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Tuesday Espresso

Weekly Commodity Roundup

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Utilities

German power contracts are hovering about an euro lower than a week ago at around EUR 37/MWh, with coal and carbon markets trading mostly sideways over the recent days. There has not been much change in Polish contracts at PLN 222/MWh, with clean-dark spreads still squeezed by the earlier rise in emission costs. The Polish power sector is still in anticipation mode ahead of the eagerly-awaited announcement of an updated national energy strategy, which may or may not include cash investments by state-controlled utilities.

Gas & Oil

Oil market sentiment is upbeat, as evidenced by eight weeks straight of increasing speculative positions. As crude prices rise, refiners experience squeezed cracking margins, underpinned by weak demand for their products. The model margin is still negative at -\$2/bbl, and the Urals/Brent keeps moving further into the negative territory (-\$2/bbl). To us, this indicates many more months of reduced capacity utilization rates as new refineries are about to brought on line in different parts of the world and as Chinese producers maximize output to capitalize on higher regulated prices, resulting in record growth in Chinese exports of diesel (+20% y/y) and gasoline (+40% y/y).

In Petchem, margins have stabilized at compressed levels and product prices at the moment are seen to be trying to catch up with crude feedstocks.

Gas contracts for 2021 delivery in the EU market are holding above EUR 12/MWh, but with spot prices stuck at 4 euros downside risk to our positive 2021 forecasts is still there.

Metals

Prices of industrial metals shifted higher on slightly better-than-expected PMI prints in China. For KGHM, the zloty's current appreciation against the dollar is putting downward pressure on profit margins. KGH stock has enjoyed better performance in the past week than the zloty copper index.

Coal

Prices paid for thermal coal imported from abroad are low as the zloty strengthens vis-a-vis the dollar, and this is bad news for the local producer JSW, which will probably have to mark sales prices down heavily in the quarters ahead. The same goes for rival listed coal miner LW Bogdanka, indicating lower orders ahead for the mining equipment producer Famur. Prices of coking coal are also on a downward trend despite improving prospects for the Chinese steel industry. On top of all that, JSW is having to stop some of its operations due to coronavirus infections among employees.

China's recovering steel demand, which coincides with coronavirus-induced production curbs in Brazil, is having a positive effect on prices of iron ore (boosting the prospects of BHP and Rio Tinto).

Agricultural Commodities

Prices in the Brazilian sugar market have shifter higher on coronavirus production concerns. Brazil is the second-largest sugar supplier in the world after India, also affected by the coronavirus pandemic. In Ukraine, sugar prices are propped by a lower 2019 sugar beet harvest.

Charts of the Week



Source: Bloomberg, mBank

China steel PMI (points)

China's Purchasing Managers' Index for the steel industry increased to 50.9 points in May, an improvement of 5 points on the previous month. This was accompanied by a rise in the new orders index to 52.9pts, and an acceleration in production to 56.4pts. At the same time the domestic steel stocks were seen to decrease. The export orders sub-index improved in May but was still low at 31.9pts vs. 27.8 in April.

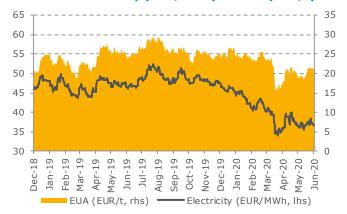
1-Week & YTD Performance

Company	1W	YTD
Ciech	-9.7%	-7%
Tarczyński	-4.7%	-11%
MOL	-1.5%	-33%
OMV	-1.2%	-41%
CEZ	0.0%	-5%
Kernel	0.0%	-5%
Astarta	0.6%	1 %
Alumetal	1.3%	-5%
Orzeł Biały	1.5%	-14%
Kęty	1.9%	2 %
Energa	1.9%	13%
PCC Rokita	2.1%	2 %
Lotos	2.1%	-28%
Boryszew	2.2%	-13%
IMC	3.8%	-2%
LW Bogdanka	5.9%	-41%
ZCh Police	6.3%	13%
PKN Orlen	7.4%	-21%
ZE PAK	7.7%	5%
KGHM	8.7%	-9%
Kruszwica	8.7%	28%
Grupa Azoty	8.8%	15%
Tauron	9.8%	-21%
Tupras	10.8%	-30%
PGNiG	11.7%	-1%
Enea	13.3%	-22%
ZA Puławy	18.3%	6%
PGE	24.8%	-34%
JSW	28.5%	-18%
WIG Indices	1W	YTD
WIG	4.8%	-16%
Chemicals	1.4%	5%
Energy	13.1%	-21%
Oil & Gas	7.0%	-19%
Food Industry	1.6%	-1%
Basic Material	9.9%	-10%
Ukraine	1.1%	-2%
Sector Indices	1W	YTD
Mining	4.0%	-8%
Oil & Gas E&P	0.9%	-39%
Refining EU	9.6%	-23%
Refining US	2.4%	-31%
Agri & Food	0.7%	-2%
Rubber	6.8%	-27%
Fertilizers	2.9%	-10%
Chemicals EU	3.7%	-9%
Industrials EU	3.2%	-17%
Petchem World	5.2%	-21%
Utilities EU	4.9%	-4%
Utilities US	+6.9%	-6%

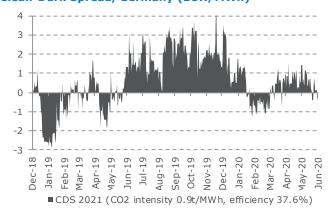
mBank Biuro maklerskie

Utilities

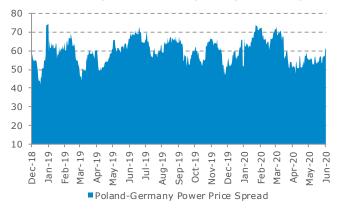
EU Prices of Electricity (EUR/MWh) & EUAs (EUR/t)



Clean-Dark Spread, Germany (EUR/MWh)



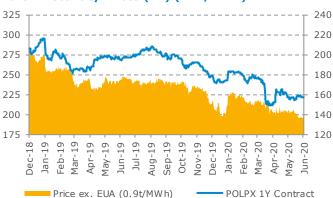
Poland-Germany Power Price Spread (PLN/MWh)



ARA Coal Spot and Forward Prices (EUR/t)



Polish Electricity Prices (1Y) (PLN/MWh)



Polish Green Certificate Prices (PLN/MWh)



Weekly Returns of Utility Stocks

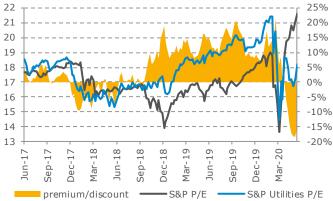


Utilities

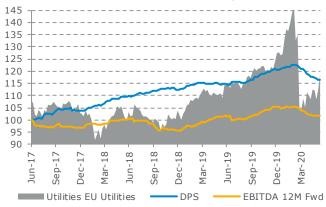




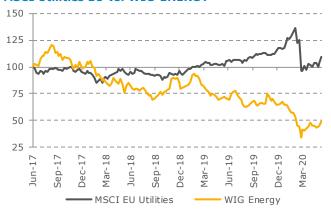
S&P Utilities vs. S&P 500 P/E



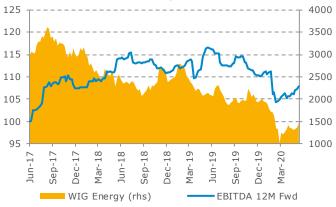
MSCI Utilities EU vs. DPS & EBITDA Expectations



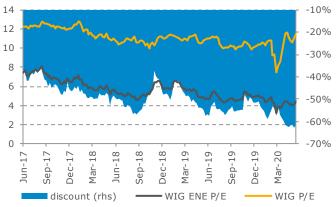
MSCI Utilities EU vs. WIG-ENERGY



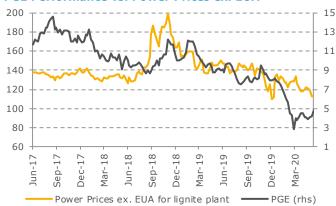
WIG-ENERGY vs. EBITDA Expectations



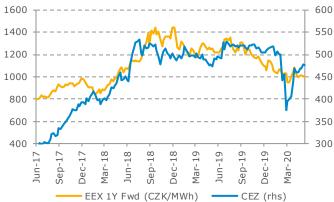
WIG-ENERGY vs. WIG P/E



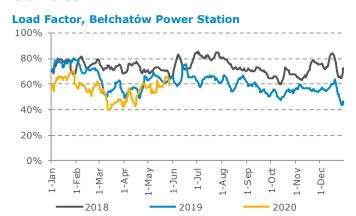
PGE Performance vs. Power Prices ex. EUA

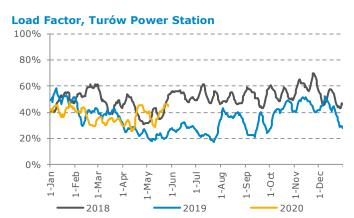


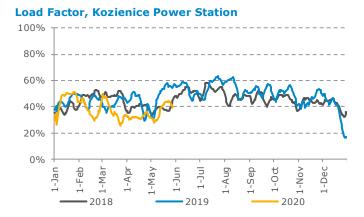
CEZ Performance vs. EEX Power Prices (CZK/MWh)

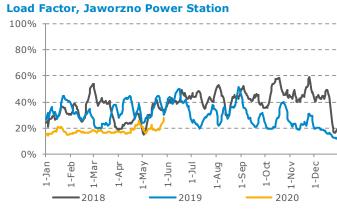


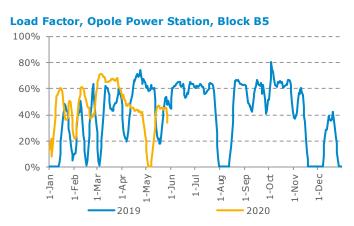
Utilities

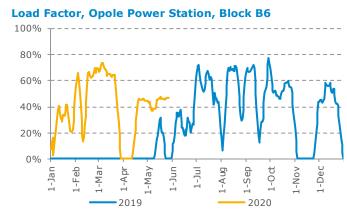


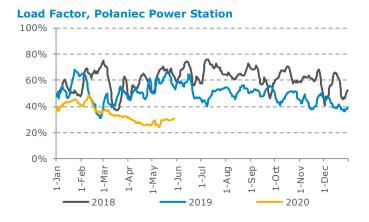


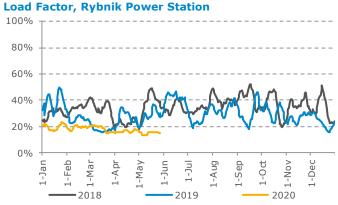












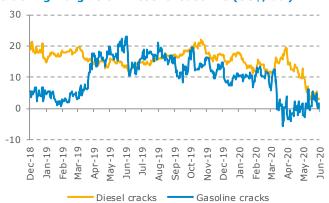
Source: PSE, mBank; Load factor = actual generation (7-day average) as a percentage of available capacity

Gas & Oil

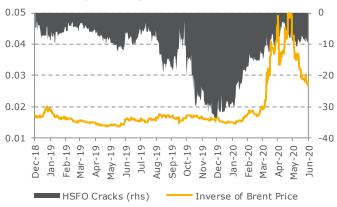
Refining Margins (US\$/bbl)



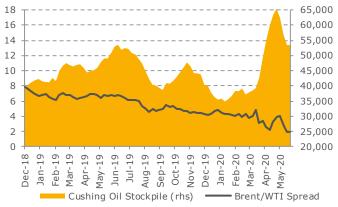
Cracking Margins on Diesel & Gasoline (US\$/bbl)



HSFO Cracks (US\$/bbl) vs. Inverse of Brent Price



Brent/WTI Spread vs. Cushing Oil Stockpile

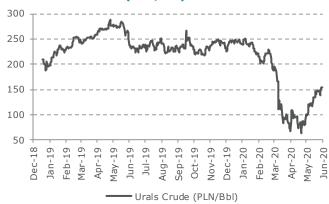


Source: Bloomberg, mBank

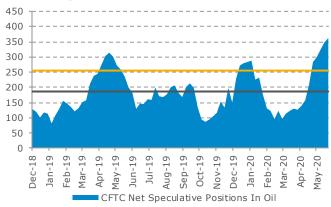
Urals/Brent Pricing Differential (US\$/bbl)



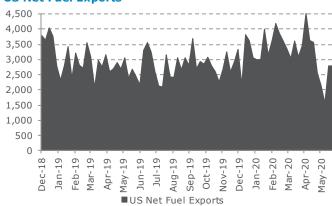
Price of Urals Crude (PLN/bbl)



CFTC Net Speculative Positions In Oil

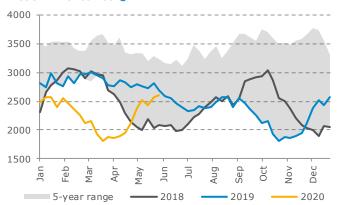


US Net Fuel Exports

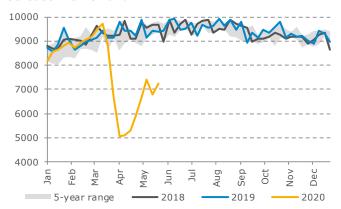


Gas & Oil

Diesel Inventories @ARA



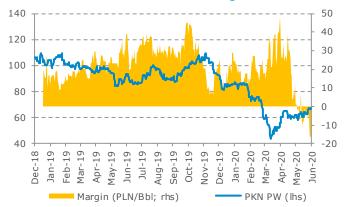
US Gasoline Demand



Global Refinery Outages (mbbl/d)

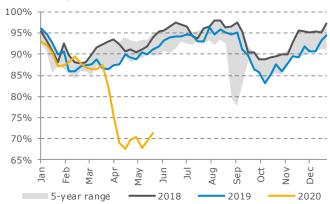


PKN Performance vs. Benchmark Margins

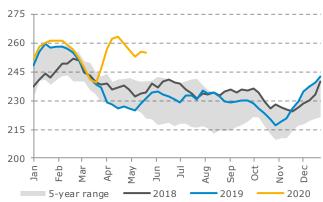


Source: Bloomberg, mBank

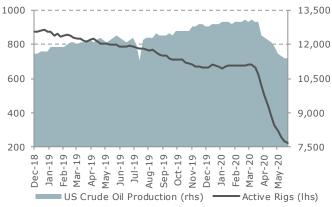
US Refinery Utilization Rates



US Gasoline Inventories



US Crude Oil Production (mboe/d) vs. Active Rigs



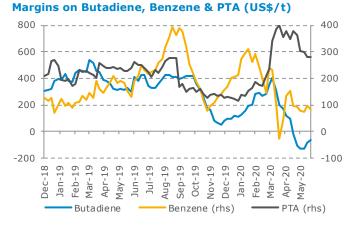
Normalized Oil Stock Chart



Petrochemicals & NatGas

Margins on Polyolefins

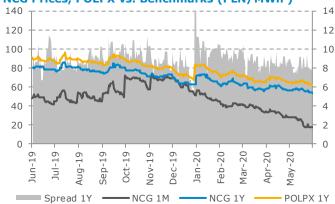




Estimated Costs of Imported Natural Gas (PLN/MWh)

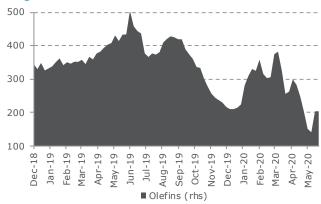


NCG Prices, POLPX vs. Benchmarks (PLN/MWh)

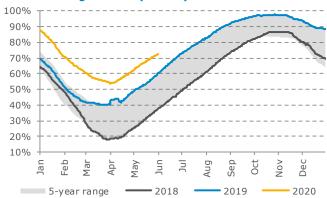


Source: Bloomberg, mBank

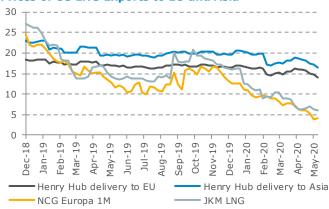
Margins on Olefins



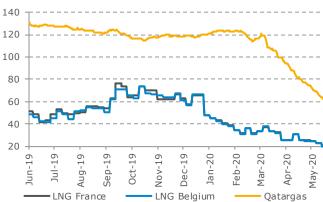
EU Gas Storage Levels (% Full)



Prices of US LNG Exports to EU and Asia



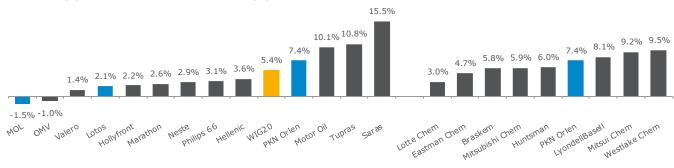
LNG Spot Rates vs. Estimated Qatargas rates



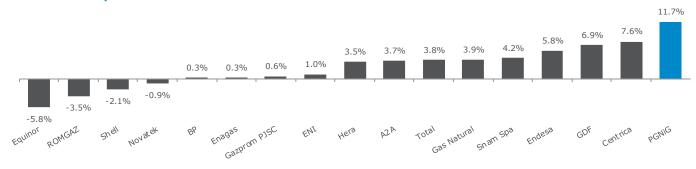
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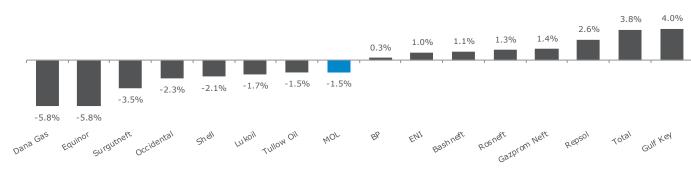
Weekly Performance Charts

Oil Refiners (L) & Petrochemical Producers (R)

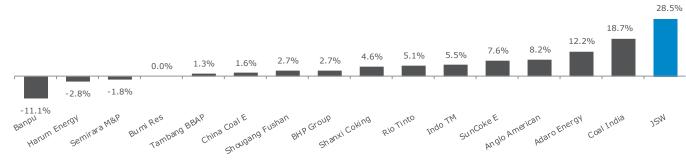


Natural Gas Companies

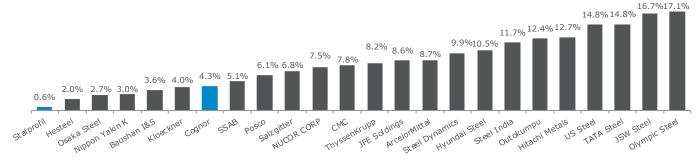




Coal Producers

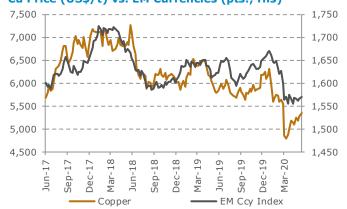


Steel Producers & Distributors

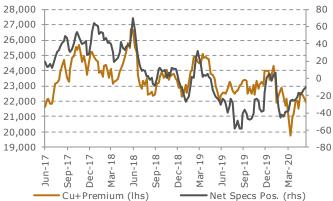


Copper Charts

Cu Price (US\$/t) vs. EM Currencies (pts.; rhs)



CU Price incl. Supplier Premium (PLN 1,000/t; lhs) vs. Net Speculative Positions (1,000, rhs)



Physical Copper Premiums (PLN/t)



Copper Price Forecasts (median; US\$/t)



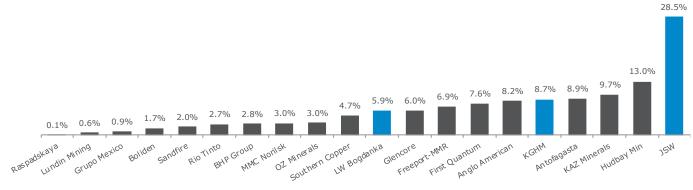
Silver prices (PLN/kg)



Prices of gold (PLN/oz)



Weekly Returns of Metal & Mining Stocks

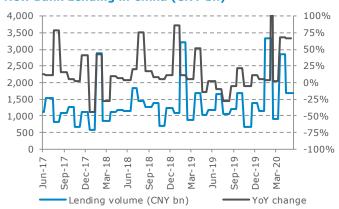


More Copper Charts

Prices of molybdenum (PLN/10 kg)



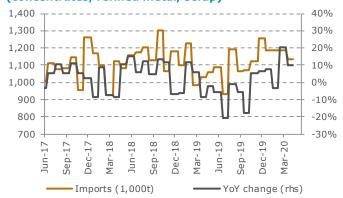
New Bank Lending in China (CNY bn)



China PMI (points)

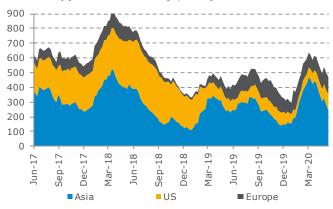


Chine Copper Imports (concentrates, refined metal, scrap)



Source: Bloomberg, mBank

Global Copper Inventories (1,000t)



Car Sales in China (thousands)



% Change In Avg. New Home Prices In 70 CN Cities



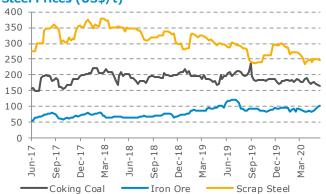
Metal Price Index (pts, rhs) vs.

Net Speculative Positions (million contracts, lhs)

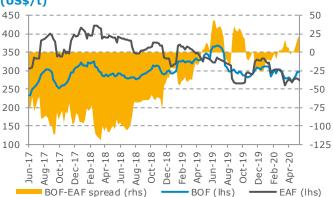


Steel Charts

China Coking Coal & Iron Ore Prices, Rotterdam Scrap Steel Prices (US\$/t)



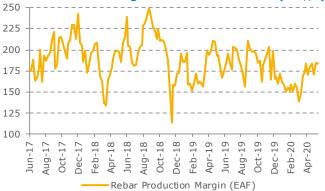
Production Costs of BOF vs. EAF Steel Producers (US\$/t)



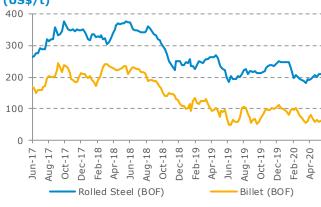
Prices of Steel Rebar & Hot-Rolled Steel (US\$/t)



Rebar Production Margins of EAF Steelmakers (US\$/t)



Rolled Steel & Billet Margins of BOF Steelmakers (US\$/t)



Global Steel Plant Capacity Utilization Rates & Output (Mt)



China Steel PMI (pts)



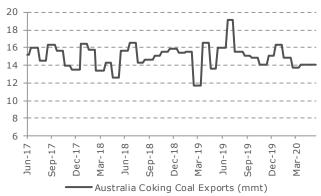
China Steel PMI New Orders & Backlog Orders (pts)



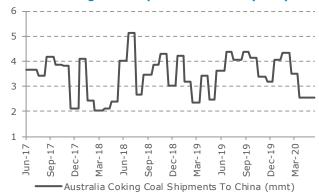
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More Steel Charts

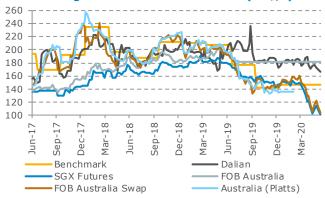
Australia Coking Coal Exports (mmt)



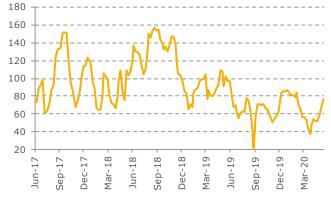
Australia Coking Coal Shipments To China (mmt)



China Coking Coal Prices vs. Benchmark (US\$/t)

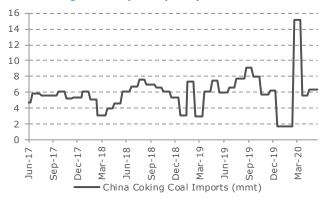


Coking Coal-Coke Price Spread (US\$/t)



Source: Bloomberg, mBank

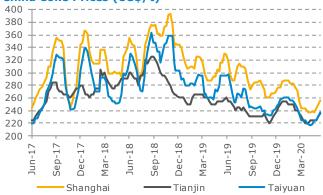
China Coking Coal Imports (mmt)



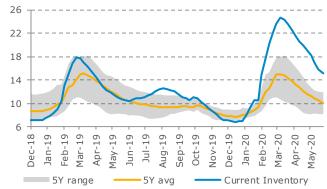
China Coke Inventories (lhs; mmt) & Average Prices (rhs; US\$/t)



China Coke Prices (US\$/t)

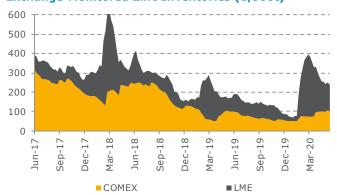


China Steel Inventory (mmt)

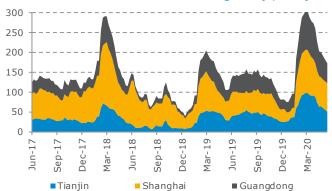


Zinc and Electrical Steel Charts

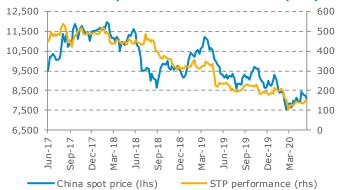
Exchange-Monitored Zinc Inventories (1,000t)



Zinc Inventories in Three Chinese Regions (1,000t)



Zinc Prices vs. Stalprodukt Stock Performance (PLN)



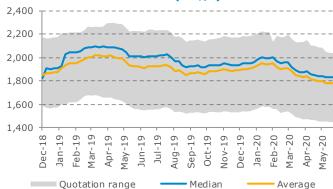
US Dollar Zinc Prices (US\$/t)



Polish Zloty Zinc Prices (PLN/t)



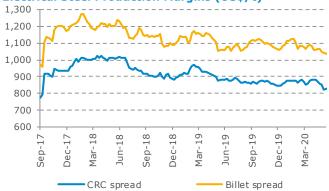
China Electrical Steel Prices (US\$/t)



Prices of Steel Billet & Cold Rolled Coil (US\$/t)



Electrical Steel Production Margins (US\$/t)



Thermal Coal Charts





Poland Hard Coal Imports & Exports (1,000t)



Hard Coal Stockpiled By Polish Mines (1,000t)



Inventory/ Production Ratio



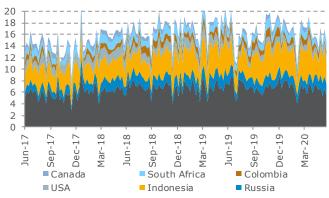
Thermal Coal Prices vs. Benchmarks (PLN/GJ)



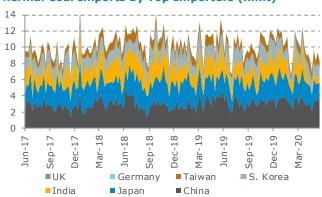
China Thermal Coal Inventories, Total & In Ports (mmt)



Thermal Coal Exports By Top Producers (mmt)



Thermal Coal Imports by Top Importers (mmt)

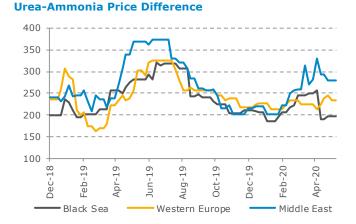


Source: Bloomberg, ARP, Eurostat, mBank *Upper Silesian Coal Basin

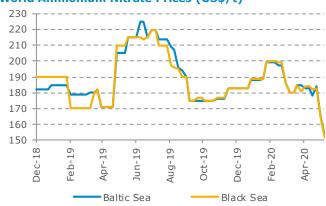
Fertilizer Charts

German NatGas Prices (US\$/MWh)

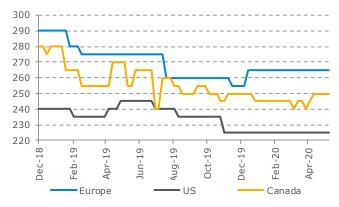




World Ammonium Nitrate Prices (US\$/t)



World Ammonium Sulfate Prices (US\$/t)

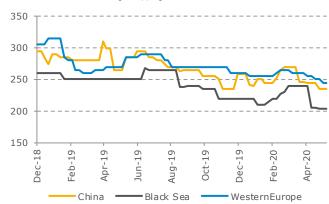


Source: Bloomberg, mBank

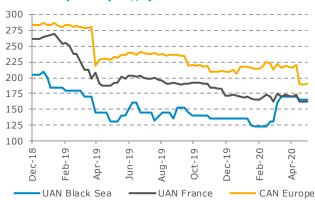
World Ammonia Prices (US\$/t)



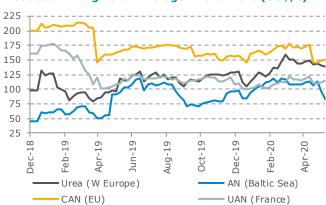
World Urea Prices (US\$/t)



CAN & UAN prices (US\$/t)

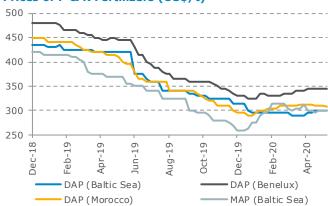


Production Margins On Nitrogen Fertilizers (US\$/t)

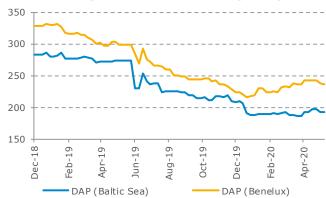


Fertilizer Charts

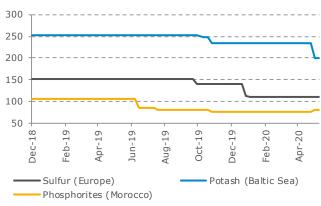
Prices of P & K Fertilizers (US\$/t)



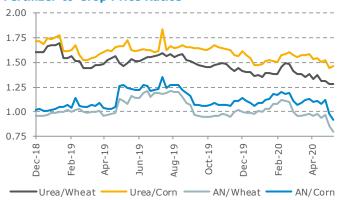
Production Margins on P & K Fertilizers (US\$/t)



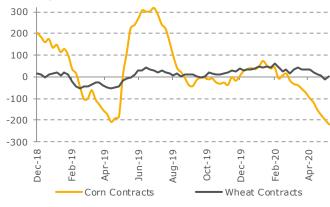
Prices of Sulfur, Potash & Phosphorites (US\$/t)



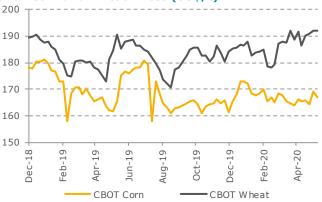
Fertilizer-to-Crop Price Ratios



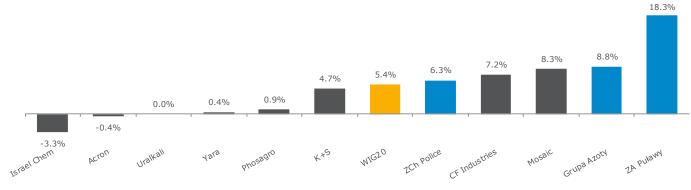
CBOT Open Positions In Corn and Wheat CBT



CBOT Corn and Wheat Prices (US\$/t)



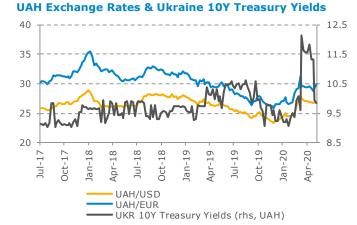
Weekly Returns of Fertilizer Stocks



Agricultural Commodities

Sugar Prices (US\$/Mt)





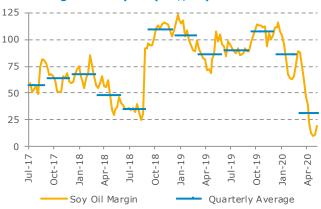
Wheat Prices (US\$/Mt)



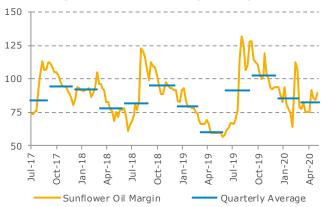
Corn Prices (US\$/Mt)



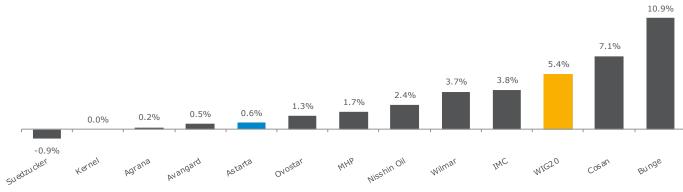
Model Margins on Soy Oil (US\$/Mt)



Model Margins on Sunflower Oil (US\$/Mt)



Weekly Returns of Agricultural Stocks





Comparison of Utility Company Valuations

		EV	/EBITD	4		EV/S			P/E		EBIT	TDA Mar	gin		DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
UTILITIES																
CEZ	484.0	7.0	6.7	7.4	2.1	1.9	2.0	18.1	12.0	16.8	29%	29%	27%	4.9%	7.0%	7.5%
Enea	6.2	2.9	2.9	2.6	0.6	0.5	0.6	2.6	2.5	2.0	20%	18%	21%	0.0%	0.0%	3.9%
Energa	8.0	3.8	4.4	4.6	0.7	0.7	0.8	6.2	6.0	5.4	19%	17%	17%	0.0%	0.0%	0.0%
PGE	5.3	3.0	3.4	2.5	0.6	0.5	0.5	-	7.2	3.4	19%	15%	21%	0.0%	0.0%	3.5%
Tauron	1.3	4.5	4.9	4.3	0.8	0.8	0.8	-	3.4	1.9	18%	17%	19%	0.0%	0.0%	0.0%
ZE PAK*	8.1	-	0.6	0.5	0.0	0.0	0.1	-	10.8	4.0	-	8%	11%	-	-	3.1%
EDF	8.1	4.9	4.8	4.4	1.0	1.0	1.0	5.4	18.9	14.0	21%	22%	23%	4.1%	2.5%	3.4%
EDP	4.2	9.3	9.4	9.3	2.3	2.2	2.2	30.0	18.8	17.7	25%	23%	24%	4.5%	4.5%	4.6%
Endesa	21.7	7.6	7.5	7.3	1.5	1.5	1.4	100+	13.8	13.6	20%	19%	20%	6.6%	7.2%	6.0%
Enel	7.0	8.2	7.5	7.2	1.7	1.7	1.6	33.3	14.0	13.0	21%	22%	23%	4.7%	5.1%	5.4%
EON	9.6	17.0	8.1	7.8	1.4	0.9	0.9	14.1	15.4	13.7	8%	11%	11%	4.8%	4.9%	5.1%
Fortum	17.3	15.0	10.1	9.3	4.6	0.7	0.6	10.1	11.4	12.5	30%	7%	7%	6.4%	6.3%	6.3%
Iberdola	9.7	10.6	10.3	9.7	3.0	2.9	2.8	18.0	17.4	16.2	29%	28%	28%	3.8%	4.3%	4.5%
National Grid	9.3	13.5	11.5	10.9	4.0	3.9	3.8	20.8	15.7	15.3	30%	34%	35%	5.0%	5.3%	5.4%
Red Electrica	16.0	10.0	10.3	10.2	8.0	7.9	8.0	12.0	13.1	13.2	80%	77%	78%	6.1%	6.5%	6.4%
RWE	30.3	12.2	7.4	6.6	1.6	1.4	1.4	2.2	18.4	15.3	13%	19%	21%	2.6%	2.8%	3.0%
SSE	12.5	10.4	12.1	11.5	0.9	2.9	3.0	9.1	15.1	13.8	9%	24%	26%	7.8%	6.2%	6.4%
Verbund	40.0	13.0	13.0	12.9	4.1	4.3	4.3	25.0	25.3	25.1	32%	33%	33%	1.7%	1.8%	1.9%
Median	, and the second	9.3	7.5	7.4	1.5	1.4	1.4	13.1	13.9	13.6	21%	21%	22%	4.5%	4.5%	4.6%

Comparison of Gas & Oil Company Valuations

		EV	/EBITD	A		EV/S			P/E		EBI	TDA Mar	gin		DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
OIL REFINERS																
Lotos	60.12	4.9	26.3	4.8	0.5	0.8	0.7	9.6	-	8.5	10%	3%	15%	5.0%	3.3%	5.0%
MOL	1970.00	3.4	8.5	5.4	0.4	1.0	0.9	6.6	-	12.3	13%	12%	17%	7.2%	0.0%	3.5%
PKN Orlen	67.70	4.0	8.8	4.7	0.3	0.6	0.6	6.7	-	9.9	8%	7%	12%	5.2%	4.4%	4.4%
Hellenic Petroleum	6.32	7.1	8.5	6.4	0.5	0.7	0.6	11.9	13.0	6.5	7%	8%	9%	7.9%	5.5%	6.6%
HollyFrontier	31.14	4.0	11.5	6.5	0.4	0.7	0.5	6.7	100+	13.9	11%	6%	8%	4.3%	4.5%	4.6%
Marathon Petroleum	36.50	6.4	11.8	7.4	0.5	0.7	0.6	9.1	-	15.4	8%	6%	8%	5.8%	6.4%	6.8%
Motor Oil	15.63	4.4	6.6	4.5	0.2	0.3	0.3	7.7	15.9	8.3	5%	5%	7%	7.4%	5.9%	7.1%
Neste Oil	35.86	9.9	15.1	12.7	1.7	2.5	2.1	15.4	23.2	20.2	18%	17%	17%	2.6%	2.6%	2.8%
OMV	29.72	3.8	5.4	3.9	0.9	1.2	1.0	5.8	15.5	7.9	22%	22%	24%	6.7%	6.8%	6.9%
Phillips 66	78.83	11.4	14.3	7.7	0.4	0.7	0.6	11.6	30.9	12.1	4%	5%	7%	4.4%	4.6%	4.9%
Saras	0.81	4.3	4.5	3.4	0.1	0.2	0.2	29.2	47.8	11.0	3%	4%	4%	9.8%	5.3%	4.7%
Tupras	88.80	9.0	10.1	5.8	0.4	0.6	0.4	42.3	67.8	8.2	4%	6%	7%	-	8.1%	11.6%
Valero Energy	66.58	6.0	19.3	7.5	0.4	0.8	0.5	11.4	-	16.2	6%	4%	7%	5.4%	5.9%	6.0%
Median		4.9	10.1	5.8	0.4	0.7	0.6	9.6	23.2	11.0	8%	6%	8%	5.6%	5.3%	5.0%

Comparison of Petrochemical Company Valuations

		EV	//EBITD	A		EV/S			P/E		EBIT	DA Mar	gin		DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
PETROCHEMICALS																
PKN Orlen	67.70	4.0	8.8	4.7	0.3	0.6	0.6	6.7	-	9.9	8%	7%	12%	5.2%	4.4%	4.4%
Axiall	48.20	6.7	8.7	7.8	1.2	1.4	1.3	14.8	34.9	22.0	18%	16%	17%	2.1%	2.2%	2.3%
Braskem	27.92	15.5	6.9	6.1	1.1	1.0	0.9	-	-	23.3	7%	15%	15%	9.0%	0.1%	0.6%
Eastman Chemical	68.56	8.4	8.8	8.1	1.6	1.9	1.7	12.4	11.6	9.9	19%	21%	22%	3.7%	3.8%	4.1%
Huntsman Corp	18.43	6.6	11.4	7.1	0.8	0.9	0.8	7.5	50.9	13.4	12%	8%	11%	3.5%	3.5%	3.7%
Lotte Chemicals	189,500	4.0	5.3	3.8	0.5	0.6	0.5	9.1	15.4	8.4	12%	11%	14%	3.5%	3.0%	3.7%
LyondellBasell	65.34	6.0	9.3	7.2	1.0	1.4	1.2	6.8	13.8	8.8	17%	15%	17%	6.4%	6.5%	6.6%
Mitsubishi Chemical	640.20	6.8	7.6	8.1	0.8	0.9	0.9	5.4	12.3	15.4	12%	12%	12%	6.2%	5.9%	5.2%
Mitsui Chemicals	2220.00	6.6	7.5	8.8	0.6	0.7	0.8	5.8	9.5	13.6	10%	9%	9%	4.5%	4.5%	4.1%
Westlake Chemical	48.20	6.7	8.7	7.8	1.2	1.4	1.3	14.8	34.9	22.0	18%	16%	17%	2.1%	2.2%	2.3%
Median		6.6	8.7	7.5	0.9	1.0	0.9	7.5	14.6	13.5	12%	13%	15%	4.1%	3.7%	3.9%

 $Source: \ mBank \ for \ Polish \ companies, \ Bloomberg \ for \ foreign \ firms \ and \ companies \ marked \ with \ an \ asterisk$

Comparison of NatGas Company Valuations

		EV/EBITDA				EV/S			P/E		EBIT	TDA Mar	gin		DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
GAS COMPANIES																
PGNiG	4.29	5.2	4.9	4.1	0.7	0.8	0.8	18.1	13.9	9.6	13%	16%	20%	2.6%	2.2%	2.9%
A2A	1.26	6.4	6.6	6.4	1.0	1.1	1.1	10.1	13.6	13.3	16%	17%	17%	6.1%	6.3%	6.5%
BG Group	12.91	4.0	6.5	4.9	0.6	0.9	0.7	8.4	39.8	12.5	15%	13%	14%	11.4%	4.3%	4.4%
BP	3.11	5.7	7.0	5.3	0.5	0.8	0.6	20.0	100+	10.1	9%	11%	12%	10.3%	9.9%	9.7%
Centrica	0.38	4.5	3.8	3.8	0.2	0.3	0.3	-	8.8	6.0	5%	7%	7%	13.2%	5.0%	6.3%
Enagas	20.92	11.3	9.4	9.7	7.7	7.9	8.4	11.8	12.4	12.2	69%	84%	87%	7.4%	8.0%	8.1%
Endesa	21.70	7.6	7.5	7.3	1.5	1.5	1.4	100+	13.8	13.6	20%	19%	20%	6.6%	7.2%	6.0%
Engie	10.65	7.4	6.0	5.5	0.9	1.0	0.9	31.3	12.6	9.9	13%	16%	17%	7.5%	6.4%	7.4%
Eni	8.34	3.4	5.4	4.0	0.7	0.9	0.8	100+	-	21.7	21%	17%	20%	10.3%	8.9%	8.9%
Equinor	141.15	3.6	4.7	3.4	1.1	1.4	1.2	29.2	100+	17.7	29%	29%	35%	1.7%	3.6%	4.6%
Gas Natural SDG	16.52	7.6	8.2	7.7	1.5	1.6	1.5	11.6	13.5	11.8	20%	19%	19%	8.1%	8.7%	9.1%
Gazprom	198.72	4.2	5.2	4.3	1.0	1.1	1.0	3.7	9.2	5.5	23%	22%	23%	7.7%	4.9%	8.2%
Hera	3.45	9.0	7.8	7.6	1.2	1.2	1.2	13.2	17.1	16.3	13%	15%	15%	2.9%	3.1%	3.2%
NovaTek	148.90	3.2	14.3	11.5	3.4	4.2	3.7	3.2	16.2	12.5	105%	30%	32%	3.2%	3.1%	5.6%
ROMGAZ	30.50	5.6	4.4	4.4	2.0	2.1	2.1	10.8	8.8	9.5	35%	49%	47%	5.3%	10.4%	9.6%
Shell	14.68	3.9	6.5	4.9	0.6	0.9	0.7	8.3	40.6	12.7	15%	13%	14%	11.4%	4.3%	4.3%
Snam	4.30	12.3	12.3	11.9	10.1	9.9	9.7	13.0	13.2	12.6	82%	81%	81%	5.5%	5.9%	6.1%
Total	34.55	4.4	7.2	5.4	0.8	1.0	0.9	8.9	31.0	14.8	19%	14%	16%	7.8%	7.7%	7.8%
Median		5.4	6.6	5.4	1.0	1.1	1.0	11.6	13.6	12.5	19%	17%	19%	7.5%	6.1%	6.4%

Comparison of E&P Company Valuations

		EV/EBITDA				EV/S			P/E		EBIT	DA Mar	gin		DY		
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	
E&P COMPANIES																	
MOL	1970.00	4.2	4.8	3.8	0.5	0.6	0.5	6.2	19.8	6.7	12%	13%	14%	-	5.2%	5.8%	
Bashneft	1823.50	2.5	1.8	1.5	0.5	0.4	0.4	3.7	2.5	2.0	20%	24%	25%	-	14.1%	15.3%	
BP	3.11	5.7	7.0	5.3	0.5	0.8	0.6	20.0	100+	10.1	9%	11%	12%	10.3%	9.9%	9.7%	
Dana Gas	0.62	3.3	4.2	4.9	2.4	2.2	2.4	7.7	10.0	12.2	73%	52%	49%	32.6%	9.2%	8.9%	
Eni	8.34	3.4	5.4	4.0	0.7	0.9	0.8	100+	-	21.7	21%	17%	20%	10.3%	8.9%	8.9%	
Equinor	141.15	3.6	4.7	3.4	1.1	1.4	1.2	29.2	100+	17.7	29%	29%	35%	1.7%	3.6%	4.6%	
Gazprom Neft	337.50	3.9	6.2	4.7	1.0	1.3	1.1	4.0	7.6	5.7	25%	21%	23%	11.2%	100%+	8.8%	
Gulf Keystone	0.76	0.9	4.0	1.2	0.6	1.2	0.7	5.0	-	36.1	59%	31%	56%	-	-	-	
Lukoil	5318.00	3.0	4.7	3.8	0.5	0.7	0.6	5.5	13.3	8.9	16%	15%	15%	6.5%	6.7%	8.5%	
Occidental Petroleum	13.81	8.8	11.4	8.9	2.9	3.3	3.3	-	-	-	33%	29%	37%	22.7%	11.2%	6.0%	
Repsol	8.62	-	6.2	4.5	0.5	0.8	0.7	-	18.3	8.3	-	13%	15%	10.8%	11.2%	11.2%	
Rosneft Oil	378.70	4.3	6.7	4.9	0.9	1.5	1.2	5.7	25.0	7.1	22%	22%	24%	7.5%	2.8%	6.9%	
Shell	14.68	3.9	6.5	4.9	0.6	0.9	0.7	8.3	40.6	12.7	15%	13%	14%	11.4%	4.3%	4.3%	
Surgutneftegas	35.42	-	-	-	-	-	-	11.9	3.1	6.4	-	-	-	2.0%	10.5%	3.7%	
Total	34.55	4.4	7.2	5.4	0.8	1.0	0.9	8.9	31.0	14.8	19%	14%	16%	7.8%	7.7%	7.8%	
Tullow Oil	0.24	-	5.1	5.5	2.6	3.4	3.6	-	-	-	-	67%	66%	7.8%	-	-	
Median		3.9	5.4	4.7	0.7	1.0	0.8	6.9	15.8	9.5	21%	21%	23%	10.3%	8.9%	8.1%	

Comparison of Mining Company Valuations

		EV/EBITDA				EV/S			P/E		EBITDA Margin				DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
MINING COMPANIES																
JSW	17.50	0.6	4.7	3.0	0.1	0.4	0.3	3.3	-	-	22%	8%	11%	9.8%	0.0%	0.0%
KGHM	87.42	5.4	7.6	7.7	1.1	1.2	1.2	12.3	29.1	36.1	20%	16%	16%	0.0%	1.1%	0.9%
LW Bogdanka*	20.55	0.6	0.8	1.0	0.2	0.2	0.2	2.3	4.1	6.7	36%	30%	25%	-	6.8%	2.9%
Anglo American	16.99	4.2	4.8	4.2	1.3	1.5	1.3	7.7	12.1	9.2	30%	31%	32%	5.0%	3.5%	4.6%
Antofagasta	8.95	6.0	8.6	5.9	2.8	3.4	2.9	22.4	69.9	24.1	46%	40%	49%	3.0%	0.8%	2.3%
BHP Group	15.93	6.0	5.9	6.6	3.0	3.1	3.2	12.9	11.0	13.2	50%	52%	50%	6.5%	5.8%	4.9%
Freeport-McMoRan	9.34	11.8	14.8	5.7	2.1	2.5	1.8	-	-	10.2	18%	17%	32%	2.1%	0.5%	1.8%
Glencore	1.57	5.7	6.7	5.4	0.3	0.3	0.3	-	56.1	14.8	5%	5%	5%	10.0%	4.2%	6.9%
Grupo Mexico	49.84	5.6	6.5	5.5	2.8	2.8	2.4	9.0	22.8	11.9	51%	42%	44%	6.4%	4.4%	8.5%
Kazakhmys	4.90	4.8	6.1	5.5	2.5	3.0	2.7	5.2	9.2	7.7	52%	49%	50%	1.9%	1.2%	1.2%
Rio Tinto	43.77	6.4	5.7	6.1	2.4	2.7	2.7	11.4	11.1	12.3	37%	47%	44%	6.8%	5.7%	5.3%
Southern CC	36.85	9.5	13.6	10.4	4.7	5.6	4.7	19.2	32.5	20.5	50%	41%	45%	4.3%	3.1%	3.8%
Median		5.6	6.3	5.6	2.2	2.6	2.1	10.2	17.5	12.3	36%	35%	38%	5.0%	3.3%	3.3%
ALUMINUM PRODUCER	s															
Grupa Kęty	354.00	7.8	8.7	8.4	1.3	1.4	1.3	11.5	13.1	12.4	16%	16%	15%	6.8%	4.3%	6.1%
Alcoa	9.49	6.9	5.1	3.8	0.4	0.5	0.5	-	-	-	6%	10%	12%	-	-	-
Constellium	8.11	6.1	7.0	5.9	0.5	0.6	0.6	16.8	-	11.5	9%	9%	10%	-	-	-
Kaiser Aluminum	72.68	7.3	11.1	7.5	0.9	1.1	1.1	18.7	29.3	18.5	12%	10%	14%	3.3%	3.5%	4.0%
Norsk Hydro	24.68	7.1	5.5	4.5	0.5	0.5	0.5	-	26.0	12.9	7%	9%	10%	5.1%	5.1%	5.1%
Rusal	3.11	18.8	19.3	14.6	1.3	1.5	1.4	6.3	4.6	4.2	7%	8%	9%	-	1.5%	5.0%
Median		7.2	7.9	6.7	0.7	0.9	0.8	14.2	19.5	12.4	8%	9%	11%	5.1%	3.9%	5.0%

 $Source: \ mBank \ for \ Polish \ companies, \ Bloomberg \ for \ foreign \ firms \ and \ companies \ marked \ with \ an \ asterisk$



Comparison of Fertilizer Company Valuations

	EV/EBITDA				EV/S		P/E EE			EBIT	EBITDA Margin					
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
FERTILIZER PRODUCE	RS															
Grupa Azoty	33.55	4.8	6.3	9.3	0.6	0.8	0.9	8.9	15.7	-	13%	13%	9%	0.0%	0.0%	0.0%
ZA Police*	11.90	9.6	16.5	9.2	0.7	0.8	0.7	18.0	-	-	7%	5%	8%	-	-	-
Acron	6172.00	10.5	10.1	8.5	3.2	3.1	2.7	10.0	16.3	11.2	31%	31%	32%	6.4%	5.9%	5.7%
CF Industries	29.59	6.6	9.2	9.1	2.8	3.1	3.0	13.2	20.1	17.2	43%	34%	33%	4.1%	4.1%	4.1%
Israel Chemicals	11.80	5.7	7.5	6.5	1.3	1.4	1.3	9.0	14.5	11.2	23%	18%	20%	5.7%	2.7%	4.4%
K+S	5.79	6.6	8.6	6.6	1.1	1.1	1.1	12.6	-	18.6	16%	13%	16%	2.6%	1.5%	2.5%
Phosagro	2802.00	6.8	7.0	6.1	2.1	2.1	1.9	7.4	12.6	7.1	30%	30%	32%	8.0%	5.6%	7.8%
The Mosaic Company	12.52	-	8.3	6.1	1.1	1.2	1.1	-	85.2	15.2	-	14%	18%	1.6%	1.5%	1.6%
Yara International	332.60	7.8	6.1	5.6	1.1	1.1	1.0	17.2	10.8	9.0	15%	18%	18%	3.4%	4.9%	6.2%
Median		6.7	8.3	6.6	1.1	1.2	1.1	11.3	15.7	11.2	20%	18%	18%	3.7%	3.4%	4.3%

Comparison of Agricultural Company Valuations

		EV/EBITDA				EV/S		P/E			EBITDA Margin				DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
AGRI PRODUCERS																
Astarta*	16.10	4.3	4.1	2.8	0.7	0.8	0.7	53.5	-	2.7	17%	19%	25%	-	-	5.7%
Kemel	42.00	4.6	6.1	5.4	0.4	0.5	0.4	5.1	7.0	6.3	9%	8%	8%	2.1%	2.3%	2.2%
Agrana Beteiligungs	17.40	10.7	8.4	-	0.7	0.7	-	42.4	21.5	-	6%	8%	-	5.7%	6.0%	-
Bunge Limited	39.22	-	9.7	8.3	0.3	0.3	0.3	-	14.4	9.8	-	3%	4%	5.1%	5.0%	5.3%
Cosan	68.29	11.4	6.3	5.5	2.6	0.5	0.5	11.1	18.7	13.2	23%	8%	8%	1.5%	2.1%	2.3%
MHP	6.00	4.7	4.2	-	1.0	1.0	-	2.9	-	-	21%	24%	-	12.5%	4.7%	-
Nisshin Oillio	3460.00	8.1	8.0	7.7	0.5	0.5	0.5	13.1	13.2	13.1	6%	6%	6%	2.3%	2.3%	2.3%
Suedzucker	13.45	-	11.3	7.5	0.8	0.8	0.7	-	-	16.0	-	7%	10%	1.5%	1.6%	2.1%
Wilmar Int.	3.92	11.8	11.8	10.8	0.8	0.7	0.6	14.1	14.5	13.0	7%	6%	6%	3.1%	3.1%	3.4%
Median		8.1	8.0	7.5	0.7	0.7	0.5	13.1	14.4	13.0	9%	8%	8%	2.7%	2.7%	2.3%

Source: mBank for Polish companies, Bloomberg for foreign firms and companies marked with an asterisk

List of abbreviations and ratios contained in the report:

List of abbreviations and ratios contained in the report:

EV – net debt + market value (EV = conomic value)

EBIT – Earnings Before Interest and Taxes

EBITDA = PERIT + Depreciation and Amortisation

PBA – Profit on Banking Activity

P/CE – price to earnings with amortisation

MC/S – market capitalisation to sales

EBIT/EV – operating profit to economic value

PJE – (Price/Earnings) – price divided by annual net profit per share

ROE – (Return on Equity) – annual net profit divided by average equity

PJBV – (Price/Book Value) – price divided by box value per share

Net debt – credits + debt papers + interest bearing loans – cash and cash equivalents

EBITDA margin – EBITDA/Sales

EBITDA margin - EBITDA/Sales

OVERWEIGHT (OW) – a rating which indicates that we expect a stock to outperform the broad market NEUTRAL (N) – a rating which indicates that we expect the stock to perform in line with the broad market UNDERWEIGHT (UW) – a rating which indicates that we expect the stock to underperform the broad market

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ACCUMULATE — we expect that the rate of return from an investment will range from 5% to 15%

HOLD — we expect that the rate of return from an investment will range from -5% to +5%

REDUCE — we expect that the rate of return from an investment will range from -5% to -15%

SELL — we expect that an investment will bear a loss greater than 15%

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(fluctuations together with market indices) as well as difficulty in the selection of the group of comparable comparable comparable of the valuation model.

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