PLN 131.726 bn as of Q2 2020
- Investment funds enjoy strong confidence of retail investors who increasingly seek more sophisticated savings and investment products
- As a long-term investor, pension funds freeze a large part of the free float on GPW
- Part of the free float in pension fund portfolios could be released through securities lending -> necessary regulatory change

¹PFSA, NBP, GPW

²According to the classification of funds created by IZFiA (The Chamber of Fund and Asset Management), the non-public funds sector includes those whose assets are not invested

in capital markets. Non-public funds include: securitization, real estate and non-public assets.

Ostrong and growing foreign investor base





Portfolio turnover ratio of selected investors on the GPW²

	Domestic investors			Foreign Investors
Year	Pension Funds	Investment Funds	Individual Investors	
2008	28%	71%	62%	42%
2009	26%	92%	134%	50%
2010	21%	73%	89%	53%
2011	19%	80%	100%	57%
2012	13%	69%	89%	44%
2013	14%	75%	83%	48%
2014	9%	60%	62%	41%
2015	9%	59%	59%	43%
2016	7%	60%	59%	44%
2017	7%	53%	70%	50%
2018	5%	61%	50%	57%
2019	5%	45%	40%	56%

Share of investors in trade on the futures market (%)



- Focused efforts, in co-operation with issuers, to spark interest in GPW-listed companies among foreign investors
- Close co-operation with investment banks
- Value of GPW listed shares held by foreign investors accounted for 39.8%¹ of the market capitalization of domestic shares listed on the GPW

Source: PFSA, NBP, GPW

¹ Data as of the end of 2019

² GPW estimates; portfolio turnover ratio: value of the electronic order book (buy and sell trades)/2/average portfolio value; data as of the end of 2019

New services: commodity market and nondisplay data



- Offer of state-of-the art innovative services supporting analyses of market data and investing as an important pillar of GPW Group's growth.
- Developing GPW Data:
 - The GPW Data project relies on machine learning and AI.
 - ✓ The project introduces electronic reporting standards in Inline eXtensible Business Reporting Language (iXBRL).
 - ✓ GPW Data is scheduled for roll-out in H2 2021.

Broad reach thanks to growing numbers of clients



Information services allow GPW to increase its revenue by tapping the potential of the key role of the infrastructure on the capital market.

Equity market: potential for further free float and liquidity growth





52%

2018

50%

2019

49%

Q1′20

50%

Q2′20

49%

2017

Turnover velocity and volatility

European markets equitisation and trading velocity*



* Source: Turnover, Mkt Cap - Thomson Reuters, GDP - Eurostat (except of TR, UA, IL, RU - IMF).

Source: GPW

47%

2013

48%

2014

48%

2015

49%

2016

165.3

39%

2009

O Diversified issuers portfolio



Equity market Main Market Market cap: **GPW** PIN 473 bn 392 domestic companies 48 foreign issuers PLN 393 bn Equity market for SME NewConnect NEW/ 367 domestic companies Market cap: 5 foreign issuers PLN 16.5 bn Debt market Catalvst Value of non-CATALYST 135 issuers (incl. State) Treasurv issues: 478 listed non-Treasury PLN 93,3 bn Issues

Issuer activity on GPW markets¹

Flow of new companies to the market



Acquisition of issuers

- On the radar: family companies, PE funds, CEE companies, state-owned companies and their subsidiaries
- Intensive activities aimed at promoting the stock market as a place to raise capital for development
- Individual meetings with companies previously inactive on the GPW markets

GPW Growth

- Launch of a comprehensive educational program GPW
 Growth oriented to support the development of small and medium enterprises
- Supporting non-public companies in building their value through expansion using external sources of financing, in particular with a strong accent of development through the capital market

Strong position of NewConnect among European alternative trading venues





#3 in Europe by number of IPOs in 2019²



IPOs on NewConnect 2014 – 2020

- NewConnect is dedicated to SMEs across many sectors, including technology companies
- NewConnect opened in 2007 and its current capitalisation is PLN 16,5 billion¹.
- Since the launch, over 600 companies¹ have been listed on NewConnect.
- Since the launch, 69 companies have transferred from NewConnect to GPW's main market, i.e., 15 percent of companies listed on the GPW Main Market started on NewConnect¹.
- NewConnect is dominated by individual investors who generated 93% of turnover in H1'20.
- Since the launch, IPOs and SPOs on NewConnect, have totalled approx. PLN 5.0 billion¹.
- In July 2019, NewConnect was authorised by PFSA as an SME Growth Market, joining an exclusive group of trading venues including the London Stock Exchange AIM and AIM Italia.

¹ Source: GPW data as at Q2 2020

² Source: IPO Watch, PwC for 2019.

Opportunities for further debt market development





- Segmentation of the corporate debt market architecture
- Active role of the Exchange in attracting new issuers
- Single banking licence: an opportunity to grow bank activity as debt market participants

6 Employee Capital Plans (ECP)





- Employee Capital Plans (ECP)/Pracownicze Plany Kapitałowe (PPK) are a new system of private long-term pension savings, mandatory for employers but optional for employees, based on contributions of employees, employers and the public budget.
- **PPK** scheme are very similar to UK Workplace Pension System
- **PPK's** impact on GPW:
 - ✓ Increase of market turnover and increase of the velocity rate
 - Attracting new issuers: growing number of IPOs
 - ✓ A stronger market in equities, corporate bonds, treasury bonds, real estate investment funds
 - Improved trust in and promotion of the capital market



ECP intruduction schedule

Stage	Size od company (number of employese)	number of potential participants (mn)	Start
Ι	>250	3.3	01.07.2019
II	50-249	2	01.01.2020*
III	20-49	1.1	01.07.2020
IV	others	5.1	01.01.2021
	Total	11.5	

* Stage II is delayed; will be implemented simultaneously with Stage III Source: Ministry of Finance of Poland

ECP assumes three (I, II, III) sources of contribution

		Basic contribution	Voluntary contribution	Max contribution	
Ι	Employee contribution	2% of gross wage	up to 2,0% gross wage	4% gross wage	
II	Employer contribution	1,5% of gross wage	up to 2,5% gross wage	4% gross wage	
	Max	imum total contribu	ition	8% gross wage	
III	Contriubution paid by public		welcome payment – PLN 250		
	bud	get:	annual payment – PLN 240		

Equities/debt share in total assets

Time left to the defined date (reaching 60 years old)	Equities	Debt
>20 years	60-80%	20-40%
11-20 years	40-70%	30-60%
6-10 years	25-50%	50-75%
1-5 years	10-30%	70-90%
After reaching the defined date (60 years)	<15%	>85%

Source: Ministry of Finance of Poland

Equity portfolio structure



Source: Ministry of Finance of Poland

⁶ PPK assets have crossed the mark of PLN 1.65 billion





- According to PFR forecasts, PPK assets should reach **approx. PLN 4-5 billion** by the year's end.
- The PPK launch is currently in its second round including companies with at least 50 employees. The deadlines have been postponed to 27 October 2020 (PPK management contract) and 10 November 2020 (PPK operation contract).

6 Estimated yearly inflows into PPK (PLN bn)





Source: GPW estimates

Assumptions:

- 1. Participation rate 35%
- 2. Average contribution rate 3.5%
- 3. Average wage increase (annualy) 4%,
- 4. Average monthly gross salary PLN 4 863.74
- 5. Annual subsidy from the Labor Fund (contriubution paid by public budget) PLN 240.00
- 6. Portfolio structure: equities PL 30%, foreign equities 10%, debt PL 50%, foreign debt 10%

O Commodity market



Commodity market growth drivers

- Lunch of Agricultural Market wheat and rye grains trading.
- CO2 emission allowances: On 18 July 2019, TGE reopened the Financial Instruments Market which lists CO2 emission allowances; under MiFID2, allowances are a financial instrument.
- White certificates: The Act amending the Excise Tax Act and certain other Acts of 29 June 2019 extended the support scheme for energy efficiency certificates to the end of June 2021.
- Organised Trading Facility (OTF) transformation of TGE's forward commodity market into an organised trading facility (OTF) under MiFID II
- Energy market obligation to sell a proportion of Energy on the exchange increased from 30% to 100%.



TGE electricity trade volumes (spot+forward)

TWh

Natural gas trading (spot+forward)



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O Agricultural Market: a new business pillar

Agricultural Market pilot till the end of August

- The Agricultural Market includes 34 authorised warehouses and 3 authorised brokers (Noble DM, DM BOŚ, PGE DM)
- GPW Group offers trade in standarised wheat and rye grains.
- The fee waiver expired at the end of August.

Market structure

- The operation of the Agricultural Market relies on TGE, Commodity Clearing House (IRGiT), and Authorised Warehouses.
- TGE operates transparent trade in agricultural commodities; IRGiT provides safe clearing; and Authorised Warehouses ensure high quality of stored commodities.

New products on the horizon

- The priority during the pilot is to attract more market participants, authorised warehouses and brokers.
- The range of agricultural products will later be extended to include maize, sugar, skimmed milk powder, pork semi-carcasses, concentrated apple juice.

More information: www.tge.pl/en-home





Strategy update #GPW2022 (strategic initiatives)





Poland's Promotion to Developed Markets: Success of Poland's Economy and Capital Market



Highly appreciated Polish capital market...

- Well-developed and stable market infrastructure
- Broad selection of listed stocks and high liquidity
- Wide and unlimited access to professional market intermediaries
- Independent supervision over the market and high standards of corporate governance
- Efficient and secure trading and post-trading services
- Little limitations on investing by foreign investors
- Extensive, legally regulated added value services including short selling and omnibus securities accounts

Ceremony at London Stock Exchange



Aids classification of Poland amongst the 25 Developed Markets...



FTSE Developed Markets ranking in numbers¹

0.12%	Poland's share in FTSE Developed All Cap Index as of September '19
1.33%	Poland's previous share in FTSE Emerging All Cap Index
September 2018	Poland's reclassification by FTSE Russel
0,71%	Poland's share in MSCI Emerging Markets
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Stable EBITDA margin



- Increase of GPW Group's revenue by 13.5% YoY to PLN 101.1 mn driven by higher revenue on the financial market (+34.9% YoY).
- EBITDA margin: 62.5% in Q2'20 vs. 64.6% in Q2'19.
- Stable net profit margin: 43.0% in Q2'20 driven by high increase of revenue combined with costs under control.

Increase in trading revenue on the financial market GPW



¹ Other cash market instruments, other fees paid by market participants

Trading revenue on the financial market at PLN 44.0 mn in Q2'20 (+54.9% YoY).

Average EOB turnover in shares per session on the Main Market in Q2'20 at PLN 1182.5 mn vs. PLN 986.4 mn in Q1'20 vs. PLN 784.3 mn in Q2'19.

- Average fee on the stock Main Market at 2.31 bps in Q2'20 (vs.2.26 bps in Q1'20) driven by growing individual investor activity.
- Average fee historically by quarter: 2.19 bps in Q2'19/2.16 bps in Q3'19/2.20 bps in Q4'19. The annual average fee was: 2.19 bps in 2019/2.21 bps in 2018/2.18 in 2017.

Investor activity on GPW markets

Q2′19	Q3′19	Q4′19	Q1′20		Q2′20
Shares turno	over value (EOB, PLN bn)		
46,3	49,0	44,9	61,1		70,4
					+52,1% YoY
					+15,2% QoQ
Futures and	options tur	nover volume	e (mn contract	s)	,
1,6	2,0	1,7	3,1		2,7
,	,				+68,8% YoY
					-12,9% QoQ
Treasury bor	nds – TBSP	, cash transa	ctions (PLN br	ı)	,, , , , , , , , , , , , , , , , , , ,
17,8	21,1	10,6	18,6		5,1
	,	,	•		-71,5% YoY
					-72,8% QoQ
Treasury bor	nds – TBSP	, conditional t	transactions (I	PLN bn	,
70,5	35,3	32,9	43,6		22,9
. 570	10/0	/5			•
					-67,6% YoY -47,3% QoQ

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Listing revenue





- One new listing on the Main Market (Games Operators) and one new listing on NewConnect (SimFabric) in Q2'20.
- Main Market SPO value Q2'20 was PLN 604 mn vs. PLN 892 mn in Q1'20 vs. PLN 41 mn in Q2'19.
- Expected recovery in IPO activity in 2H 2020
- Revenue from listing fees in Q2'20 decreased YoY. Number of listed companies: 440 at the end of Q2'20 vs. 460 at the end of Q2'19 (Main Market).

Issuer activity

Q2′19	Q3′19	Q4′19	Q1′20	Q2′20
Number of n	ew listings on	the Main Mar	ket	
2	2	1	0	1
				-50,0% YoY +100% QoQ
Capitalisatio	n of domestic	companies (P	LN bn)	
594,4	551,1	550,2	404,2	472,9
				-20,4% YoY
				+17,0% QoQ
Value of IPO	s (PLN mn)			
40	5	9	3	24
				-40,0% YoY

Record-high revenue from information services **GPW**



- New GPW Group data agreements were signed in Q2'20 with users in different market segments, namely:
 - GPW data:
 - 1 data vendor
 - 2 non-display data users
 - 2 processed data clients
 - GPW Benchmark data:
 - 2 non-display clients
 - BondSpot data:
 - 1 data vendor
- Continued dynamic increase in the number of individual subscribers.

Data vendors, subscribers and non-display clients

Q2'19	Q3'19	Q4′19	Q1′20	Q2′20
Number of s	ubscribers (th	ou.)		
249,6	238,5	260,3	312,1	337,9
				+35,4% YoY +8,3% QoQ
Number of v	endors			
82	83	83	85	85
				+3,7% YoY
				0% QoQ
Non-display				
86	88	94	96	95
				+10,4% YoY -1,0% QoQ

Revenue from the electricity, gas, and property rights markets



- Increase of revenue from trading in electricity in Q2'20 to PLN 4.7 mn (+34.4% YoY) driven by a dynamic increase in turnover on the forward market combined with a modest increase in turnover on the spot market.
- Revenue from trading in gas in Q2'20: PLN 3.0 mn (-4.1% YoY).
 Spot turnover up, forward turnover down YoY.
- Decrease of revenue from trading in property rights by PLN 8.3 mn

(-33.7% YoY) due to discontinuation of trading in cogeneration certificates as of 30 June 2019 and a decrease of the energy efficiency certificates turnover.

 Increase of revenue from other fees paid by market participants to PLN 3.4 mn (+13.0% YoY) mainly driven by a temporary suspension of the reduction of annual fees on the gas market.
 Investor activity on the commodity market

Q2′19	Q3′19	Q4′19	Q1′20	Q2′20
Electricity turr	nover volume (TWh)		
52,9	65,0	66,7	66,6	62,8
				+18,8% -5,6% (
Gas turnover	volume (TWh)			,
37,3	39,6	40,7	39,9	35,7
				-4,2% -10,5% (
Property right	s turnover volu	ıme (TWh)		
21,1	5,6	6,3	6,7	8,0
				-62,1% +19,5% (



Revenue from clearing







 $^{\rm 1}$ Revenue from the Register of Certificates of Origin, including revenue from the Register of Guarantees of Origin.

- Decrease of revenue from clearing in Q2'20 to PLN 11.4 mn (-6.9% YoY)
- Increase of the revenue from the operation of the Register of Certificates of Origin in Q2'20 to PLN 9.1 mn (+1.6% YoY) driven by an increase in the volume of issued and cancelled RES certificates.
- The volume of transactions in RES electricity in the Register of Guarantees of Origin in Q2'20 was 4,748,622 MWh, an increase of 14.6% YoY.

Activity of participants of the	Register of Certificates of Origin
---------------------------------	------------------------------------

Q2′19	Q3′19	Q4′19	Q1′20	Q2′20
Volume of is	ssued prope	rty rights (T	Wh)	
8,3	4,8	4,0	6,0	8,3
				0,0% YoY
				+37,0% QoQ
Volume of c	ancelled cer	tificates of o	origin (TWh)	
19,9	13,1	5,4	4,4	12,8
				-35,6% YoY
				+194% QoQ
Guarantees	of Origin –	turnover vol	ume (TWh)	
4,1	4,1	4 ,9	5,0	4,7
				+15,8% YoY
				-5,6% QoQ

Q2'20 operating expenses, financial expenses and other expenses



Change in operating expenses in O2'20 vs. O2'19

- Cost/income ratio $(C/I)^2$ in Q2'20 at 44.5 vs. 48.6 in Q2'19.
- Depreciation charges at PLN 9.1 mn (-3.6% YoY, -7.0% OoO).
- Increase of salaries and other employee costs to PLN 22.3 mn (+15.5% YoY, +0.1% OoO) driven among others by additional headcount in the implementation of the strategy #GPW2022.
- Decrease of external service charges to PLN 11.3 mn (-2.3%)YoY, -1.1% QoQ).
- Provisions against potential IRGiT's tax payable at PLN 2.9 mn in Q2'20
- Other expenses in Q2'20 include a write-off of the investment in BondSpot at PLN 3.5 mn



¹ Other includes rent, fees and charges (net of the KNF fees), and other operating expenses

² C/I based on reported data

PI N mn

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Share of profit of entities measured by equity method





- Group's share of profit of associates and joint ventures in ٠ Q2'20 at PLN 4.4 mn (+21.0% YoY, +122.4% QoQ).
- KDPW: ٠
 - ✓ The Group's share of net profit of KDPW in Q2'20 at PLN 4.2 mn vs. PLN 3.8 mn in O2'19
 - Increase of KDPW's operating income
- GPW's share of profit of Centrum Giełdowe in O2'20 at PLN 0.2 mn, similar to 02'19.
- The Group's share of the loss of PAR was (PLN 0.31 mn) in ٠ Q2'20. The investment was impaired at 30 September 2019. Following the impairment, the value of the investment in PAR is equal to 0.

GPW Group's consolidated statement of financial position



PLN mn	30.06.2019	30.09.2019	31.12.2019	31.03.2020	30.06.2020
Equity	821,2	859,1	873,5	901,6	845,6
Non-current liabilities	281,2	282,6	283,5	276,9	278,0
Liability under the bond issue	244,2	244,3	244,4	244,4	244,5
Current liabilities, including among others	255,7	89,3	99,8	149,6	258,5
Trade payables	31,9	13,8	11,6	21,4	22,1
Employee benefits payable	13,6	16,5	17,2	15,8	14,9
Contract liabilities	22,2	12,0	4,4	35,6	25,3
Other current liabilities	171,9	34,0	41,7	43,6	159,1
Total equity and liabilities	1 358,1	1 231,1	1 256,8	1 328,0	1 382,2

- The increase of assets year to date as at 30 June 2020 was mainly driven by an increase of cash and cash equivalents (by PLN 124.6 mn)*
- The increase of current liabilities year to date as at 30 June 2020 was mainly driven by an increase of other current liabilities (current VAT in TGE and IRGiT, as well as GPW's dividend payable at PLN 100.7 mn).

* Cash is understood as a combination of "Cash and cash equivalents" and "Financial assets measured at amortised cost". "Cash and cash equivalents" includes cash in bank accounts and term deposits up to 3 months. "Financial assets measured at amortised cost" includes among others cash in term deposits over 3 months.

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GPW Group consolidated statement of comprehensive income



PLN mn	Q2'19	Q1'20	Q2'20
Revenue	89,1	97,0	101,1
Financial market	45,4	58,7	60,7
Trading	28,4	41,5	44,0
Listing	5,1	5,4	37,5
Information services	12,0	11,8	12,9
Commodity market	43,4	38,1	40,1
Trading	22,1	18,9	19,3
Register of Certificates of Origin	9,0	5,9	9,1
Clearing	12,2	13,1	11,4
Information services	0,2	0,3	0,3
Other operating income	0,3	0,2	0,4
Operating expenses	43,3	56,1	45,0
Other income	1,9	1,2	1,8
Impairment gains/(losses) on receivables	1,4	-1,1	0,8
Other expenses	0,9	0,9	4,6
Operating profit	48,2	40,3	54,1
Balance on financial income and expencies	0,1	-4,8	-3,9
Impairment loss on investments in other entities	0,0	0,0	-0,6
Share of profit/(loss) of entities measured by equity method	3,6	2,0	4,4
Profit before income tax	51,9	37,4	54,0
Income tax	9,4	8,2	10,5
Net profit	42,6	29,3	43,5
EBITDA	57,6	50,0	63,2

- The increase of sales revenue in Q2'20 was driven by an increase of revenue on the financial market by 33.5% YoY, i.e., by PLN 15.2 mn to PLN 60.7 mn
- Operating expenses increased by PLN 1.7 mn (+4.0% YoY) driven mainly by an increase of salaries and other employee costs
- The increase of financial expenses in Q2'20 by PLN 2.7 mn YoY was driven mainly by provisions against IRGiT's tax payable at PLN 2.9 mn
- The increase of other expenses in Q2'20 by PLN 3.7 mn YoY was due to the impairment of goodwill of the subsidiary BondSpot at PLN 3.5 mn recognised in other expenses

GPW Group consolidated cash flows

PLN mn 6 months period ended 30 June of	2020	2019
Total net cash flows from operating activities	138,5	137,7
Net prof it of the period	72,8	67,0
Adjustments:	85,7	89,4
Income tax	18,7	15,2
Depreciation and amortisation	19,0	18,6
Share of (profit)/loss of entities measured by equity method	-6,4	-4,6
(Gains) on assets measured by equity method	-2,0	-2,6
Interest on bonds	3,6	3,6
Other adjustments	-1,3	0,7
Change of assets and liabilities :	55,0	58,5
Trade receivables and other receivables	-12,1	3,7
Other liabilities (excl. contracted inves tments and dividend payable)	21,7	14,7
Provis ions for liabilities and other charges	9,8	0,0
Income tax (paid)/refunded	-20,0	-18,6
Total cash flows from investing activities:	-1,5	158,3
In:	451,4	507,8
Sale of property, plant and equipment and intangible assets	-	1,3
Sale of financial assets measured at amortised cost	447,7	502,6
Interest on financial as sets measured at amortised cost	2,9	3,3
Out:	-452,9	-349,5
Purchase of property, plant and equipment	-5,3	-1,9
Purchase of intangible as sets and advances for intangible as sets	-11,1	-4,0
Purchase of financ ial as sets measured at amortised cos t	-435,8	-343,6
Total cash flows from financing activities:	-0,3	-6,7
In:	6,4	-
Grants received	6,4	-
Out:	-6,6	-6,7
Interes t paid on bonds	-3,7	-3,6
Net (decrease)/increase in cash and cash equivalents	136,7	289,4
Cash and cash equivalents - opening balance	281,3	188,7
Cash and cash equivalents - closing balance	418,4	478,1

- Positive cash flows from operating activities in H1'20 stood at PLN 138.1 mn vs. PLN 137.7 mn in H1'19, mainly driven by a higher net profit.
- Cash flows from investing activities in H1'20 were negative at PLN 0.4 mn vs. positive cash flows at PLN 158.3 mn in H1'19. The negative cash flows were due to outflows exceeding inflows. Outflows included the investment of financial assets measured at amortised cost as well as the purchase of property, plant and equipment and intangible assets.
- Cash flows from financing activities in H1'20 were negative at PLN 0.3 million vs. negative cash flows at PLN 6.7 mn in H1'19. The increase of cash inflows from financing activities in H1'20 was driven by grants received for the projects "New Trading System", "GPW Data" and "Agricultural Market".



GPW Group's revenue structure: incremental for 12 months ended 30 June 2020



*Since revenue from information services on the commodity market is presented in a dedicated line, the data above <u>only</u> include revenue on the financial market.

GPW

Financial market: Trading in equities





Equity turnover value and number of transactions



2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 Q1'20 Q2'20

- Revenue drivers:
 - Equity turnover value
 - Order structure (small, large, mid-sized orders)

Financial market: Trading in derivatives



3.7%²

- Revenue drivers:
 - Derivatives turnover volume
 - Number of open interest
 - ✓ Volatility

Derivatives turnover volume



¹ Velocity ratio (value of trade in WIG20 futures to value of trade in WIG20 stocks)

Financial market: Other instruments and fees paid by participants



2.4%¹
1.9%²

- Revenue drivers:
 - Treasury bonds turnover value
 - Number of exchange members





¹ Share in GPW Group's revenue in Q2'20, debt instrument turnover

² Share in GPW Group's revenue in Q2'20, other trading fees paid by market participants

Financial market: Listing



4.4%¹

- Revenue drivers:
 - Capitalisation at YE
 - Value of new issue shares and bonds
 - Number of issuers

Capitalisation of domestic companies

Market capitalization/GDP (%)

Market capitalization of local companies (PLN bn)



IPO/SPO value and number of companies



Financial and commodity market: Information services





- Revenue drivers:
 - Number of data vendors
 - Number of subscribers



Number of subscribers (thou.)



 1 Total share of information services on the financial market and the commodity market in GPW Group's revenue in Q2'20

55

Commodity market: Trading in electricity and gas

7.6%²

- Revenue drivers:
 - Electricity turnover volume \checkmark
 - Gas turnover volume \checkmark
 - Share of spot and forward trade \checkmark

2012 2013 2015 2018 2019 2008 2009 2010 2011 2014 2016 2017 Gas turnover volume (TWh) Spot Forward 146.1 143.3 138.7 22.6 23.7 24.0 111.6 114.5 106.8 6.5 24.6 13.9 123.5 119.6 114.7 105.1 92.9 89.9 2.4 1.1 04 0.0 2.0 2012 2013 2014 2015 2016 2017 2018 2019 H1'19

¹ Data for 2006-2013 include trade on the GPW Energy Market poee

² Total share of trade in electricity and trade in gas in GPW Group's revenue in O2'20



🐼 GPW

H1'20

Electricity turnover volume (TWh)¹

Commodity market: Trading in property rights



8.2%¹

- Revenue drivers:
 - Property rights turnover volume
 - Share of certificate categories in trade
 - Number of register participants



Number of participants of the Register of Certificates of Origin



² Trade in cogeneration property rights ended at the end of June 2019.

Commodity market: Register of Certificates of Origin



9.0%¹

- Revenue drivers:
 - Volume of issued property rights
 - Volume of cancelled property rights





Volume of cancelled certificates of origin (TWh)



Glossary (1)



Cogeneration	technological process where electricity and heat are generated simultaneously in a combined heat and power plant; thanks to lower consumption of fuel, cogeneration provides material economic benefits and environmental advantages over separate generation of heat in a traditional heat plant and of electricity in a condensation power plant
Colocation	a service where the exchange provides physical space and allows clients to install hardware and software in direct proximity to the exchange's trading system
COR	Certificates of Origin Register, register maintained by the Polish Power Exchange responsible for registration and record-keeeping of certificates of origin
ECM	Equity Capital Market, value of equity raised on the financial market
EOB	Electronic Order Book, trade excluding block trades
ETF	Exchange Traded Funds, track the performance of an exchange index. Similar to other investment funds, ETFs are regulated under EU Directives and national regulations. ETF can daily create and cancel ETF units. ETF units are exchange traded on the same terms as shares.
EIP	Exchange Traded -Products, structured products - financial instruments whose price in linked to the value of a market indicator (the underlying instrument)
FESE	Federation of European Stock Exchanges
Free float	free float shares are shares other than held by shareholders which hold more than 5% each, Treasury shares for cancellation, and registered shares; free float includes all shares held by investment funds, pension funds and asset managers and shares participating in depository receipt issue programmes
Green certificates	Certificate of origin is a document cerifing that the Energy was produced from the renewable Energy resources
HVF	High Volume Funds, a promotion programme addressed to investment funds actively trading in shares on GPW

Glossary (2)



нур	High Volume Provider, a promotion programme addressed to legal entities whose core business is to invest on financial markets only on own account
ΙΡΟ	Initial Public Offering, in this presentation, PwC IPOwatch Europe reports and FESE data, IPO means all offerings where a company first raises equity on the capital market, either in a public offering or a private placement
ISV	Independent Software Vendors, providers of client software for exchange members used to trade on the trading platform
МСО	Market Coupling operator
MRC	Multi-regional Coupling, European project of operational integration of spot electricity markets
MTF	Multilateral Trading Facility, addressed mainly to institutional investors, offers trade in stocks combined with very short lead times for the execution of orders as well as low trading fees. MTFs are usually operated by investment firms (banks, brokers) or securities exchanges. MTFs offer trade in the same stocks as those listed on other markets and do not provide listings.
NEMO	Nominated Electricity Market Operator is a market operator designated by the competent authority of the European Union Member State to participate in single day-ahead or single intraday coupling
отс	Over the Counter, a non-regulated market outside the exchange, where trade in non-standard financial instruments is made directly between counterparties without the mediation of a securities exchange
REIT	Real Estate Investments Trusts are special companies and funds investing in real estate; they manage a real estate portfolio to earn a fixed income from rent, and pay out most of the earnings to shareholders as dividend
RES	renewable energy sources

Glossary (3)



RGO	Register of Guarantees of Origin, register of instruments supporting renewable energy sources, which aim to provide disclosure for the end customer as to the amount of electricity generated in a renewable source and supplied to the power distribution or transmission network
SPO	Second Public Offering
Post-trade services	depository, clearing and settlement services
UTP	Universal Trading Platform, the trading system of the Warsaw Stock Exchange supplied by NYSE Technologies
White certificates	Certificates of origin of energy efficiency
Velocity	a measure of liquidity of trade in stocks equal to turnover in a period to average capitalisation at the beginning and at the end of the period



IR events

• 3-4 September 2020

Investor's Day: CEE Financials, PKO BP

• 20-24 September 2020

25th Annual Financials CEO Conference, Bofa

• 1-2 October 2020

European Financials Conference, mBank, Warsaw

• 5 November 2020

Publication of the consolidated interim report of GPW Group for Q3 2020

• 9 -10 November 2020

Goldman Sachs Goldman Sachs 12th Annual CEEMEA One-on-One Conference

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