

Stock Market Update

Equity

Ukraine's domestic stock market saw a slight correction last week to put an end to its six-week winning streak. Although there was no particular selling trigger, traders pushed blue chip quotes lower on technical factors. In economic news, MinAgro reported that Ukraine has exported 13.5mn tonnes of grain since the beginning of the 2017/2018 agricultural year (July-June). The country's full-year 2017 grain harvest is expected at around 63mn tonnes, down from the record 66mn tonnes posted in 2016.

The UX index finished unchanged at 1255 points. Low-liquidity DonbasEnergo (DOEN) rose 1.4% to UAH 18.00 per share as market players expect the government will get rid of its remaining 25% in the company at an auction in December, setting a higher price benchmark for the stock. The company posted a net loss of 18 kopecks per share for 9M17. Motor Sich (MSICH) was in the plus column, climbing 1.0% to UAH 3065, while Raiffeisen Aval (BAVL) and CentrEnergo (CEEN) edged down by 0.4% and 0.5% respectively. UkrNafta (UNAF) was little-changed at UAH 142 after reporting a net loss of UAH 239mn for the third quarter.

In London, Ferrexpo (FXPO) saw a small upward correction of 0.9% to GBp 258 but remained in a local downward trend. MHP (MHPC) once again tested the USD 12 level for the first time in more than three years.

On the Warsaw Stock Exchange, Kernel (KER) disappointed, giving back most of the previous week's rebound on a 5.6% loss to PLN 48.60 that could not be explained by any public news flow. Agrotan (AGT) remained slightly above the PLN 4 mark amid a week of low activity.

The hryvnia remained in its autumn devaluation trajectory, losing 0.3% over the week and finishing barely inside the 27 UAH/USD psychological level; we expect this level to be defended by the NBU, as a further decline could result in speculative trouble for the currency.

Highlights

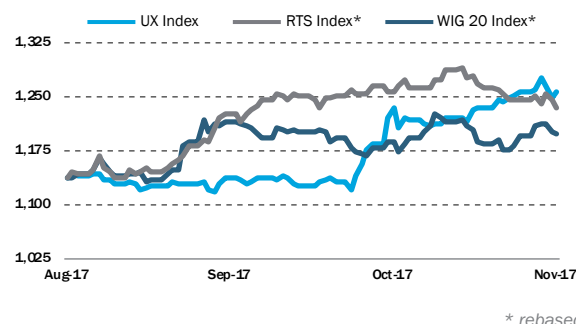
POLITICS AND ECONOMICS

- Ukraine Investigating Manafort's Role in Justice Ministry Embezzlement

STOCKS IN THE NEWS

- Raiffeisen Aval Beats Expectation with 3Q EPS of 2.1 Kopecks
- UkrNafta Reports 3Q Loss of UAH 239mn On Asset Writedowns

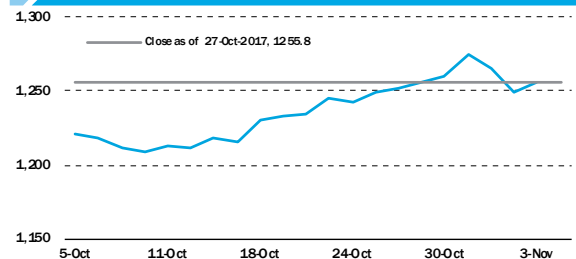
STOCK MARKET PERFORMANCE



MARKET INDEXES

	Last	1W ch	1M ch	YTD
UX	1255.3	0.0%	1.6%	57.7%
RTS	1109.4	-0.8%	-1.8%	-3.7%
WIG20	2494.5	0.2%	1.0%	28.1%
MSCI EM	1126.2	1.4%	2.7%	30.6%
S&P 500	2587.8	0.3%	2.1%	15.6%

UX 1M PERFORMANCE



FIXED INCOME

	Last	1W ch	1M ch	YTD
EMBI+Global	317	3.7%	3.5%	-13.3%
NBU Key Rate	13.5%	0.0 p.p.	1.0 p.p.	-0.5 p.p.
Ukraine-19	4.6%	-1.9 p.p.	-2.0 p.p.	-2.8 p.p.
Ukraine-27	7.2%	-0.2 p.p.	-0.1 p.p.	-1.5 p.p.
MHP-20	4.5%	-0.1 p.p.	-0.2 p.p.	-5.0 p.p.
UZ Rail-21	6.5%	0.0 p.p.	-0.5 p.p.	-5.3 p.p.

CURRENCY

	Last, UAH	1W ch	1M ch	YTD
USD	26.96	0.3%	0.9%	-1.3%
EUR	31.29	0.6%	-0.2%	10.6%
RUB	0.46	-1.1%	-1.0%	3.7%

COMMODITIES

	Last	1W ch	1M ch	YTD
Wheat, USD/t*	180.5	0.0%	0.0%	4.3%
Steel, USD/t	547.5	-0.9%	-8.4%	10.6%
Oil, USD/bbl	62.1	3.2%	11.3%	9.2%
Gold, USD/oz	1269.7	-0.3%	-0.2%	10.2%

*Ukraine FOB

Source: Bloomberg, Ukrainian Exchange

Ukraine Investigating Manafort's Role in Justice Ministry Embezzlement

by Will Ritter
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NEWS

The head of special investigations in Ukraine's General Prosecutor's Office (PGO), Serhiy Horbatiuk, told domestic media outlet Radio Svoboda last week that the PGO is investigating former Party of Regions political advisor Paul Manafort for siphoning more than USD 1mn from Ukraine's Justice Ministry. The funds were allegedly used to pay US law firm Skadden Arps for a report confirming the legality of corruption charges that put former prime minister and Party of Regions political opponent Yulia Tymoshenko in jail. Horbatiuk said the PGO has requested documents from the United States on the matter. Last Monday (Oct 30), Manafort was indicted by the US on charges of money laundering, fraud and tax evasion related to multi-million dollar income earned largely from his work in Ukraine between 2006 and 2014. Manafort served as campaign manager for the US presidential candidacy of eventual 2016 election winner Donald Trump.

COMMENTARY

Reading through the 31-page US indictment of Manafort, perhaps the most surprising thing is that there are really no surprises. For people familiar with Manafort's long tenure in Ukraine, none of the information presented in the indictment (which is full of specifics on how the cash was laundered) can really be classified as a bombshell. It was always widely known that Manafort was employed to advance the political interests of the Party of Regions and of President Victor Yanukovich and industrialist Rinat Akmetov in particular, and that Manafort was very well paid for this activity. As the indictment came down from the office of Special Prosecutor Robert Mueller, who is tasked with searching for illicit links between the Kremlin and the US presidential campaign of Donald Trump, it looks rather odd that Manafort is being charged with crimes which, although serious, appear completely unrelated to Mueller's mandate. In our view, it is unconvincing to try to equate Manafort's working for Yanukovich and Akmetov with his working for the Kremlin in a so-called "pro-Russian" capacity; in fact, Manafort was urging Yanukovich to sign Ukraine's Association Agreement with the European Union, implying that Manafort was operating directly against the interests of the Russian government. Based on the contents of the indictment, we have to assume that Mueller believes either 1) that Manafort is holding some as-yet-unrevealed information tying Donald Trump to the Kremlin, or 2) that his own mandate is simply broad enough to include tax evasion and money laundering prosecutions. In Kyiv, the latest PGO announcement on Manafort and the Justice Ministry case looks more like "piling on" than any sudden change in Ukraine's prosecutorial pursuit of past corrupt activities. Indeed, the Manafort story was not the biggest corruption story of the week in Ukraine, or even the second biggest; he was overshadowed by news that the son of Interior Minister Arseniy Avakov was arrested on charges of inflating the value of a contract for police backpacks, and also by the extradition from Panama of the Yanukovich era's top official overseeing foreign investments.

Raiffeisen Aval Beats Expectation with 3Q EPS of 2.1 Kopecks

by Dmitry Churin
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RAIFFEISEN BANK AVAL (BAVL UK)

Price: UAH 0.290 Market Cap: USD 664mn

	P/Assets	P/Book	P/E	Div. Yield
2016	0.31	1.7	4.4	20%
2017E	0.32	1.9	3.5	22%

NEWS

Raiffeisen Bank Aval, the Ukrainian subsidiary of Vienna-based Raiffeisen International, reported a net profit of UAH 1.29bn (USD 48mn) for 3Q17 (+21% YoY), representing earnings per share of 2.11 kopecks, according to financials published on Oct 31. The bank's year-to-date net profit (through 9M17) rose by 60% YoY to UAH 4.03bn (EPS of 6.56 kopecks). Raiffeisen Aval's gross interest income was up 5.3% YoY to UAH 5.19bn and its net interest income increased by 17% YoY to UAH 4.22bn in 9M17.

On the balance sheet side, the bank's loan portfolio grew 28% YtD to UAH 35.9bn and its total assets rose 12% YtD to UAH 62.6bn (USD 2.4bn).

COMMENTARY

Raiffeisen Aval beat our expectations for 3Q, posting EPS of 2.11 kopecks compared to our forecast of 1.70 kopecks. However, a notable share of net profit came from the accounting trick related to gains from a decrease in loan loss reserves. The bank had a gain of UAH 185mn from this item in the quarter, putting the line at a very significant UAH 1.2bn for 9M17.

We are raising our forecast for Raiffeisen Aval's net profit for FY17 from UAH 4.5bn to UAH 5.1bn, which implies 8.29 kopecks per share. Taking into account the bank's current share price near 29 kopecks, the P/E (price-earnings) multiple for the stock is 3.5x and the P/B (price-to-book) ratio is 1.9x. We reiterate our HOLD recommendation for the BAVL stock, as we believe the bank will pay out almost all of the FY17 profit in a 7.90 kopeck per share dividend next year.

UkrNafta Reports 3Q Loss of UAH 239mn On Asset Writedowns

by Dmitry Churin
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UKRNAFTA (UNAF UK)

Price: UAH 142 Market Cap: USD 287mn

	P/B	EV/S	P/E	EV/EBITDA	Div. Yield
2016	8.5	0.3	neg	2.3	n/a
2017E	1.7	0.3	3.9	1.8	n/a

NEWS

UkrNafta, Ukraine's largest oil producer, reported a net loss of UAH 239mn in 3Q17 compared to net profit of UAH 437mn in 3Q16, according to financials published on Oct 30. The company's net profit in 9M17 was UAH 1.09bn, rising 157% year-on-year. EBITDA jumped by 3.8x YoY to UAH 2.69bn in 9M17 on an increase in revenue by 30% YoY to UAH 19.9bn in the period. On the balance sheet side, UkrNafta reported no interest-bearing debt as of 30 Sept 2017, but acknowledged that its accrued tax debt rose by 5% YoY to UAH 12.8bn (USD 483mn).

UKRNAFTA FINANCIAL RESULTS

UAH mn	3Q17	3Q16	2Q17	QoQ	YoY	9M17	9M16	YoY
Net revenue	6,141	6,406	6,319	-2.8%	-4.1%	19,922	15,300	+30.2%
EBITDA	223	628	1,794	-87.6%	-64.5%	2,692	698	+285%
EBITDA margin	3.6%	9.8%	28.4%	-24.8 p.p.	-6.2 p.p.	13.5%	4.6%	+8.9 p.p.
Net Income	-239	437	1,265	+/-	+/-	1,097	427	+157%
Net margin	-3.9%	6.8%	20.0%	-23.9 p.p.	-10.7 p.p.	5.5%	2.8%	+2.7 p.p.

Source: Company data,

COMMENTARY

We suspect that UkrNafta's weak financial results for 3Q17 were due to asset writedowns related to unrecoverable receivables from oil sales prior to 2015. The company reported "other" (unspecified) operating expenses of UAH 2.04bn for 3Q17. UkrNafta's "other" operating expenses for 9M17 were UAH 6.29bn (UAH 7.84bn for 9M16).

On the operational side of UkrNafta's business, there was a continuation of the oil production decrease, with extraction declining by 9.2% YoY to 1.04mn tonnes (7.6 million barrels) in 9M17. In the natural gas segment, UkrNafta's production decreased by 12.9% YoY to 850mn cubic meters. In a sales breakdown in financial terms, oil sales brought 29.2% of the revenue in 9M17, petroleum products sales brought in 29.4%, and ammonia nitrate sales brought in 6.8%.

Although UkrNafta did not impress with its 3Q financials, we remain bullish on the UNAF stock. Our target price is unchanged at UAH 270 per share as we believe that the company will increase its revenue and profitability in the medium term.

The UNAF stock is quoted near UAH 142, with the latest earnings report having little visible impact on the price.

EAVEX RECOMMENDATIONS

Name	Ticker	Price, per share	Target price, per share	Upside, %	Rating	Commentary
Agriculture						
Kernel	KER PW	48.6	82.0	69%	BUY	With some 95% of its revenue linked to major foreign currencies, hryvnia devaluation is positive for Kernel, and recent changes in Ukraine's tax regime should also benefit the group. With on-demand borrowing access, Kernel is well placed to further consolidate its position in the oilseed crushing industry.
MHP	MHPC LI	11.4	14.0	23%	BUY	MHP could start process of deleveraging which in turn would boost the company's MCap. Also the company has a declared strategy to expand its presence on the MENA and EU markets. MHP continued to increase its export sales, which accounted for 51% of total revenue in 9M16 compared to 45% a year ago.
Astarta	AST PW	49.5	70.0	41%	BUY	The new VAT regime for agro producers will be largely neutral for Astarta, in our view, while recovery of sugar prices bode well for the company's earnings. Astarta is focused on business diversification and cost optimization via improving its energy and operational efficiency.
Agroton	AGT PW	4.12	12.0	191%	BUY	Agroton unveiled a strategy to increase its land bank from 122,000 ha to 200,000 ha by mid-2019 securing additional lease rights and by acquiring companies that control land plots in Luhansk and Kharkiv region.
IMC	IMC PW	12.0	13.0	9%	BUY	The recent changes in Ukraine's tax legislation are positive for IMC, which is focused growing exportable crops; some 95% of the company's revenue is tied to the dollar. Land bank is targeted to expand by 50% over 2015-20. A high standard of corporate governance makes the stock an attractive play in spite of its low liquidity.
AvangardCo	AVGR LI	0.4	0.3	-27%	SELL	Ukraine's new VAT regime for agro producers is negative for Avangard, as its subsidy reimbursements will be reduced. Large room for cost optimization provides a theoretical upside to earnings, but the company's highly volatile financial results have rendered forecasting unreliable.
Ovostar Union	OVO PW	115.0	110.0	-4%	HOLD	The company has a strong focus on domestic branded egg sales and successfully expands its export sales to mitigate negative effect from devaluation. Ovostar is in the midst of a long-term expansion that will ultimately see egg output triple over 2012-18E.
Iron Ore						
Ferrexpo	FXPO LN	258.6	--	--	U/R	An impressive reduction in the production and other operating cost led to higher profitability. A separate positive factor was an upward price trend for iron ore and steel on global markets.
Specialized Machinery						
Motor Sich	MSICH	3065	5250	71%	BUY	The reported profit for 1H17 represents UAH 1101 per share, which means the stock is still valued at P/E of barely more than 2.0x. Our base case scenario forecast for Motor Sich's net profit for FY17 is UAH 3.0bn, implying EPS of UAH 1440.
Oil & Gas						
UkrNafta	UNAF	141	270	91%	BUY	UNAF stock has been in a local upward trend since December after Parliament cut the production tax for oil for 2017.
Concern Galnaftogaz	GLNG	0.15	0.24	60%	BUY	Galnaftogaz is pursuing a plan to aggressively expand its filling station network.
Regal Petroleum	RPT LN	7.1	15.0	112%	BUY	Taking into account that Regal acquired PEP's assets for an estimated value of USD 6.8/boe of 2P reserves, we assume that Regal's potential enterprise value could be as much as USD 92mn.
JKX Oil & Gas	JKX LN	14.3	--	--	U/R	The company's balance sheet looks healthy after it successfully restructured its Eurobonds. An overall demand for natural gas in Ukraine remains strong.
Power Utilities						
DonbasEnerg	DOEN	18.1	9.0	-50%	SELL	The Donetsk separatist government has nationalized DonbasEnerg's Starobeshevo power plant, which previously accounted for about 70% of the company's installed power-generating capacity.
CenterEnerg	CEEN	11.16	15.00	34%	BUY	CenterEnerg's privatization has been postponed, but the company retains a strong fundamental value due to its large installed electricity generation capacity.
Banks						
Raiffeisen Bank Aval	BAVL	0.290	0.27	-7%	HOLD	Raiffeisen Aval's 1H17 net profit was at a record high UAH 2.7bn (USD 100mn), implying earnings per share of 4.45 kopecks. We forecast that the bank will post a net profit of UAH 4.50bn in FY17 and will pay a 7.30 kopeck dividend next year.

Source: Eavex Research

PRICES AND QUOTES												
Name	Ticker	Today, UAH*	52 high, UAH*	52 low, UAH*	Absolute performance				Performance relative to the UX index			
					1W	1M	3M	YtD	1W	1M	3M	YtD
UX Index	UX	1255.34	1292.48	706.27	0.0%	1.6%	10.2%	57.7%	0.0%	0.0%	0.0%	0.0%
Iron Ore Mining												
Ferrexpo	FXPO	258.60	323.20	99.25	0.9%	-14.4%	4.2%	92.3%	-2.3%	0.9%	-16.1%	34.5%
Railcar Manufacturing												
Kryukiv Wagon	KVBZ	9.81	n/a	n/a	6.1%	0.2%	8.6%	11.5%	6.1%	-1.4%	-1.5%	-46.3%
Specialized Machinery												
Motor Sich	MSICH	3065	3130	934	1.0%	2.4%	23.5%	65.0%	1.0%	0.7%	13.4%	7.2%
Turboatom	TATM	12.69	12.99	8.59	5.7%	10.3%	12.3%	35.7%	5.8%	8.7%	2.1%	-22.0%
Telecom												
Ukrtelecom	UTLM	0.150	n/a	n/a	15.2%	-6.3%	15.2%	-9.1%	15.2%	-7.9%	5.0%	-66.8%
Oil & Gas												
Regal Petroleum	RPT	7.08	7.38	2.75	2.9%	53.0%	95.2%	89.4%	-0.2%	2.9%	51.3%	31.7%
JKX Oil	JKX	14.50	33.50	12.25	13.7%	11.5%	-12.1%	-52.1%	-0.5%	13.8%	9.9%	-109.8%
Ukrnafta	UNAF	141.4	n/a	n/a	-1.6%	-8.2%	8.1%	37.0%	-1.6%	-9.8%	-2.1%	-20.7%
Power Utilities												
Centrenerg	CEEN	11.16	12.00	9.70	-0.5%	3.7%	-3.0%	7.8%	-0.4%	2.0%	-13.2%	-49.9%
Donbasenerg	DOEN	18.08	n/a	n/a	1.4%	21.3%	26.5%	72.0%	1.4%	19.7%	16.4%	14.3%
Zakhidenerg	ZAEN	129.10	164.00	55.00	-2.2%	-11.6%	11.3%	106.6%	-2.2%	-13.3%	1.1%	48.8%
Consumer												
Agroton	AGT	4.12	7.70	2.95	-0.5%	-2.8%	-30.9%	1.7%	-1.2%	-0.4%	-4.5%	-56.0%
Astarta	AST	49.48	72.00	49.06	0.0%	-5.8%	-23.7%	-8.5%	-0.5%	0.0%	-7.4%	-66.2%
Avangardo	AVGR	0.41	1.00	0.35	-8.9%	-28.7%	-31.7%	17.1%	-0.5%	-8.9%	-30.3%	-40.6%
Industrial Milk Company	IMC	11.98	12.29	7.10	2.2%	10.9%	17.9%	48.8%	-0.4%	2.3%	9.3%	-8.9%
Kernel	KER	48.60	80.00	46.00	-5.6%	-10.8%	-22.3%	-23.9%	0.2%	-5.5%	-12.5%	-81.6%
MHPC	MHPC	11.40	12.05	8.54	-2.1%	1.3%	12.9%	29.7%	-1.4%	-2.1%	-0.3%	-28.0%
Milkiland	MLK	1.50	2.80	1.50	0.0%	-10.7%	-6.3%	-25.0%	-1.2%	0.0%	-12.3%	-82.7%
Ovostar Union	OVO	115.00	128.05	84.00	5.4%	4.6%	2.4%	32.9%	0.4%	5.4%	3.0%	-24.8%
Banks												
Raiffeisen Bank Aval	BAVL	0.290	n/a	n/a	-0.4%	1.1%	6.6%	119.6%	-0.4%	-0.5%	-3.6%	61.9%

Source: Bloomberg
* companies listed abroad are in traded currency

MAIN FINANCIAL FORECASTS, USD mn

Name	Ticker	Net Sales			EBITDA			EBITDA margin			Net Profit			Net Profit margin		
		2015	2016	2017E	2015	2016	2017E	2015	2016	2017E	2015	2016	2017E	2015	2016	2017E
Iron Ore Mining																
Ferrexpo	FXPO	961	986	1,282	313	375	495	32.6%	38.0%	38.6%	31	189	255	3.3%	19.2%	19.9%
Railcar Manufacturing																
Kryukiv Wagon	KVBZ	41	67	55	-15	1	6	-37.1%	0.9%	11.0%	-19	-4	2	-46.3%	-5.9%	3.3%
Specialized Machinery																
Turboatom	TATM	128	98	99	87	33	35	67.9%	34.0%	35.2%	75	27	28	58.3%	28.0%	27.8%
Motor Sich	MSICH	697	414	426	237	166	153	33.9%	40.1%	35.8%	158	77	110	22.6%	18.6%	25.9%
Oil & Gas																
Ukrnafta	UNAF	1,319	885	1,079	-101	116	151	-7.7%	13.1%	14.0%	-250	-343	74	-18.9%	-38.7%	6.8%
Regal Petroleum	RPT	22	25	27	10	10	15	45.5%	40.4%	55.6%	-1	0	1	na	0.0%	3.7%
JKX Oil	JKX	89	80	95	17	29	34	19.1%	36.3%	35.8%	-82	-20	3	-92.1%	-25.0%	3.2%
Electric Utilities																
Centrenergy	CEEN	315	419	492	12	46	69	3.7%	11.1%	14.1%	3	15	51	1.0%	3.6%	10.5%
Donbasenergo	DOEN	190	157	147	8	7	5	4.3%	4.4%	3.3%	-9	-2	1	-4.6%	-1.1%	1.0%
Consumer																
MHP	MHPC	1,183	1,135	1,300	459	415	490	38.8%	36.6%	37.7%	-126	59	300	-10.6%	5.2%	23.1%
Kernel	KER	1,989	2,169	2,646	346	319	346	17.4%	14.7%	13.1%	225	176	220	11.3%	8.1%	8.3%
Astarta	AST	349	402	445	144	167	170	41.4%	41.6%	38.1%	18	90	113	5.1%	22.4%	25.3%
Avangardco	AVGR	230	191	180	-69	1	22	-30.2%	0.4%	12.2%	-158	-57	2	-68.9%	-29.6%	1.1%
Ovostar	OVO	76	84	90	35	40	43	46.0%	47.7%	48.2%	32	35	37	42.3%	41.8%	41.1%
Banks																
		Total Assets			Total Equity			Total Income			Net Profit			Return on Equity		
Raiffeisen Bank Aval	BAVL	1,958	2,113	2,080	261	381	347	216	192	228	-66	150	228	-25.3%	39.4%	65.7%

Source: Eavex Research

MAIN TRADING MULTIPLES

Name	Ticker	MCap USD mn	Free Float % USD mn	EV USD mn	P/E			EV/EBITDA			EV/Sales			
					2015	2016	2017E	2015	2016	2017E	2015	2016	2017E	
Iron Ore Mining														
Ferrexpo	FXPO	1,991	24.0%	478	2,741	>30	10.5	7.8	8.8	7.3	5.5	2.9	2.8	2.1
Railcar Manufacturing														
Krukiv Wagon	KVBZ	42	5.0%	2	37	neg	neg	22.8	neg	>30	6.0	0.9	0.5	0.7
Specialized Machinery														
Turboatom	TATM	55	5.8%	3	-31	0.7	2.0	2.0	-0.4	-0.9	-0.9	-0.2	-0.3	-0.3
Motor Sich	MSICH	237	24.0%	57	198	1.5	3.1	2.1	0.8	1.2	1.3	0.3	0.5	0.5
Oil & Gas														
Ukrnafta	UNAF	285	3.0%	9	270	neg	neg	3.9	neg	2.3	1.8	0.2	0.3	0.3
Regal Petroleum	RPT	30	21.6%	6	10	neg	n/a	29.7	n/a	n/a	n/a	n/a	n/a	n/a
JKX Oil & Gas	JKX	33	50.4%	16	141	neg	neg	10.9	8.3	4.9	4.1	1.6	1.8	1.5
Electric Utilities														
CentrEnergO	CEEN	153	21.7%	33	73	>30	10.1	3.0	6.2	1.6	1.0	0.2	0.2	0.1
DonbasEnergO	DOEN	16	14.2%	2	30	neg	neg	10.8	3.7	4.3	6.3	0.2	0.2	0.2
Consumer														
MHP	MHPC	1,205	34.1%	411	2,275	neg	20.3	4.0	5.0	5.5	4.6	1.9	2.0	1.7
Kernel	KER	1,060	61.8%	655	1,556	4.7	6.0	4.8	4.5	4.9	4.5	0.8	0.7	0.6
Astarta	AST	339	37.0%	125	486	19.1	3.8	3.0	3.4	2.9	2.9	1.4	1.2	1.1
Avangardco	AVGR	26	22.5%	6	358	neg	neg	13.1	neg	>30	16.3	1.6	1.9	2.0
Ovostar	OVO	189	25.0%	47	194	5.9	5.4	5.1	5.6	4.8	4.5	2.6	2.3	2.2
Banks														
							P/E			P/Book			P/Assets	
Raiffeisen Bank Aval	BAVL	663	1.8%	12		neg	4.4	3.5	2.5	1.7	1.9	0.34	0.31	0.32

Source: Eavex Research

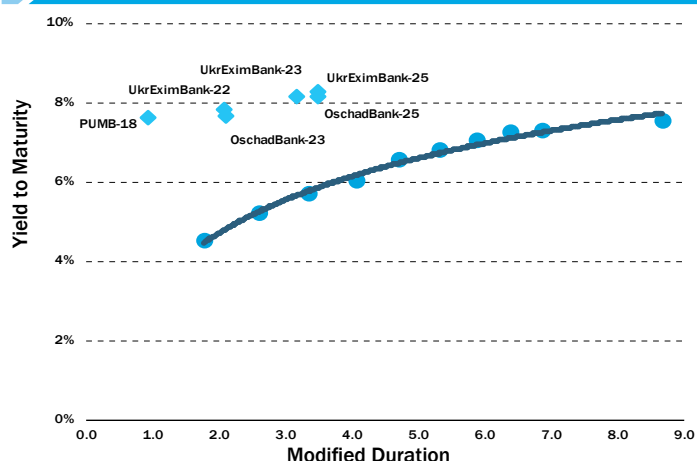
UKRAINIAN EUROBONDS

Issue	Price (Bid)	Price (Ask)	YTM (Bid)	YTM (Ask)	Price chg. (YTD)	Modified Duration	Coupon	Coupon Period	Maturity Date	Volume USD mn	Ratings ¹
Sovereign Eurobonds											
Ukraine, 2019	105.3	105.8	4.7%	4.4%	4.5%	1.7	7.75%	S/A	1 Sept 2019	1,744	Caa2/B-/B-
Ukraine, 2020	106.5	107.0	5.2%	5.1%	7.6%	2.5	7.75%	S/A	1 Sept 2020	1,780	Caa2/B-/B-
Ukraine, 2021	107.0	107.5	5.7%	5.5%	9.4%	3.3	7.75%	S/A	1 Sept 2021	1,409	Caa2/B-/B-
Ukraine, 2022	107.0	107.5	6.1%	5.9%	10.6%	4.0	7.75%	S/A	1 Sept 2022	1,384	Caa2/B-/B-
Ukraine, 2023	106.5	107.5	6.4%	6.2%	11.6%	4.6	7.75%	S/A	1 Sept 2023	1,355	Caa2/B-/B-
Ukraine, 2024	105.4	106.0	6.8%	6.6%	11.3%	5.2	7.75%	S/A	1 Sept 2024	1,339	Caa2/B-/B-
Ukraine, 2025	104.4	105.0	7.0%	6.9%	11.4%	5.8	7.75%	S/A	1 Sept 2025	1,329	Caa2/B-/B-
Ukraine, 2026	103.6	104.1	7.2%	7.1%	10.8%	6.3	7.75%	S/A	1 Sept 2026	1,318	Caa2/B-/B-
Ukraine, 2027	103.3	103.8	7.3%	7.2%	10.7%	6.8	7.75%	S/A	1 Sept 2027	1,307	Caa2/B-/B-
Ukraine, 2032	98.4	98.9	7.6%	7.5%	-1.4%	8.6	7.375%	S/A	25 Sept 2032	3,000	//B-
Ukraine, GDP-linked (VRI)	56.8	57.3	n/a	n/a	86.9%	n/a	0.00%	S/A	31 May 2040	3,214	/B-/
Corporate Eurobonds											
Agroton, 2019	14.4	18.8	196%	160%	-17.2%	0.8	6.00%	S/A	14 Jul 2019	18	//
Kernel, 2022	110.3	110.6	6.0%	5.9%	10.4%	3.5	8.75%	S/A	31 Jan 2022	500	/B/B+
MHP, 2020	108.2	108.6	4.6%	4.4%	12.3%	2.2	8.25%	S/A	2 Apr 2020	750	/B-/B-
MHP, 2024	108.3	109.0	6.2%	6.1%	8.6%	5.0	7.75%	S/A	10 May 2024	500	//
Avangardco, 2018	22.5	25.9	261%	228%	-18.2%	0.4	10.00%	S/A	29 Oct 2018	206	//
UkrLandFarming, 2018	26.9	27.1	705%	696%	-12.0%	0.1	10.88%	S/A	26 Mar 2018	500	/CC/
Mriya, 2016	5.0	7.0	n/a	n/a	n/a	n/a	10.95%	S/A	30 Mar 2016	72	IN DEFAULT
Mriya, 2018	5.0	7.0	n/a	n/a	n/a	n/a	9.45%	S/A	19 Apr 2018	400	IN DEFAULT
DTEK, 2024	103.5	104.5	10.2%	10.0%	16.3%	5.3	10.75%	S/A	31 Dec 2024	1,275	//
Metinvest, 2021	91.0	94.0	13.8%	12.8%	-0.5%	3.4	9.37%	S/A	31 Dec 2021	1,197	//B
Ferrexpo, 2019	105.4	106.0	6.3%	5.9%	4.9%	0.9	10.375%	S/A	07 Apr 2019	186	Caa3/CCC/CC
Ferrexpo, 2019	105.5	105.9	6.2%	6.0%	4.5%	0.9	10.375%	S/A	07 Apr 2019	161	Caa3/CCC/CC
UZ Rail, 2021	106.5	107.2	7.9%	7.7%	12.0%	1.9	9.88%	S/A	15 Sept 2021	500	/CCC+/CCC
Interepipe, 2017	26.0	29.0	n/a	n/a	0.0%	n/a	10.25%	S/A	2 Aug 2017	200	IN DEFAULT
JKX Oil&Gas, 2018	85.0	95.0	23.2%	17.1%	19.8%	1.8	8.00%	S/A	19 Feb 2018	16	//
Bank Eurobonds											
Fin&Credit Bank, 2019	0.5	1.2	n/a	n/a	-12.7%	n/a	9.25%	S/A	25 Jan 2019	100	IN DEFAULT
PUMB, 2018	103.8	104.9	7.6%	6.5%	2.8%	0.9	11.00%	Q	31 Dec 2018	275	//
Nadra Bank, 2018	0.2	1.4	n/a	n/a	-16.6%	n/a	6.25%	A	31 Jul 2018	60	IN DEFAULT
PrivatBank, 2018-2	18.0	21.0	n/a	n/a	14.7%	1.5	10.25%	S/A	23 Jan 2018	200	IN DEFAULT
PrivatBank, 2021	6.0	12.0	n/a	n/a	-30.8%	1.4	11.00%	S/A	09 Feb 2021	220	IN DEFAULT
PrivatBank, 2018	19.0	20.4	n/a	n/a	47.9%	0.1	10.88%	S/A	28 Feb 2018	175	IN DEFAULT
UkrEximBank, 2022	108.1	108.4	7.5%	7.4%	10.5%	2.1	9.625%	S/A	27 Apr 2022	750	Caa3//B-
UkrEximBank, 2023	100.2	100.8	8.5%	8.4%	21.8%	3.5	7.51%	S/A	9 Feb 2023	125	Caa3//CCC
UkrEximBank, 2025	109.3	109.7	8.0%	8.0%	15.3%	3.5	9.75%	S/A	22 Jan 2025	600	Caa3//B-
VAB Bank, 2019	n/a	n/a	n/a	n/a	n/a	n/a	9.00%	Q	14 Jun 2019	88	IN DEFAULT
Oschadbank, 2023	107.1	107.6	7.7%	7.6%	10.1%	2.0	8.25%	S/A	10 Mar 2023	700	Caa3//B-
Oschadbank, 2025	108.5	108.7	8.1%	8.0%	14.9%	3.1	8.88%	S/A	20 Mar 2025	500	Caa3//B-
Municipal Eurobonds											
City of Kyiv, 2015	66.0	70.3	n/a	n/a	-11.2%	n/a	8.00%	S/A	6 Nov 2015	101	IN DEFAULT

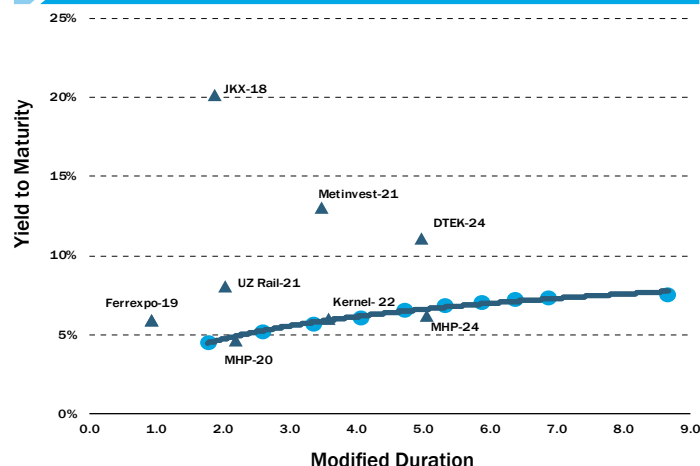
¹ Moody's/S&P/Fitch

Source: Bloomberg, Cbonds, Eavex Research

SOVEREIGNS vs. BANKING EUROBONDS



SOVEREIGNS vs. CORPORATE and MUNICIPAL EUROBONDS



UKRAINIAN DOMESTIC BONDS

Issue	Price (Bid)	Price (Ask)	YTM (Bid)	YTM (Ask)	Modified Duration	Coupon	Coupon Period	Maturity Date	Volume UAH mn
UAH denominated Bonds									
UA4000194591			15.10%	14.90%	n/a	16.62%	S/A	11 Jul .2018	1,454
VAT Bonds									
UA4000185151			15.60%	15.10%	1.9	9.50%	S/A	8 Jul 2019	3,577
UA4000185557			15.60%	15.10%	1.9	9.50%	S/A	22 Jul 2019	2,171
UA4000186159			15.60%	15.10%	1.9	9.50%	S/A	20 Aug 2019	955

Source: Bloomberg, Cbonds, Eavex Research

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