

Tuesday, November 12, 2019 | weekly publication

# **Tuesday Espresso**

# **Weekly Commodity Roundup**

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#### **Utilities**

EEX year-ahead contracts continue on a gentle downward trajectory, trading just under EUR 46/MWh. At the same time, emission prices are seen to hold close to EUR 25/t while coal trades slightly lower than last week. Power contracts on the Polish market have decreased by PLN 4/MWh week on week, while at the same time the profit margin of a vertically-integrated coal-fired power plant has contracted by 2 zlotys to PLN 165/MWh. Prices of green certificates have climbed by 4 zloty to PLN 149/MWh. Global sentiment for utilities has worsened over the past week, but in Poland WIG-Energy stocks have had a better few days performance-wise thanks to strong third-quarter earnings, underpinned by expectations ahead of a post-election cabinet reshuffle.

#### Gas & Oil

Refining margins have shrunk to \$3/bbl during the past week, driven by tightening cracking margins on diesel and gasoline and increasing negative margins on HSFO. With the Urals/ Brent pricing differential still in the negative territory (-\$0.4/bbl), the outlook for oil refiners continues to worsen. This is accompanied by further deterioration in petrochemicals markets, reflected in margin shrinkage on olefins and polymers at respective annual rates of 27% and 20%. Prices of year-ahead natural gas contracts are currently hovering around EUR 16/t, and with EU storages still 98% full there is no sign of improvement in the near future.

#### Metals

In metals, market sentiment has dampened on the US's refusal to fully roll back tariffs on China, combined with downbeat data coming in from China, including a 5.8% drop in new car sales in October, the 15th month straight of falling sales, combined with a 5.1% decline to 661bn yuan in new bank loans for the month.

Speculative positions in copper have decreased to -23,000 from a low of -59,000, but we will probably see the price momentum fizzle soon with production stoppages in Chile not likely to curb supply by as much as anticipated. Prices of molybdenum are in a downward slide (-KGH).

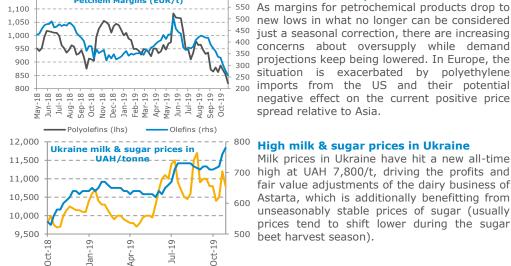
After 31 days of falls, zinc stocks on the LME have reached their lowest level since 1990 (+STP).

### **Coking Coal**

1.150

Steel inventories in China have dropped again from 9.2mmt a week ago to 8.7mmt versus a high of 12.7mmt. This is accompanied by a decline in coke stocks to 4.5mmt from 5mmt in mid-August. Coking coal prices have stabilized at \$134-140/t.

#### **Charts of the Week**



Milk (rhs)

Petchem Margins (EUR/t)

High milk & sugar prices in Ukraine

spread relative to Asia.

Bleak outlook for petrochemicals

new lows in what no longer can be considered

just a seasonal correction, there are increasing

concerns about oversupply while demand

projections keep being lowered. In Europe, the

situation is exacerbated by polyethylene

imports from the US and their potential

negative effect on the current positive price

Milk prices in Ukraine have hit a new all-time high at UAH 7,800/t, driving the profits and fair value adjustments of the dairy business of Astarta, which is additionally benefitting from unseasonably stable prices of sugar (usually prices tend to shift lower during the sugar beet harvest season).

# 1-Week & YTD Performance

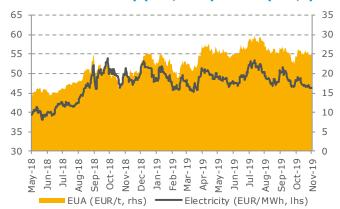
Company         1W         YTD           Tarczyński         -3.7%         -10%           Kernel         -3.1%         -14%           Boryszew         -2.9%         -11%           ZCh Police         -2.3%         -2%           Tupras         -1.0%         +26%           IMC         -1.0%         +26%           Lotos         -0.6%         +11%           CEZ         -0.6%         +2%           Impexmetal         -0.2%         +35%           O MV         -0.1%         +47%           O rzeł Biały         +0.0%         -1%           MO L         +0.5%         +3%           ZA Puławy         +0.7%         +38%           PKN Orlen         +1.1%         +1%           PC Rokita         +1.4%         -33%           LW Bogdanka         +1.7%         -27%           Grupa Azoty         +2.2%         +15%           ZE PAK         +2.7%         -8%           Kęty         +2.8%         +3%           Kruszwica         +4.7%         +26%           PGNiG         +6.3%         -26%           Ciech         +7.4%         -67%
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Chemicals +3.3% -4%
Energy +12.9% -8%
Oil & Gas +1.7% -3%
Food Industry -1.0% -11%
Basic Material +14.2% -9%
Ukraine +1.2% -10%
Sector Indices 1W YTD
Mining -1.6% +17%
Oil & Gas E&P +0.5% +3%
Refining EU -4.2% +11%
Refining US -1.2% +29%
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Sugar (lhs) Source: Bloomberg, Dom Maklerski mBanku

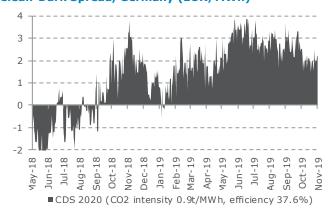


# **Utilities**

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



# Clean-Dark Spread, Germany (EUR/MWh)



#### Poland-Germany Power Price Spread (PLN/MWh)

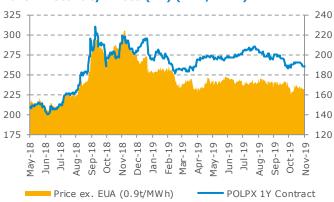


# **Weekly Returns of Utility Stocks**

# ARA Coal Spot and Forward Prices (EUR/t)

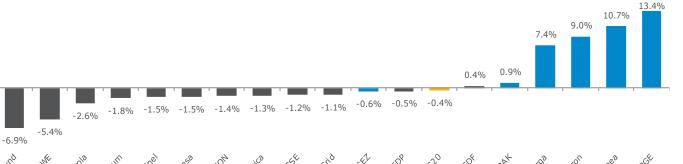


### Polish Electricity Prices (1Y) (PLN/MWh)



#### Polish Green Certificate Prices (PLN/MWh)





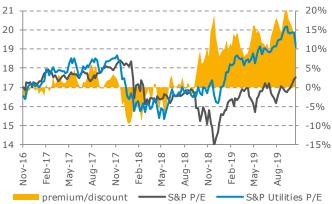
# mBank.pl

# **Utilities**

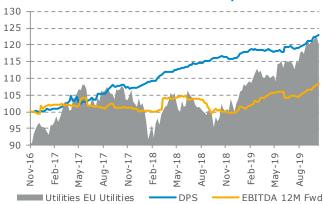
# **MSCI Utilities Europe vs. S&P Utilities**



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



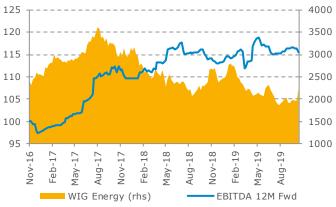
#### **MSCI Utilities EU vs. DPS & EBITDA Expectations**



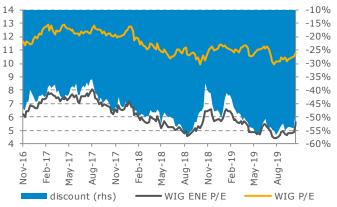
### **MSCI Utilities EU vs. WIG-ENERGY**



### WIG-ENERGY vs. EBITDA Expectations



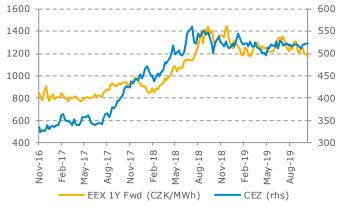
WIG-ENERGY vs. WIG P/E



# **PGE Performance vs. Power Prices ex. EUA**



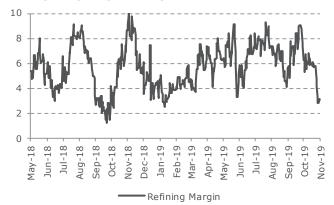
# **CEZ Performance vs. EEX Power Prices (CZK/MWh)**



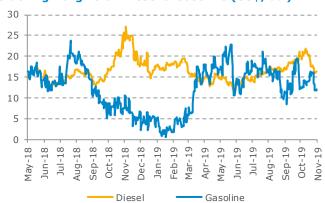


# Gas & Oil

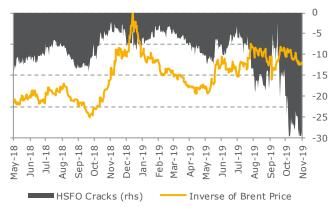
# Refining Margins (US\$/bbl)



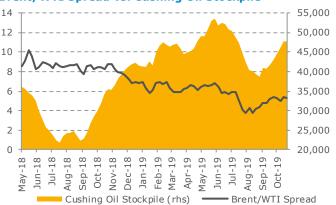
# Cracking Margins on Diesel & Gasoline (US\$/bbl)



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

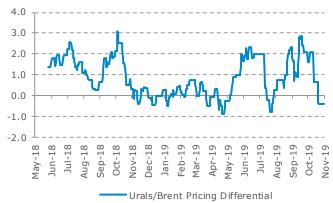


#### Brent/WTI Spread vs. Cushing Oil Stockpile

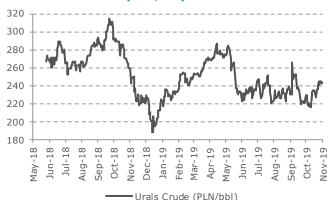


Source: Bloomberg, Dom Maklerski mBanku

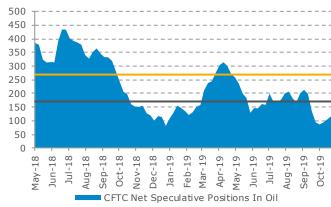
# **Urals/Brent Pricing Differential (US\$/bbl)**



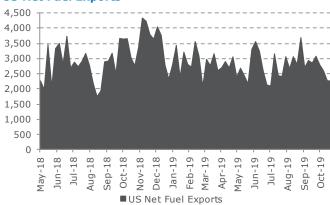
#### Price of Urals Crude (PLN/bbl)



#### **CFTC Net Speculative Positions In Oil**



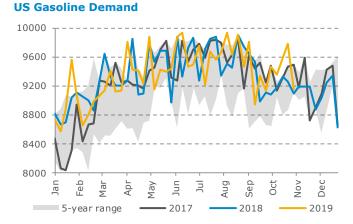
#### **US Net Fuel Exports**



# Gas & Oil

# **Diesel Inventories @ARA**

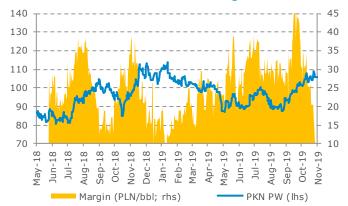




#### Global Refinery Outages (mbbl/d)



### **PKN Performance vs. Benchmark Margins**



Source: Bloomberg, Dom Maklerski mBanku

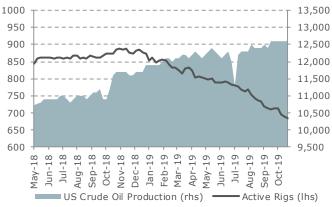
### **US Refinery Utilization Rates**



# **US Gasoline Inventories**



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



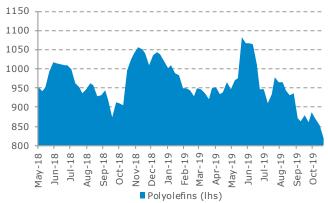
#### **Normalized Oil Stock Chart**



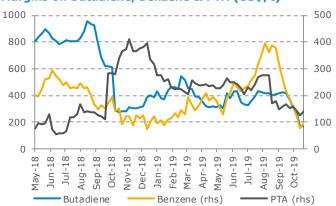


# **Petrochemicals & NatGas**

# **Margins on Polyolefins**



### Margins on Butadiene, Benzene & PTA (US\$/t)



### **Estimated Costs of Imported Natural Gas (PLN/MWh)**

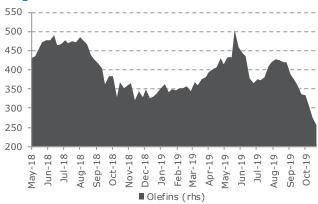


# NCG Prices, POLPX vs. Benchmarks (PLN/MWh)

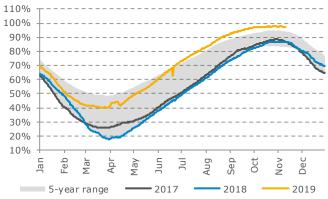


Source: Bloomberg, Dom Maklerski mBanku

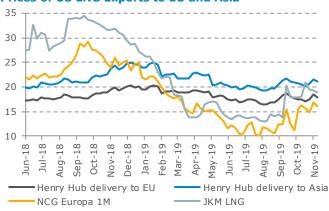
#### **Margins on Olefins**



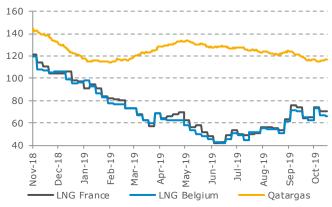
### **EU Gas Storage Levels (% Full)**



# **Prices of US LNG Exports to EU and Asia**

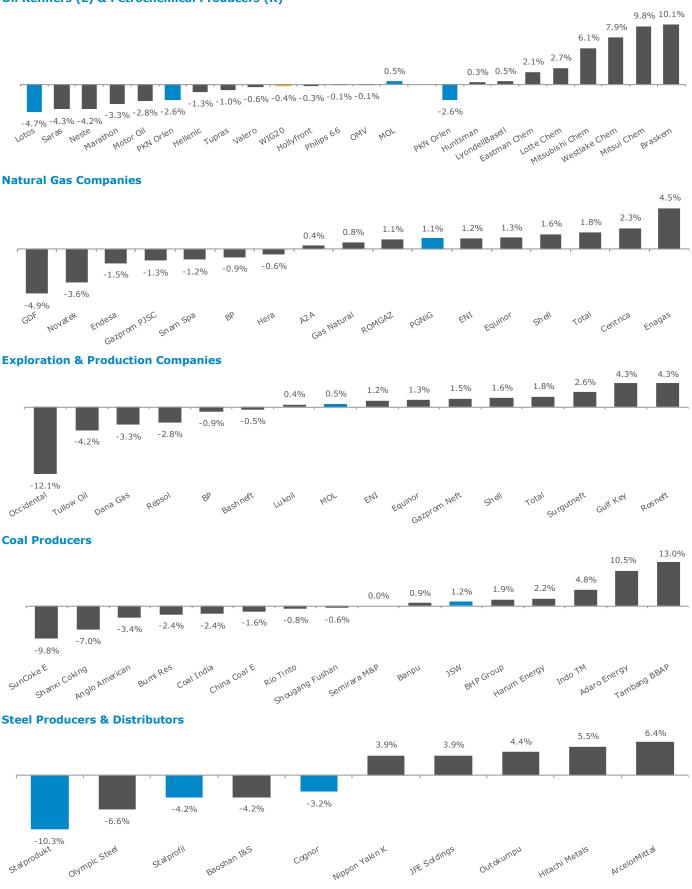


# **LNG Spot Rates vs. Estimated Qatargas rates**



# **Weekly Performance Charts**

Oil Refiners (L) & Petrochemical Producers (R)





# **Copper Charts**

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



# **Physical Copper Premiums (PLN/t)**



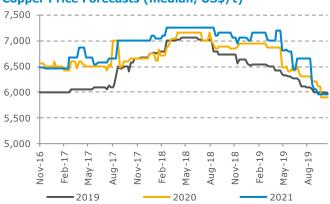
#### Silver prices (PLN/kg)



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



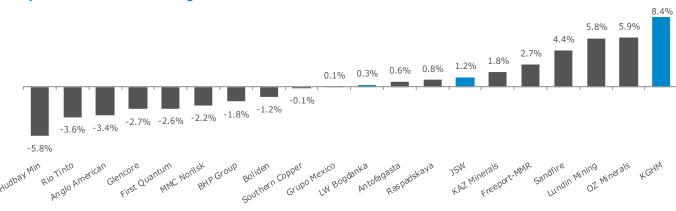
#### Copper Price Forecasts (median; US\$/t)



#### Prices of gold (PLN/oz)



# **Weekly Returns of Metal & Mining Stocks**

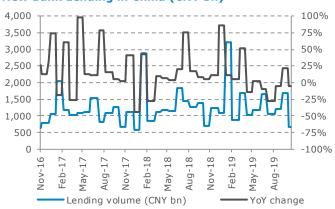


# **More Copper Charts**

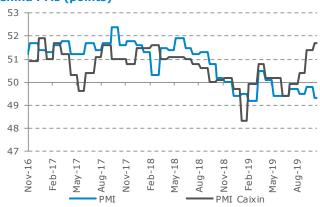
# Prices of molybdenum (PLN/10 kg)



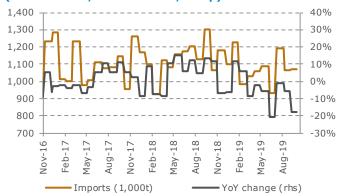
#### New Bank Lending in China (CNY bn)



# China PMI (points)

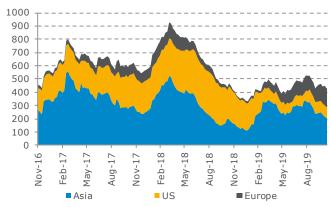


# Chine Copper Imports (concentrates, refined metal, scrap)

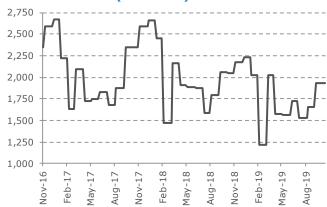


Source: Bloomberg, Dom Maklerski mBanku

#### **Global Copper Inventories (1,000t)**



### Car Sales in China (thousands)



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



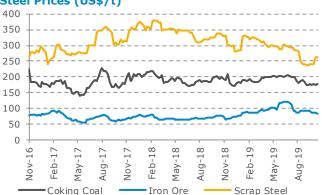
# Metal Price Index (pts, rhs) vs. Net Speculative Positions (million contracts, lhs)



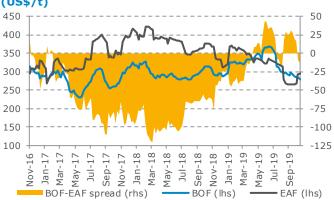


# **Steel Charts**

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



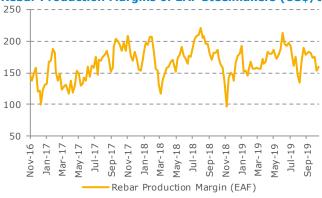
# Production Costs of BOF vs. EAF Steel Producers (US\$/t)



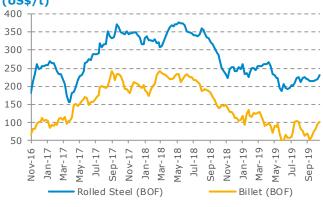
# Prices of Steel Rebar & Hot-Rolled Steel (US\$/t)



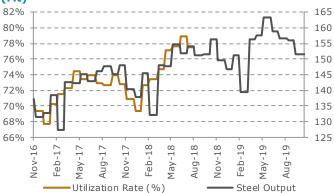
# Rebar Production Margins of EAF Steelmakers (US\$/t)



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



Global Steel Plant Capacity Utilization Rates & Output (Mt)



# China Steel PMI (pts)

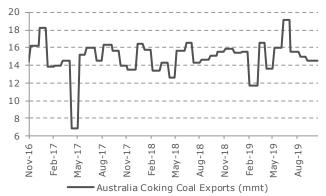


China Steel PMI New Orders & Backlog Orders (pts)

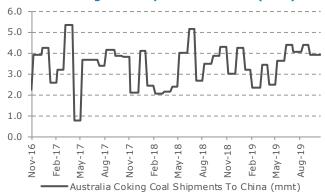


# **More Steel Charts**

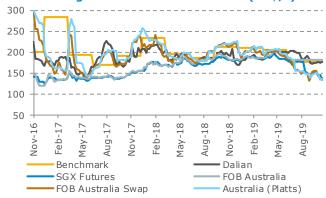
#### **Australia Coking Coal Exports (mmt)**



# **Australia Coking Coal Shipments To China (mmt)**



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

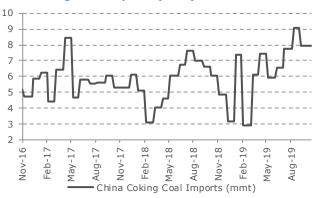


# Coking Coal-Coke Price Spread (US\$/t)

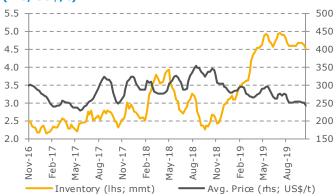


Source: Bloomberg, Dom Maklerski mBanku

# **China Coking Coal Imports (mmt)**



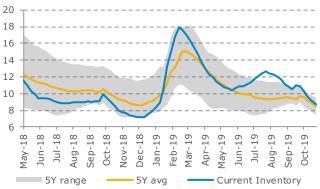
# China Coke Inventories (lhs; mmt) & Average Prices (rhs; US\$/t)



# China Coke Prices (US\$/t)



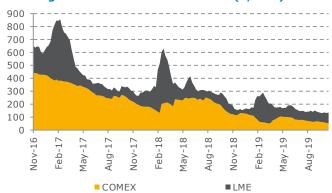
# **China Steel Inventory (mmt)**



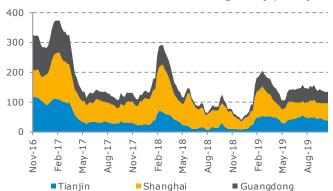


# **Zinc and Electrical Steel Charts**

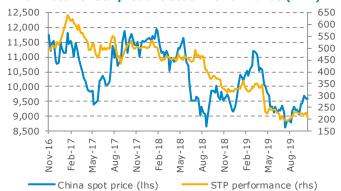
#### **Exchange-Monitored Zinc Inventories (1,000t)**



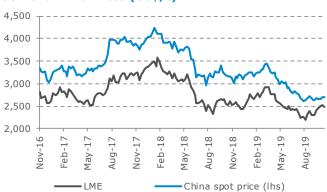
#### Zinc Inventories in Three Chinese Regions (1,000t)



#### Zinc Prices vs. Stalprodukt Stock Performance (PLN)



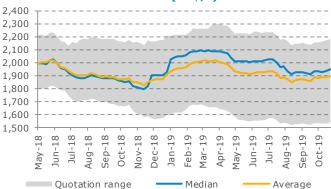
#### **US Dollar Zinc Prices (US\$/t)**



# Polish Zloty Zinc Prices (PLN/t)



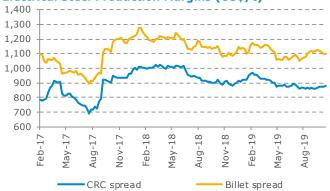
# **China Electrical Steel Prices (US\$/t)**



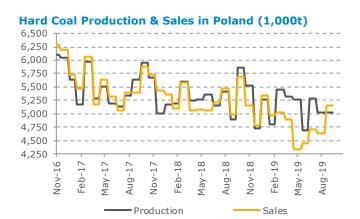
# Prices of Steel Billet & Cold Rolled Coil (US\$/t)

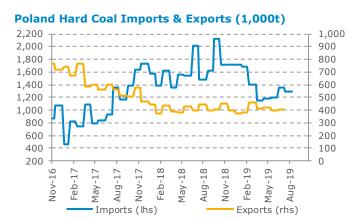


# **Electrical Steel Production Margins (US\$/t)**

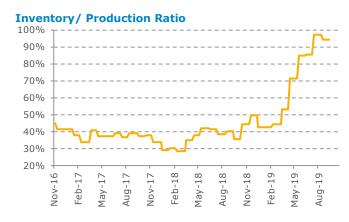


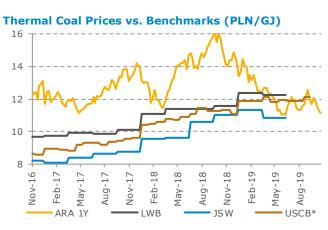
# **Thermal Coal Charts**

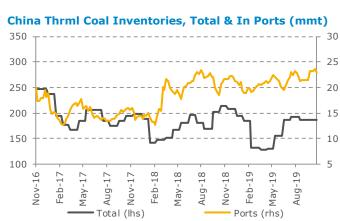


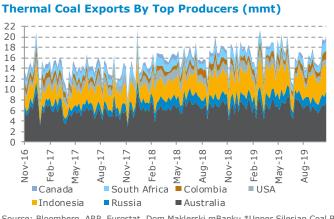


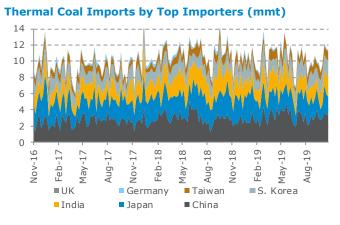












Source: Bloomberg, ARP, Eurostat, Dom Maklerski mBanku \*Upper Silesian Coal Basin

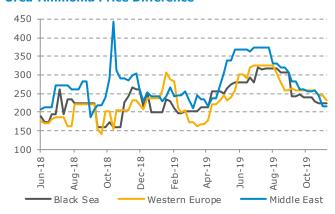


# **Fertilizer Charts**

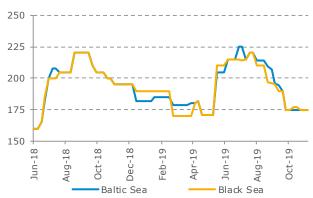
#### German NatGas Prices (US\$/MWh)



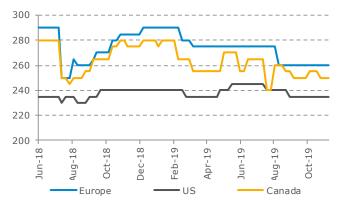
#### **Urea-Ammonia Price Difference**



#### **World Ammonium Nitrate Prices (US\$/t)**



# **World Ammonium Sulfate Prices (US\$/t)**



Source: Bloomberg, Dom Maklerski mBanku

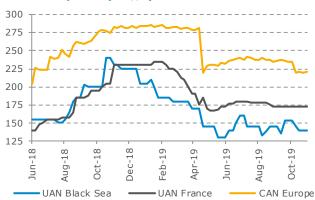
# World Ammonia Prices (US\$/t)



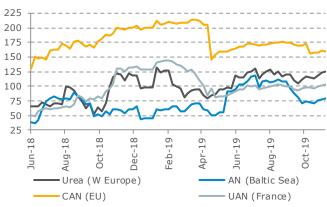
#### World Urea Prices (US\$/t)



#### CAN & UAN prices (US\$/t)

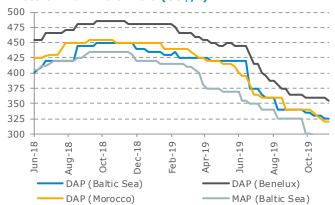


# **Production Margins On Nitrogen Fertilizers (US\$/t)**

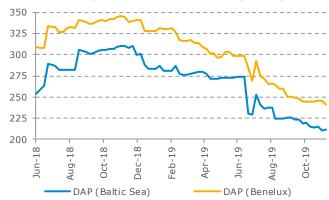


# **Fertilizer Charts**

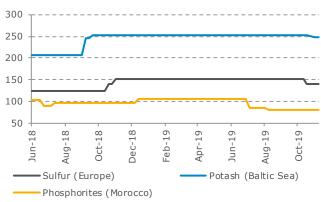
### Prices of P & K Fertilizers (US\$/t)



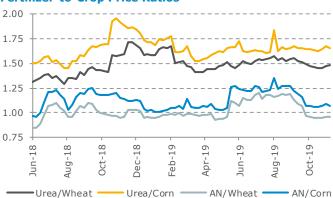
#### Production Margins on P & K Fertilizers (US\$/t)



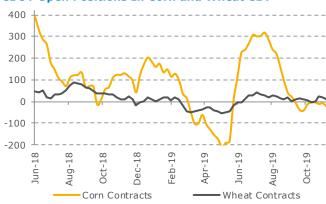
### Prices of Sulfur, Potash & Phosphorites (US\$/t)



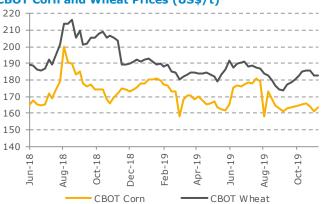
**Fertilizer-to-Crop Price Ratios** 



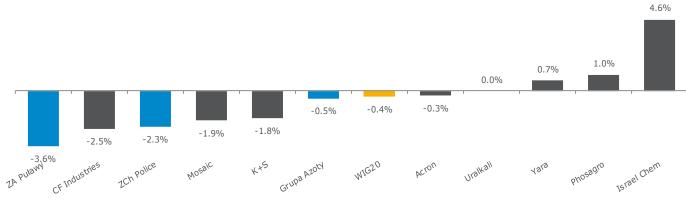
# **CBOT Open Positions In Corn and Wheat CBT**



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



# **Weekly Returns of Fertilizer Stocks**

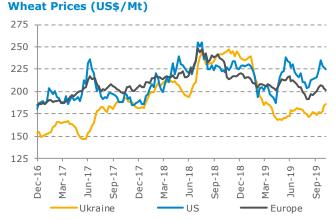




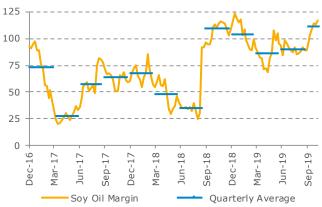
# **Agricultural Commodities**

# Sugar Prices (US\$/Mt)



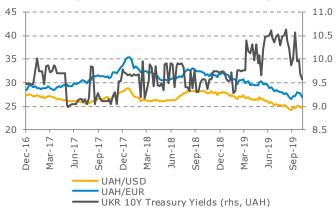


#### Model Margins on Soy Oil (US\$/Mt)



# **Weekly Returns of Agricultural Stocks**

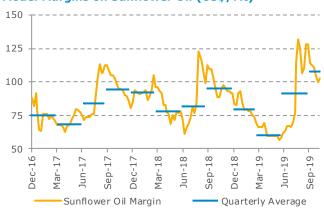
### **UAH Exchange Rates & Ukraine 10Y Treasury Yields**

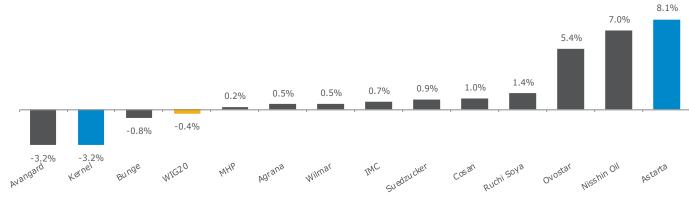


#### Corn Prices (US\$/Mt)



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





**Comparison of Utility 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
UTILITIES																
CEZ	522.0	7.5	6.9	6.8	2.1	1.9	1.8	15.6	13.5	13.6	29%	28%	27%	4.6%	5.8%	6.7%
Enea	9.5	3.4	3.3	3.0	0.7	0.6	0.6	4.0	3.9	3.0	20%	18%	21%	0.0%	0.0%	2.6%
Energa	6.7	3.6	4.1	4.4	0.7	0.7	0.8	5.2	5.0	4.6	19%	17%	17%	0.0%	0.0%	0.0%
PGE	9.5	3.6	4.1	3.2	0.8	0.7	0.7	6.4	8.2	5.2	21%	17%	22%	0.0%	3.9%	3.1%
Tauron	1.9	4.2	3.9	3.4	0.8	0.7	0.6	3.6	3.0	2.4	18%	17%	19%	0.0%	0.0%	0.0%
ZE PAK*	6.9	1.7	1.8	1.3	0.2	0.2	0.2	4.3	4.9	1.5	11%	11%	17%	-	7.1%	6.0%
EDF	9.2	4.1	3.8	3.7	0.9	0.9	0.9	13.5	11.2	10.9	23%	24%	24%	3.5%	4.2%	4.3%
EDP	3.7	9.2	8.8	8.5	2.0	2.0	2.0	16.8	15.3	14.2	22%	23%	24%	5.1%	5.2%	5.5%
Endesa	23.9	8.4	8.4	8.2	1.5	1.5	1.5	16.5	16.2	15.8	18%	18%	18%	6.0%	6.1%	5.2%
Enel	6.9	7.9	7.6	7.2	1.8	1.7	1.7	14.6	13.3	12.5	22%	23%	23%	4.8%	5.3%	5.7%
EON	8.8	6.3	4.6	4.5	1.0	0.5	0.5	13.2	14.2	12.9	16%	11%	11%	5.2%	5.4%	5.5%
Fortum	21.1	14.1	11.2	10.2	4.3	4.2	2.1	14.6	13.8	12.6	30%	37%	20%	5.2%	5.2%	5.3%
Iberdola	8.9	10.7	10.0	9.5	2.9	2.7	2.7	16.9	15.7	15.0	27%	27%	28%	4.3%	4.5%	4.8%
National Grid	8.9	12.9	10.8	10.2	3.8	3.7	3.6	19.9	15.1	14.4	30%	34%	35%	5.2%	5.5%	5.6%
Red Electrica	17.8	9.4	9.4	9.5	7.3	7.3	7.3	13.4	14.2	14.6	78%	78%	77%	5.9%	5.7%	5.6%
RWE	26.0	10.6	6.4	5.5	1.5	1.0	0.9	19.5	14.8	11.2	14%	15%	16%	3.1%	3.7%	4.3%
SSE	12.7	10.0	11.2	10.3	0.9	3.1	3.0	9.2	14.8	12.6	9%	27%	29%	7.7%	6.3%	6.5%
Verbund	44.9	14.6	12.3	11.7	5.1	4.7	4.4	27.6	21.7	20.4	35%	38%	38%	1.6%	2.1%	2.6%
Median		8.2	7.2	7.0	1.5	1.6	1.6	14.0	14.0	12.6	22%	23%	22%	4.6%	5.2%	5.2%

**Comparison of Gas & Oil Company Valuations** 

Companison of G	us a on				113											
		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
OIL REFINERS																
Lotos	94.80	7.3	6.2	5.3	0.7	0.7	0.6	14.4	13.3	12.1	10%	11%	12%	3.2%	2.1%	2.3%
MOL	3020.00	4.5	4.2	3.8	0.7	0.6	0.6	10.9	9.6	8.3	15%	15%	15%	4.7%	5.0%	5.2%
PKN Orlen	105.50	5.8	6.2	6.0	0.5	0.5	0.4	10.0	11.8	12.0	9%	8%	7%	3.3%	2.8%	2.8%
Hellenic Petroleum	8.48	6.6	5.2	5.6	0.5	0.5	0.5	11.2	6.7	7.0	7%	9%	8%	5.9%	6.3%	6.1%
HollyFrontier	54.13	6.3	6.2	6.8	0.7	0.7	0.7	10.5	10.0	11.3	11%	11%	10%	2.4%	2.5%	2.6%
Marathon Petroleum	65.71	8.5	6.7	6.8	0.7	0.6	0.6	14.9	8.7	10.2	8%	9%	9%	3.2%	3.6%	4.0%
Motor Oil	21.46	5.1	4.4	4.8	0.3	0.3	0.3	8.5	6.8	7.6	6%	7%	7%	6.2%	6.4%	6.7%
Neste Oil	31.59	11.9	11.3	10.5	1.6	1.7	1.6	19.9	17.4	15.9	13%	15%	15%	2.7%	3.0%	3.3%
OMV	54.00	4.9	4.6	4.5	1.2	1.2	1.2	10.0	9.6	9.1	25%	26%	27%	3.6%	4.0%	4.3%
Phillips 66	118.41	9.0	7.7	7.8	0.6	0.6	0.6	13.3	11.2	11.0	7%	8%	8%	2.9%	3.2%	3.5%
Saras	1.62	4.3	2.6	3.7	0.2	0.2	0.2	14.7	5.5	8.8	4%	7%	5%	4.2%	9.1%	5.6%
Tupras	127.00	7.5	4.7	5.0	0.4	0.4	0.4	14.7	6.0	5.9	6%	8%	8%	6.4%	14.5%	14.7%
Valero Energy	100.68	9.5	6.5	7.2	0.5	0.4	0.5	20.0	10.3	11.4	5%	7%	6%	3.6%	3.9%	4.1%
Median		6.6	6.2	5.6	0.6	0.6	0.6	13.3	9.6	10.2	8%	9%	8%	3.6%	3.9%	4.1%

Comparison of Petrochemical Company Valuations

		EV	//EBITD	A		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
PETROCHEMICALS																
PKN Orlen	105.50	5.8	6.2	6.0	0.5	0.5	0.4	10.0	11.8	12.0	9%	8%	7%	3.3%	2.8%	2.8%
Axiall	73.75	8.3	7.4	7.1	1.5	1.4	1.4	19.6	15.4	13.7	18%	19%	20%	1.4%	1.4%	1.6%
Braskem	31.40	6.4	6.0	5.3	1.0	1.0	0.9	24.4	25.0	19.7	16%	16%	17%	1.7%	0.8%	1.5%
Eastman Chemical	82.68	8.7	8.3	7.9	1.9	1.8	1.8	11.6	10.4	9.2	22%	22%	23%	2.9%	3.2%	3.6%
Huntsman Corp	23.49	8.6	8.7	8.0	1.1	1.1	1.1	13.3	12.1	10.3	12%	13%	13%	2.8%	2.9%	3.0%
Lotte Chemicals	226,000	4.9	4.6	4.2	0.6	0.6	0.6	8.2	7.1	6.5	12%	13%	14%	3.9%	4.2%	4.4%
LyondellBasell	97.19	7.6	7.0	6.8	1.3	1.2	1.2	9.5	8.3	7.9	17%	18%	18%	4.4%	4.6%	4.8%
Mitsubishi Chemical	877.10	7.5	7.2	6.9	0.9	0.9	0.9	7.4	8.9	8.5	12%	13%	13%	4.6%	4.5%	4.5%
Mitsui Chemicals	2801.00	7.0	7.1	6.7	0.7	0.7	0.7	7.3	9.7	8.5	10%	10%	10%	3.6%	3.6%	3.7%
Westlake Chemical	73.75	8.3	7.4	7.1	1.5	1.4	1.4	19.6	15.4	13.7	18%	19%	20%	1.4%	1.4%	1.6%
Median		7.6	7.2	6.9	1.0	1.0	1.0	10.8	11.1	9.7	14%	15%	15%	3.1%	3.1%	3.3%

Source: Dom Maklerski mBanku for Polish companies, Bloomberg for foreign firms and companies marked with an asterisk



**Comparison of NatGas Company Valuations** 

		EV	/EBITD	4		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
GAS COMPANIES																
PGNiG	5.00	5.4	4.2	3.7	0.8	0.7	0.7	15.0	9.8	8.7	14%	17%	18%	2.2%	2.7%	4.1%
A2A	1.80	7.8	7.3	7.0	1.4	1.4	1.3	16.7	15.2	14.3	18%	19%	19%	4.3%	4.4%	4.6%
BG Group	23.30	5.7	5.3	5.0	0.9	0.9	0.8	13.3	11.2	10.2	16%	17%	17%	6.3%	6.3%	6.4%
BP	5.07	5.2	4.9	4.8	0.7	0.7	0.7	13.2	11.7	11.0	13%	14%	14%	6.3%	6.4%	6.7%
Centrica	0.73	4.5	4.3	4.6	0.3	0.3	0.3	10.8	7.7	7.4	7%	7%	7%	6.8%	6.9%	6.9%
Enagas	22.97	9.9	9.9	10.6	8.2	8.3	9.1	12.7	12.1	12.7	82%	84%	86%	7.0%	7.2%	7.2%
Endesa	23.90	8.4	8.4	8.2	1.5	1.5	1.5	16.5	16.2	15.8	18%	18%	18%	6.0%	6.1%	5.2%
Engie	14.16	6.6	6.3	6.0	1.0	1.0	1.0	13.7	12.3	11.1	16%	16%	16%	5.5%	5.9%	6.4%
Eni	14.14	4.0	3.8	3.6	1.0	1.0	1.0	14.4	11.7	10.6	24%	25%	27%	6.1%	6.2%	6.4%
Equinor	178.20	3.3	2.9	2.7	1.1	1.0	1.0	13.0	10.9	9.9	34%	36%	37%	5.4%	5.7%	5.9%
Gas Natural SDG	24.10	9.4	9.0	8.8	1.6	1.5	1.6	17.6	16.1	15.4	17%	17%	18%	5.7%	6.0%	6.3%
Gazprom	260.40	3.9	3.8	3.6	1.1	1.1	1.0	4.2	4.6	4.3	28%	28%	28%	6.3%	7.1%	9.3%
Hera	3.83	8.2	7.8	7.6	1.4	1.3	1.3	18.8	18.2	18.2	17%	17%	17%	2.7%	2.9%	3.0%
NovaTek	211.80	13.4	12.9	13.1	4.8	4.7	4.3	9.5	14.0	12.4	36%	37%	33%	2.1%	2.6%	2.8%
ROMGAZ	37.40	5.6	5.6	5.3	2.7	2.6	2.6	9.8	9.8	9.2	49%	47%	48%	8.9%	8.9%	10.2%
Shell	27.20	5.6	5.2	4.9	0.9	0.9	0.8	13.3	11.2	10.2	16%	17%	17%	6.3%	6.3%	6.4%
Snam	4.59	12.6	12.3	12.0	10.2	10.0	9.7	14.3	14.2	13.6	81%	81%	81%	5.2%	5.5%	5.7%
Total	49.41	5.4	4.9	4.8	0.9	0.9	0.9	12.0	10.5	10.0	17%	18%	18%	5.5%	5.7%	6.1%
Median		5.7	5.4	5.1	1.1	1.1	1.0	13.3	11.7	10.8	18%	18%	18%	5.9%	6.1%	6.3%

**Comparison of E&P Company Valuations** 

Comparison of E	ar comp	any ve	aiuatic	ms												
		EV	//EBITD	A		EV/S			P/E		EBI	ΓDA Mar	gin		DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
<b>E&amp;P COMPANIES</b>																
MOL	3020.00	5.0	4.6	4.7	0.7	0.7	0.7	8.2	7.1	7.4	14%	15%	14%	4.4%	4.6%	5.0%
Bashneft	1943.00	2.0	2.0	1.7	0.5	0.5	0.4	3.0	2.9	2.4	24%	24%	25%	13.2%	11.7%	12.7%
BP	5.07	5.2	4.9	4.8	0.7	0.7	0.7	13.2	11.7	11.0	13%	14%	14%	6.3%	6.4%	6.7%
Dana Gas	0.89	6.8	6.3	-	3.3	3.1	2.9	24.1	12.2	12.2	49%	49%	-	6.6%	6.6%	7.9%
Eni	14.14	4.0	3.8	3.6	1.0	1.0	1.0	14.4	11.7	10.6	24%	25%	27%	6.1%	6.2%	6.4%
Equinor	178.20	3.3	2.9	2.7	1.1	1.0	1.0	13.0	10.9	9.9	34%	36%	37%	5.4%	5.7%	5.9%
Gazprom Neft	423.00	4.2	4.2	3.9	1.1	1.0	1.0	4.9	5.1	4.8	25%	25%	25%	8.3%	9.3%	10.5%
Gulf Keystone	2.20	3.2	2.0	1.5	1.9	1.3	1.0	12.5	7.1	5.7	59%	66%	70%	7.0%	5.0%	6.1%
Lukoil	6048.00	3.8	3.9	3.7	0.6	0.6	0.6	6.9	6.9	7.0	15%	16%	16%	5.3%	7.3%	7.7%
Occidental Petroleum	38.88	9.7	7.7	6.8	4.7	3.8	3.6	19.0	35.8	17.3	48%	50%	52%	8.0%	8.2%	8.3%
Repsol	15.03	5.0	4.4	4.4	0.7	0.7	0.7	9.9	8.0	8.0	15%	16%	16%	6.4%	6.7%	6.8%
Rosneft Oil	453.00	4.3	4.1	3.8	1.0	1.0	1.0	6.9	5.7	5.4	24%	25%	25%	6.5%	8.2%	9.2%
Shell	27.20	5.6	5.2	4.9	0.9	0.9	0.8	13.3	11.2	10.2	16%	17%	17%	6.3%	6.3%	6.4%
Surgutneftegas	38.99	-	-	-	-	-	-	5.3	4.6	3.9	-	-	-	9.6%	5.9%	3.0%
Total	49.41	5.4	4.9	4.8	0.9	0.9	0.9	12.0	10.5	10.0	17%	18%	18%	5.5%	5.7%	6.1%
Tullow Oil	2.08	5.6	5.5	5.4	4.2	4.0	3.9	15.6	13.0	12.8	75%	71%	72%	2.8%	2.8%	3.0%
Median		5.0	4.4	4.2	1.0	1.0	1.0	12.3	9.3	9.0	24%	25%	25%	6.3%	6.3%	6.5%

**Comparison of Mining Company Valuations** 

		EV	//EBITD	4		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
MINING COMPANIES																
JSW	20.80	0.2	1.4	1.1	0.0	0.2	0.2	3.5	-	18.0	19%	12%	16%	8.2%	0.0%	0.0%
KGHM	96.40	4.4	4.7	4.3	1.0	1.0	0.9	8.0	9.8	9.1	23%	21%	22%	0.0%	1.6%	3.0%
LW Bogdanka*	36.80	1.3	1.4	1.6	0.5	0.5	0.5	4.3	5.3	6.6	36%	33%	31%	3.2%	4.7%	4.5%
Anglo American	20.10	4.2	4.5	4.7	1.5	1.5	1.5	8.7	9.6	10.4	35%	33%	31%	4.5%	4.1%	4.1%
Antofagasta	9.05	5.8	6.1	5.4	2.8	2.9	2.7	19.8	21.3	17.3	49%	47%	50%	2.4%	2.2%	2.8%
BHP Group	16.92	6.1	5.7	6.2	3.1	3.0	3.1	13.7	10.9	12.3	50%	53%	51%	6.1%	6.4%	6.0%
Freeport-McMoRan	11.09	13.0	8.8	5.1	2.2	2.1	1.8	100+	21.6	8.3	17%	24%	34%	1.8%	2.7%	3.2%
Glencore	2.46	6.7	5.8	5.4	0.4	0.4	0.4	17.3	12.3	9.8	5%	6%	7%	5.5%	5.1%	5.7%
Grupo Mexico	52.58	6.0	5.7	5.3	2.8	2.6	2.4	12.3	11.4	10.9	46%	45%	46%	5.0%	4.8%	7.5%
Kazakhmys	5.09	4.9	5.0	4.7	2.7	2.7	2.5	6.7	6.7	6.1	55%	53%	54%	1.5%	100%+	1.3%
Rio Tinto	41.40	4.8	5.4	6.1	2.3	2.5	2.6	8.3	9.7	11.7	49%	46%	43%	8.2%	6.7%	5.4%
Southern CC	38.08	10.0	9.7	9.0	4.9	4.7	4.4	19.0	18.4	17.0	49%	49%	49%	4.1%	3.8%	3.9%
Median		5.4	5.6	5.2	2.3	2.3	2.1	8.7	10.9	10.6	41%	39%	39%	4.3%	4.1%	4.0%
ALUMINUM PRODUCER	S															
Grupa Kęty	315.50	7.8	8.3	8.5	1.2	1.3	1.3	10.7	12.3	12.5	16%	15%	15%	7.6%	7.5%	6.1%
Alcoa	22.22	4.4	4.2	3.9	0.7	0.7	0.6	-	20.3	14.6	16%	16%	17%	-	0.1%	0.3%
Constellium	14.33	7.1	6.5	6.0	0.7	0.7	0.7	31.4	13.1	9.7	10%	10%	11%	-	-	-
Kaiser Aluminum	111.75	9.2	8.2	8.3	1.3	1.3	1.3	17.1	14.3	13.7	14%	15%	15%	2.1%	2.3%	2.3%
Norsk Hydro	35.00	8.0	5.6	4.8	0.6	0.6	0.6	40.2	15.3	11.3	8%	10%	12%	3.5%	3.6%	4.0%
Rusal	3.50	12.7	9.6	8.1	1.4	1.4	1.3	5.2	4.2	3.9	11%	14%	16%	1.8%	4.4%	5.4%
Median		7.9	7.4	7.0	1.0	1.0	1.0	17.1	13.7	11.9	13%	15%	15%	2.8%	3.6%	4.0%

Source: Dom Maklerski mBanku for Polish companies, Bloomberg for foreign firms and companies marked with an asterisk

**Comparison of Fertilizer Company Valuations** 

		EV	//EBITD	A		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
FERTILIZER PRODUCE	RS															
Grupa Azoty	35.82	4.3	7.9	8.3	0.6	0.7	0.8	6.7	30.5	18.6	13%	9%	9%	0.0%	0.0%	1.0%
ZA Police*	11.50	8.6	6.0	5.8	0.6	0.6	0.6	35.9	17.7	18.0	7%	10%	10%	-	-	-
Acron	4944.00	8.6	7.5	7.2	2.6	2.4	2.2	11.0	9.7	9.7	31%	32%	30%	6.6%	6.8%	7.2%
CF Industries	46.45	9.9	9.2	8.8	3.6	3.5	3.4	21.2	17.5	15.2	37%	38%	38%	2.6%	2.6%	2.7%
Israel Chemicals	16.37	6.7	6.5	6.3	1.5	1.5	1.4	11.3	10.5	9.9	23%	23%	23%	4.5%	4.7%	4.9%
K+S	12.95	8.0	6.9	6.3	1.4	1.3	1.3	15.6	11.3	9.0	17%	19%	20%	2.5%	3.5%	4.2%
Phosagro	2447.00	5.7	5.5	5.2	1.8	1.7	1.6	8.3	8.9	8.7	31%	31%	31%	7.4%	5.8%	5.8%
The Mosaic Company	20.93	8.4	6.8	5.8	1.4	1.3	1.3	31.7	14.1	10.0	16%	20%	22%	0.9%	1.0%	1.4%
Yara International	366.10	7.0	6.1	5.8	1.1	1.0	1.0	12.7	10.4	9.5	16%	17%	18%	4.3%	6.5%	5.5%
Median		8.0	6.8	6.3	1.4	1.3	1.3	12.7	11.3	9.9	17%	20%	22%	3.4%	4.1%	4.6%

# **Comparison of Agricultural 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
AGRI PRODUCERS																
Astarta*	19.45	4.5	3.3	3.4	0.8	0.8	0.7	40.2	3.7	2.3	18%	23%	21%	-	-	4.1%
Kemel	41.20	4.5	5.6	5.0	0.4	0.4	0.4	5.0	7.8	6.9	9%	7%	7%	2.2%	2.3%	3.1%
Agrana Beteiligungs	17.38	10.4	8.6	8.1	0.6	0.6	0.6	42.4	23.2	18.5	6%	7%	8%	5.8%	5.8%	5.8%
Bunge Limited	55.82	10.5	10.0	9.1	0.4	0.3	0.3	19.8	16.0	13.0	3%	3%	4%	3.6%	3.9%	4.3%
Cosan	60.59	5.1	4.9	4.5	0.4	0.4	0.4	13.6	12.5	12.3	8%	9%	9%	2.6%	3.1%	3.3%
MHP	8.56	5.2	4.9	4.5	1.2	1.2	1.1	5.9	6.3	4.7	23%	23%	24%	8.8%	8.8%	8.8%
Nisshin Oillio	4035.00	9.3	8.7	8.3	0.5	0.5	0.5	15.2	15.7	15.0	6%	6%	6%	2.0%	2.0%	2.0%
Suedzucker	13.11	-	11.1	6.8	0.7	0.7	0.7	-	-	15.8	-	6%	10%	1.5%	1.5%	2.1%
Wilmar Int.	3.83	14.5	13.2	12.5	0.8	0.8	0.7	15.8	13.6	12.8	6%	6%	6%	2.6%	2.8%	3.0%
Median		7.2	8.6	6.8	0.6	0.6	0.6	15.5	13.1	12.8	7%	7%	8%	2.6%	3.0%	3.3%

Source: Dom Maklerski mBanku for Polish companies, Bloomberg for foreign firms and companies marked with an asterisk



List of abbreviations and ratios contained in the report:

net debt + market value (EV – economic value – Earnings Before Interest and Taxes EBIT **EBITDA** – EBIT + Depreciation and Amortisation **PBA** – Profit on Banking Activity

P/CE - price to earnings with amortisation market capitalisation to sales EBIT/EV - operating profit to economic value

EBITJEV – operating profit to economic value

P/E = (Price/Eranings) – price divided by annual net profit per share

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

P/BV – (Price/Book Value) – price divided by book value per share

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

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

Recommendations of Dom Maklerski mBanku:

A recommendation is valid for a period of 9 months, unless a subsequent recommendation is issued BUY – we expect that the rate of return from an investment will be at least 15% 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% Recommendations are updated at least once every nine months.

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Relative – based on a comparison of valuation multipliers of companies from a given sector; simple in construction, reflects the current state of the market better than DCF; weak points include substantial variability (fluctuations together with market indices) as well as difficulty in the selection of the group of comparable companies.

Economic profits – discounting of future economic profits; the weak point is high sensitivity to changes in the assumptions made in the valuation model.

Discounted Dividends (DDM) – discounting of future dividends; the weak point is high sensitivity to changes in the assumptions as to future dividends made in the valuation model.

NAV – valuation based on equity value, one of the most frequently used method in case of developing companies; the weak point of the method is that it does not factor in future changes in revenue/profits of a company.

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