



UKRAINE MARKETS DAILY

May 21, 2015

EMPIRE STATE CAPITAL PARTNERS



UX
0.6%



USD/UAH
-1.8%



Ukraine CDS
0.9%

Ukrainian market performance (UX)



Source – Bloomberg

| Currencies | Last | 1d | 1m | YTD * |
|---------------|--------|-------|-------|--------|
| USD/UAH | 20.75 | -1.8% | -9.2% | 27.5% |
| EUR/UAH | 23.02 | -2.3% | -6.2% | 15.9% |
| RUB/UAH | 0.42 | -2.2% | -3.8% | 46.2% |
| Indices | Last | 1d | 1m | YTD |
| UX | 1,036 | 0.5% | 2.1% | 0.3% |
| PFTS | 359 | 0.3% | 0.1% | -7.3% |
| WIG UKR | 298 | 0.1% | -0.2% | 22.0% |
| MICEX | 1,637 | -1.4% | -1.2% | 17.2% |
| MSCI EM | 1,036 | -0.5% | -0.6% | 8.3% |
| S&P500 | 2,126 | -0.1% | 2.1% | 3.3% |
| DAX | 11,848 | 0.0% | 1.4% | 20.8% |
| Dow Jones | 18,285 | -0.1% | 2.6% | 2.6% |
| Nikkei | 20,197 | 0.8% | 2.8% | 15.7% |
| Shanghai Comp | 4,446 | 0.7% | 3.7% | 37.5% |
| WIG | 56,926 | -0.1% | 2.6% | 10.7% |
| Commodities | Last | 1d | 1m | YTD |
| Oil (Brent) | 65 | 1.6% | 2.5% | 13.4% |
| Gold | 1,209 | 0.2% | 0.5% | 2.1% |
| Iron ore | 59 | 0.0% | 16.1% | -15.0% |
| Steel | 450 | 0.0% | -1.1% | -25.6% |
| Wheat | 189 | 0.0% | -4.1% | -23.2% |
| Corn | 154 | -0.5% | -5.4% | -5.2% |

Source – Bloomberg, Minfin.com.ua (*)

| Futures - UX | Last | 1d | Vol, UAH mn | Open acc, ths |
|---------------|-------|-------|----------------|---------------|
| DX-6.15 (USD) | 22.60 | -0.7% | 0.0 | 0.5 |
| UX-6.15 | 1,060 | 0.7% | 1.2 | 16.0 |
| UX-9.15 | 1,113 | -0.6% | 0.2 | 1.4 |

Source - UX

Market comment

The UX Index was up by 0.6% on Wednesday, and up by 2.4% in the US dollar terms, while the PFTS index was up by 0.3% in UAH terms. Nine out of ten companies in the UX index were up in UAH terms, with the largest increase in prices observed for Enakievo MP (3.3%), Azovsteel (2.0%) and Alchevsk MP (1.4%).

On the interbank exchange market, the USD/UAH spot rate was down by 1.8% with the closing price of 20.75 (mid price) on Wednesday according to Bloomberg. The official exchange rate reported by the NBU was 20.81.

Ukraine 5-year CDS were up by 0.9% on Wednesday.

Market news

- Solvent Ukrainian banks recorded a net profit of UAH 1.9 bn while households' deposits increased by 0.4% m/m in April 2015

| Best performers | Ticker | Price, \$ | 1d | YTD |
|------------------|---------|-----------|-------|--------|
| Regal Petroleum | RPT LN | 0.072 | 15.9% | 47.6% |
| Misen Energy | MISE SS | 0.887 | 10.5% | 1.8% |
| Enakievo MP | ENMZ UK | 0.819 | 5.4% | -36.3% |
| Worst performers | Ticker | Price, \$ | 1d | YTD |
| Ovostar | OVO PW | 21.480 | -2.5% | 5.6% |
| Cereal Planet | CRP PW | 3.453 | -1.2% | 3.8% |
| Kernel | KER PW | 10.047 | -1.2% | 25.0% |

Source – UX, Bloomberg

Ukraine 5Y CDS spreads



Solvent Ukrainian banks recorded a net profit of UAH 1.9 bn while households' deposits increased by 0.4% m/m in April 2015

The net losses of the banking system amounted to UAH 1.9 bn in April 2015, compared with UAH 6.3 bn losses in March, according to the preliminary data of the National Bank of Ukraine. Banks' income equaled UAH 15.5 bn, down from UAH 20.4 bn losses in the previous month, whereas expenditures declined to UAH 17.4 bn from UAH 26.7 bn in March. The losses of the banking system was attributed mostly to insolvent banks, which were put under temporary administration of the Individuals' Deposit Guarantee Fund, according to the NBU, whereas the solvent ones recorded a profit of UAH 1.9 bn.

Loan loss reserve provisions continued affecting the Ukrainian banks' financial results, representing 21% of the banks' expenses in April 2015. However, allocation to reserves has declined by 67% m/m and amounted to UAH 3.6 bn. Net losses of the Ukrainian banking system amounted to UAH 80.9 bn in January-April 2015.

In the meantime, the NBU notes an increase in outstanding deposit stock by 0.4% m/m in April thanks to a 2.4% m/m increase in households' deposits. However, the overall deposit stocks continued declining due to an outflow of USD 521 mn from FX deposits. Banks' loan portfolio continued contracting overall.

Our view:

The news is slightly positive for the banking system, notwithstanding the persisting liquidity pressure and adverse economic environment. We expect the currently observable improvement on the currency market and anticipated easing of the economic downturn to exert a positive influence on banking results in the forthcoming months.

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Local equity – UX Index

| Company | Ticker | Mcap, \$ mn | Last price, \$ | Bid, \$ | Ask, \$ | Chg, d/d | Chg, m/m | Chg, YTD | 1M ADT Vol, \$000 | 52w Low | 52w High |
|------------------|----------|-------------|----------------|---------|---------|----------|----------|----------|-------------------|---------|----------|
| Alchevsky MP | ALMK UK | 18.6 | 0.001 | 0.001 | 0.001 | 3.3% | 9.4% | -23.2% | 1.4 | 0.001 | 0.004 |
| Avdeevsky Coke | AVDK UK | 12.5 | 0.063 | 0.061 | 0.063 | 1.8% | -4.8% | -41.1% | 1.0 | 0.066 | 0.309 |
| Azovstal | AZST UK | 166.9 | 0.040 | 0.039 | 0.040 | 4.0% | 3.5% | -13.2% | 5.9 | 0.030 | 0.074 |
| Bank Aval | BAVL UK | 136.5 | 0.004 | 0.004 | 0.004 | 2.2% | -4.1% | -24.1% | 14.0 | 0.005 | - |
| CentrEnergo | CEEN UK | 144.4 | 0.386 | 0.385 | 0.388 | 1.9% | 1.6% | -16.8% | 19.8 | 0.253 | 0.746 |
| DonbassEnergo | DOEN UK | 26.9 | 1.120 | 1.104 | 1.120 | 2.0% | 5.1% | -44.7% | 10.6 | 0.940 | 4.111 |
| Enakievo MP | ENMZ UK | 9.0 | 0.819 | 0.805 | 0.822 | 5.4% | -2.6% | -36.3% | 2.2 | 0.578 | 5.365 |
| Motor Sich | MSICH UK | 275.1 | 129.54 | 129.49 | 130.41 | 1.9% | 4.1% | -15.1% | 41.2 | 146.69 | 110.1 |
| Ukrnafta | UNAF UK | 696.7 | 13.108 | 13.104 | 13.200 | 2.6% | 9.5% | 5.0% | 41.4 | 4.563 | 29.07 |
| Kryukiv carriage | KVBZ UK | 58.0 | 0.524 | 0.506 | 0.523 | 2.6% | 6.2% | -33.6% | 1.5 | 0.418 | 1.814 |

Source: Bloomberg, UX. Price calculated using the interbank exchange rate according to Bloomberg.

Other local equity

| Company | Ticker | Mcap, \$ mn | Last price, \$ | Bid, \$ | Ask, \$ | Chg, d/d | Chg, m/m | Chg, YTD | 1M ADT Vol, \$000 | 52w Low | 52w High |
|-----------------------|----------|-------------|----------------|---------|---------|----------|----------|----------|-------------------|---------|----------|
| Central GZK | CGOK UK | 480.0 | 0.410 | 0.266 | 0.424 | 1.8% | - | - | - | - | - |
| Donetsk Coke | DKOK UK | 3.8 | 0.015 | - | 0.023 | 1.8% | - | - | - | - | - |
| DniproEnergo | DNON UK | 28.0 | 3.614 | 3.378 | 4.771 | -21.3% | - | - | - | - | - |
| DonetskOblEnergo | DOON UK | 8.5 | 0.130 | 0.067 | 0.195 | 1.8% | - | - | - | - | - |
| Farmak | FARM UK | 52.6 | 7.229 | 7.229 | 10.843 | 1.8% | - | - | - | - | - |
| Forum Bank | FORM UK | - | - | - | - | - | - | - | - | - | - |
| KhmelnytskOblEner | HMON UK | 14.6 | 0.108 | 0.054 | 0.162 | 1.8% | - | - | - | - | - |
| Hartsyzk pipes | HRTR UK | 36.3 | 0.014 | 0.013 | 0.016 | 1.8% | -26.8% | -40.7% | 0.1 | 0.013 | 0.086 |
| KievEnergo | KIEN UK | 67.4 | 0.622 | 0.617 | 0.723 | 1.8% | - | - | - | - | - |
| KirovogradOblEner | KION UK | 12.9 | 0.108 | 0.054 | 0.162 | 1.8% | - | - | - | - | - |
| AvtoKRAZ | KRAZ UK | 13.1 | 0.006 | 0.005 | 0.006 | 2.7% | - | - | - | - | - |
| DTEK KrymEnergo | KREN UK | 4.4 | 0.026 | 0.013 | 0.036 | 1.8% | -2.5% | -78.9% | 0.2 | 0.031 | 0.214 |
| Kryukiv carriage | KVBZ UK | 58.0 | 0.524 | 0.506 | 0.523 | 2.6% | 6.2% | -33.6% | 1.5 | 0.418 | 1.814 |
| Lugansk Locomotive | LTPL UK | 12.7 | 0.051 | 0.044 | 0.051 | -10.9% | -29.3% | -23.7% | 0.1 | 0.072 | 0.066 |
| Bogdan Motors | LUAZ UK | 5.4 | 0.001 | 0.001 | 0.001 | 1.8% | -13.8% | -6.2% | 0.1 | 0.001 | 0.007 |
| Ilyich iron and steel | MMKI UK | 113.3 | 0.009 | 0.008 | 0.010 | 1.8% | - | - | - | - | - |
| Mariupol machinery | MZVM UK | 1.1 | 0.003 | 0.003 | 0.003 | 1.8% | -14.1% | -61.7% | 0.5 | 0.005 | 0.017 |
| MHP | MHPC UK | 1,374.9 | 13.012 | 12.773 | 13.252 | 1.8% | - | - | - | - | - |
| Nord | NORD UK | 5.2 | 1.928 | 0.964 | 3.373 | 1.8% | - | - | - | - | - |
| Poltavkhimmash | PHMSH UK | 1.8 | 0.747 | 0.680 | 1.084 | 1.8% | - | - | - | - | - |
| South GZK | SGOK UK | 866.1 | 0.376 | 0.304 | 0.385 | 1.8% | 1.0% | -26.9% | 0.7 | 0.280 | 0.777 |
| Pokrovske mine | SHCHZ UK | 13.5 | 0.016 | 0.010 | 0.016 | 1.8% | 15.3% | -45.1% | 0.1 | 0.011 | 0.068 |
| Universalna insur. | SKUN UK | 2.4 | - | - | - | - | - | - | - | 0.025 | 0.669 |
| Slavutich | SLAV UK | 320.3 | 0.313 | 0.337 | 0.482 | 1.8% | - | - | - | - | - |
| Stakhanov railway | SVGZ UK | 3.0 | 0.012 | 0.011 | 0.013 | -5.7% | - | - | - | - | - |
| Ukrtelecom | UTLM UK | 162.4 | 0.009 | 0.008 | 0.009 | 1.8% | -1.7% | -7.1% | 14.0 | 0.008 | 0.010 |
| Yasynivsky Coke | YASK UK | 4.0 | 0.013 | 0.013 | 0.013 | 1.8% | -12.5% | -27.1% | 0.0 | 0.012 | 0.072 |
| Zakhidenergo | ZAEN UK | 102.3 | 8.000 | 6.747 | 8.164 | 1.8% | 11.7% | -12.1% | 0.1 | 7.693 | 15.488 |
| ZakarpattyiaOblEner | ZOEN UK | 6.6 | - | - | - | - | - | - | - | 0.060 | 0.145 |

Source: Bloomberg, UX. Price calculated using the interbank exchange rate according to Bloomberg.

Ukrainian equities listed abroad

| Company | Ticker | Mcap, \$ mn | Last price, \$ | Bid, \$ | Ask, \$ | Chg, d/d | Chg, m/m | Chg, YTD | 1M ADT Vol, \$000 | 52w Low | 52w High |
|-----------------|----------|-------------|----------------|---------|---------|----------|----------|----------|-------------------|---------|----------|
| Active Energy | AEG LN | 50.0 | 0.09 | 0.09 | 0.09 | 0.3% | 14.9% | 89.6% | 119.6 | 0.03 | 0.18 |
| Agrogeneration | ALAGR FP | 50.2 | 0.54 | 0.53 | 0.53 | -0.4% | 7.1% | 4.5% | 16.8 | 0.32 | 1.28 |
| Agroton | AGT PW | 6.0 | 0.28 | 0.27 | 0.27 | 3.9% | -10.9% | -20.2% | 8.9 | 0.25 | 0.88 |
| Astarta-Kyiv | AST PW | 164.5 | 6.58 | 6.54 | 6.54 | -0.4% | 2.1% | 16.5% | 250.1 | 3.89 | 13.07 |
| Avangard | AVGR LI | 172.5 | 2.70 | 2.56 | 2.56 | 0.0% | -2.7% | 31.7% | 85.5 | 1.81 | 10.35 |
| Black Iron | BKI CN | 4.0 | 0.02 | 0.02 | 0.02 | 0.0% | 22.2% | -42.1% | 4.9 | 0.02 | 0.14 |
| Cadogan Oil | CAD LN | 31.0 | 0.13 | 0.13 | 0.13 | 1.8% | 5.5% | -14.0% | 12.8 | 0.13 | 0.19 |
| Cereal Planet | CRP PW | 6.1 | 3.45 | 3.40 | 3.40 | -1.2% | 5.5% | 3.8% | 0.0 | 2.87 | 3.46 |
| Coal Energy | CLE PW | 7.1 | 0.16 | 0.15 | 0.15 | 2.3% | -9.6% | -10.0% | 1.3 | 0.14 | 0.40 |
| Cub Energy | CUB CN | 5.2 | 0.02 | 0.02 | 0.02 | 0.0% | 2.0% | -44.7% | 2.7 | 0.01 | 0.14 |
| Ferrexpo | FXPO LN | 654.4 | 1.11 | 1.11 | 1.11 | -0.1% | 8.9% | 45.8% | 901.3 | 0.68 | 2.07 |
| Hawley Oil&Gas | HOG AU | 1.1 | 0.00 | 0.00 | 0.00 | 0.0% | -15.2% | 21.0% | - | 0.00 | 0.01 |
| IMC | IMC PW | 40.0 | 1.28 | 1.25 | 1.25 | -1.0% | -13.4% | -20.2% | 1.6 | 1.25 | 2.86 |
| JKX Oil&Gas | JKX LN | 76.3 | 0.44 | 0.44 | 0.44 | 0.3% | 2.1% | 136.9% | 25.8 | 0.17 | 0.98 |
| KDM Shipping | KDM PW | 10.4 | 1.12 | 0.01 | 0.01 | 0.0% | -19.3% | -2.3% | 0.8 | 0.95 | 2.99 |
| Kernel | KER PW | 800.6 | 10.05 | 9.94 | 9.94 | -1.2% | -3.0% | 25.0% | 1,882.0 | 5.71 | 10.86 |
| MHP | MHPC LI | 1,262.7 | 11.95 | 11.30 | 11.30 | 0.0% | 8.6% | 29.9% | 646.8 | 8.24 | 15.60 |
| Milkiland | MLK PW | 19.7 | 0.63 | 0.61 | 0.61 | 1.8% | -18.4% | 50.9% | 18.6 | 0.39 | 2.07 |
| Misen Energy | MISE SS | 128.6 | 0.89 | 0.79 | 0.79 | 10.5% | 11.7% | 1.8% | - | 0.68 | 3.17 |
| Mriya | MAYA GF | 17.7 | 0.17 | 0.11 | 0.11 | -0.4% | -52.2% | -75.5% | 0.1 | 0.06 | 6.12 |
| Ovostar | OVO PW | 128.9 | 21.48 | 21.48 | 21.48 | -2.5% | 9.6% | 5.6% | 220.3 | 17.01 | 22.58 |
| Regal Petroleum | RPT LN | 23.1 | 0.07 | 0.07 | 0.07 | 15.9% | 0.8% | 47.6% | 1.6 | 0.04 | 0.16 |
| Serinus Energy | SEN PW | 67.6 | 0.86 | 0.85 | 0.85 | 0.4% | 4.3% | -24.2% | 273.1 | 0.77 | 2.36 |
| Westa ISIC | WES PW | 1.0 | 0.02 | 0.02 | 0.02 | 0.0% | -8.3% | -53.9% | 0.1 | 0.02 | 0.13 |

Source: Bloomberg.

Market multiples

| Industry | Ticker | Last price, | Target price, | Mcap \$ mn | EV, \$ mn | Free float | P/E | | | EV/EBITDA | | | EV/Sales | | | P/B |
|----------------------------|----------|-------------|---------------|------------|-----------|------------|------|-------|-------|-----------|-------|-------|----------|-------|-------|------|
| | | \$ | \$ | | | | 2013 | 2014E | 2015F | 2013 | 2014E | 2015F | 2013 | 2014E | 2015F | 2013 |
| OIL&GAS, ENERGY | | | | | | | | | | | | | | | | |
| Ukrnafta | UNAF UK | 13.11 | - | 697 | 965 | 8% | 29.9 | 6.6 | 16.0 | 3.4 | 2.5 | 5.6 | 0.4 | 0.5 | 0.7 | 0.3 |
| JKX Oil & Gas | JKX LN | 0.44 | - | 76 | 87 | 48% | 11.7 | neg. | neg. | 1.3 | 1.9 | 1.6 | 0.5 | 0.6 | 0.6 | 0.2 |
| Misen Energy | MISE SS | 0.89 | - | 129 | 145 | 1% | 4.0 | - | - | 3.1 | - | - | 1.5 | - | - | 1.5 |
| Serinus Energy | SER PW | 0.86 | - | 68 | 94 | 39% | neg. | neg. | neg. | 1.3 | 1.3 | 2.5 | 0.6 | 0.6 | 0.8 | 0.4 |
| Cub Energy | KUB CN | 0.02 | 0.03 | 5 | 4 | 26% | neg. | neg. | neg. | neg. | neg. | neg. | 1.5 | 0.5 | 0.6 | 0.1 |
| Active Energy | AEG LN | 0.09 | 0.26 | 50 | 52 | 40% | neg. | neg. | 0.9 | neg. | 103.8 | 0.9 | 6.3 | 2.0 | 0.5 | 8.6 |
| METALS & MINING | | | | | | | | | | | | | | | | |
| Ferrexpo | FXPO LN | 1.11 | - | 654 | 1,243 | 26% | 2.5 | 3.6 | 10.0 | 2.5 | 2.5 | 5.3 | 0.8 | 0.9 | 1.2 | 0.4 |
| Central GZK | CGOK UK | 0.41 | - | 480 | 465 | 0% | 2.5 | 2.9 | - | 1.4 | 1.7 | - | 0.7 | 0.7 | - | 0.6 |
| South GZK | SGOK UK | 0.38 | - | 866 | 1,174 | 1% | 1.6 | 1.9 | - | 1.3 | 1.4 | - | 0.7 | 0.8 | - | 0.4 |
| Pokrovske coal | SHCHZ UK | 0.02 | - | 13 | 140 | 2% | neg. | - | - | 1.4 | - | - | 0.3 | - | - | 0.1 |
| Azovsteel | AZST UK | 0.04 | - | 167 | 167 | 4% | neg. | 2.1 | 3.3 | neg. | 1.1 | 1.6 | 0.1 | 0.1 | 0.1 | 0.1 |
| Enakievo MP | ENMZ UK | 0.82 | - | 9 | 1 | 14% | neg. | neg. | 0.0 | neg. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 |
| AGRI/FOOD | | | | | | | | | | | | | | | | |
| Kernel | KER PW | 10.05 | - | 801 | 1,536 | 55% | 7.2 | neg. | 5.8 | 5.3 | 6.9 | 4.6 | 0.5 | 0.6 | 0.7 | 0.6 |
| MHP | MHPC LI | 11.95 | - | 1,263 | 2,442 | 29% | 8.1 | neg. | 6.3 | 6.2 | 4.4 | 4.9 | 1.6 | 1.8 | 1.9 | 1.0 |
| Astarta | AST PW | 6.58 | - | 165 | 428 | 32% | 5.5 | neg. | neg. | 5.0 | 2.7 | 4.3 | 1.0 | 0.9 | 1.1 | 0.3 |
| Agrogeneration | ALAGR FP | 0.54 | - | 50 | 142 | 18% | neg. | neg. | - | neg. | 5.3 | - | 1.4 | 1.7 | - | 0.7 |
| Avangard | AVGR LI | 2.70 | 4.52 | 172 | 330 | 23% | 0.7 | neg. | 4.9 | 1.1 | 2.5 | 2.9 | 0.5 | 0.8 | 1.0 | 0.1 |
| Ovostar | OVO PW | 21.48 | - | 129 | 138 | 26% | 4.2 | 4.7 | 5.7 | 3.8 | 4.7 | 5.3 | 1.6 | 1.8 | 1.8 | 0.9 |
| Mriya | MAYA GF | 0.17 | - | 18 | 806 | 20% | 0.2 | - | - | 4.9 | - | - | 1.6 | - | - | 0.0 |
| IMC | IMC PW | 1.28 | - | 40 | 164 | 27% | 1.5 | neg. | 4.9 | 3.3 | 2.9 | 3.3 | 1.4 | 1.2 | 1.0 | 0.3 |
| Milkiland | MLK PW | 0.63 | - | 20 | 131 | 22% | 1.4 | neg. | neg. | 3.0 | 5.7 | 4.4 | 0.3 | 0.3 | 0.5 | 0.1 |
| UTILITIES | | | | | | | | | | | | | | | | |
| CentrEnergo | CEEN UK | 0.39 | - | 142 | 153 | 22% | 2.4 | 23.7 | neg. | 1.6 | 5.9 | neg. | 0.2 | 0.2 | 0.3 | 0.5 |
| DonbassEnergo | DOEN UK | 1.12 | - | 26 | 123 | 14% | 0.4 | 1.1 | neg. | 1.1 | 2.6 | 38.2 | 0.2 | 0.3 | 0.7 | 0.2 |
| KievEnergo | KIEN UK | 0.62 | - | 67 | 7 | 3% | 0.5 | - | - | 0.0 | - | - | 0.0 | - | - | 0.1 |
| Zakhidenergo | ZAEN UK | 8.00 | - | 102 | 133 | 3% | 1.4 | - | - | 0.9 | - | - | 0.1 | - | - | 0.5 |
| INDUSTRIALS | | | | | | | | | | | | | | | | |
| Hartsyzk pipes | HRTR UK | 0.01 | - | 36 | 37 | 2% | 7.7 | 7.3 | - | 1.5 | 1.2 | - | 0.3 | 0.1 | - | 0.2 |
| AutoKRAZ | KRAZ UK | 0.006 | 0.017 | 13 | 148 | 13% | 5.4 | neg. | 0.6 | 11.4 | 3.4 | 3.3 | 1.7 | 1.0 | 1.0 | - |
| Kryukiv carriage | KVBZ UK | 0.52 | - | 60 | 64 | 32% | 1.4 | neg. | neg. | 1.3 | neg. | 12.8 | 0.1 | 0.5 | 1.0 | 0.2 |
| Motor Sich | MSICH UK | 129.54 | - | 269 | 205 | 19% | 1.7 | 2.1 | 1.9 | 0.6 | 0.6 | 0.8 | 0.2 | 0.2 | 0.3 | 0.2 |
| Bogdan Motors | LUAZ UK | 0.001 | - | 5 | 181 | 42% | neg. | - | - | neg. | - | - | 1.4 | - | - | 0.1 |
| BANKING | | | | | | | | | | | | | | | | |
| Ukrsotsbank | USCB UK | 0.005 | - | 121 | 863 | 2% | neg. | 6.4 | neg. | - | - | - | 1.4 | - | - | 0.1 |
| Bank Aval | BAVL UK | 0.004 | - | 134 | 547 | 4% | 1.1 | neg. | neg. | - | - | - | 0.6 | 1.2 | 2.2 | 0.1 |
| TELECOMS | | | | | | | | | | | | | | | | |
| Ukrtelecom | UTLM UK | 0.009 | - | 162 | 148 | 7% | neg. | 6.8 | 20.3 | 1.0 | 1.3 | 2.1 | 0.2 | 0.3 | 0.7 | 0.3 |
| PHARMA | | | | | | | | | | | | | | | | |
| Farmak | FARM UK | 7.23 | - | 53 | 85 | 22% | 1.5 | - | - | 1.3 | - | - | 0.4 | - | - | 0.3 |

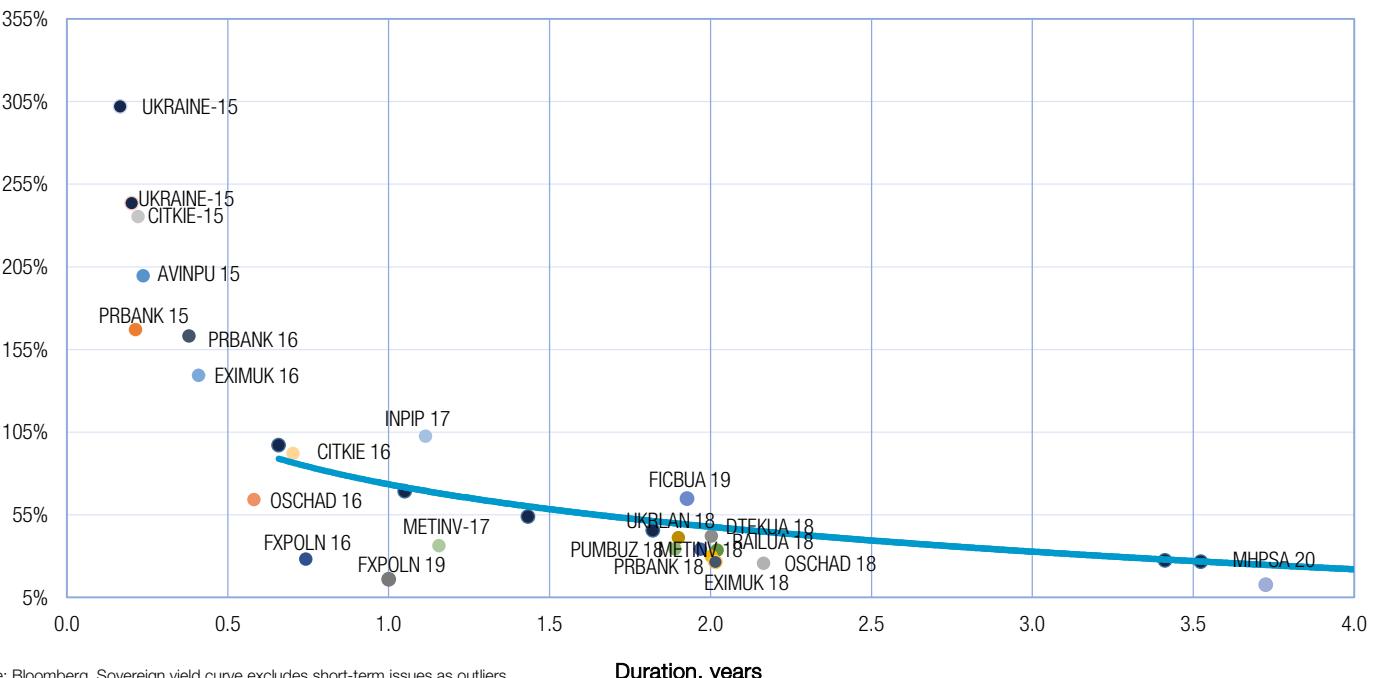
Source: Bloomberg, ESCP estimates. Market value of debt is used where applicable.

Eurobonds

| Issue | Ticker | Cpn | Maturity | Amt, \$ mn | Last | Bid | Ask | YTM (mid) | Mod. Dur. | Spread to sov., bps | Rating |
|------------------------|--------|-------|------------|------------|-------|-------|-------|-----------|-----------|---------------------|---------------|
| Sovereigns | | | | | | | | | | | |
| Ukraine-15 | UKRAIN | 6.88 | 23.09.2015 | 500 | 50.20 | 49.64 | 50.77 | 302.0 | 0.17 | 16,183 | CC/Ca/CCC- |
| Ukraine-15 | UKRAIN | 4.95 | 13.10.2015 | 600 | 50.51 | 49.74 | 51.29 | 243.7 | 0.20 | 11,074 | CC/Ca/CCC- |
| Ukraine-15 (RU) | UKRAIN | 5.00 | 20.12.2015 | 3,000 | 52.50 | 50.00 | 55.00 | 157.9 | 0.31 | 4,149 | CCC/Caa3/CCC |
| Ukraine-16 | UKRAIN | 6.25 | 17.06.2016 | 1,250 | 46.50 | 46.00 | 47.00 | 97.1 | 0.66 | 809 | CC/Ca/CCC- |
| Ukraine-16 | UKRAIN | 6.58 | 21.11.2016 | 1,000 | 46.63 | 46.00 | 47.25 | 69.3 | 1.05 | -235 | CC/Ca/CCC- |
| Ukraine-17 | UKRAIN | 9.25 | 24.07.2017 | 2,600 | 46.30 | 45.84 | 46.76 | 54.1 | 1.43 | -609 | CC/Ca/CCC- |
| Ukraine-17 | UKRAIN | 6.75 | 14.11.2017 | 700 | 45.50 | 44.75 | 46.25 | 45.7 | 1.82 | -555 | CC/Ca/CCC- |
| Ukraine-20 | UKRAIN | 7.75 | 23.09.2020 | 1,500 | 46.27 | 45.82 | 46.73 | 27.5 | 3.41 | -44 | CC/Ca/CCC- |
| Ukraine-21 | UKRAIN | 7.95 | 23.02.2021 | 1,500 | 46.50 | 46.00 | 47.00 | 26.6 | 3.52 | -16 | CC/Ca/CCC- |
| Ukraine-22 | UKRAIN | 7.8 | 28.11.2022 | 2,250 | 46.49 | 46.00 | 46.98 | 23.1 | 4.06 | 167 | CC/Ca/CCC- |
| Ukraine-23 | UKRAIN | 7.5 | 17.04.2023 | 1,250 | 47.39 | 46.82 | 47.95 | 21.7 | 4.61 | 495 | CC/Ca/CCC- |
| Fin. of infr. pr.-17 | UKRINF | 8.38 | 03.11.2017 | 568 | 45.50 | 44.50 | 46.50 | 48.9 | 1.72 | -446 | -/Ca/- |
| Fin. of infr. pr.-17 | UKRINF | 9 | 07.12.2017 | 550 | 45.75 | 45.00 | 46.50 | 48.2 | 1.63 | -708 | -/(P)Ca/- |
| Fin. of infr. pr.-18 | UKRINF | 7.4 | 20.04.2018 | 690 | 45.50 | 44.50 | 46.50 | 41.2 | 2.08 | -522 | -/Ca/- |
| Municipals | | | | | | | | | | | |
| City of Kiev-15 | CITKIE | 8 | 06.11.2015 | 250 | 49.84 | 48.68 | 51.00 | 235.5 | 0.22 | 10,617 | CC/Ca/CC |
| City of Kiev-16 | CITKIE | 9.38 | 11.07.2016 | 300 | 48.00 | 46.00 | 50.00 | 92.1 | 0.70 | 547 | CC/Ca/CC |
| Corporates | | | | | | | | | | | |
| Mriya-16 | MRIYA | 10.95 | 30.03.2016 | 250 | 13.96 | 13.25 | 14.67 | flat | 0.27 | - | WD/-/NR |
| Mriya-18 | MRIYA | 9.45 | 19.04.2018 | 400 | N/A | N/A | N/A | flat | 1.78 | - | WD/-/NR |
| Ukrlandfarming-18 | UKRLAN | 10.88 | 26.03.2018 | 500 | 51.56 | 50.13 | 53.00 | 41.3 | 1.90 | -837 | WD/-/CC |
| Ferrexpo-16 | FXPOLN | 7.88 | 07.04.2016 | 500 | 85.08 | 84.35 | 85.80 | 28.2 | 0.74 | -5,629 | CCC/Caa3/CCC+ |
| Ferrexpo-19 | FXPOLN | 10.38 | 07.04.2019 | 161 | 84.25 | 83.50 | 85.00 | 16.0 | 2.61 | -2,189 | CCC/Caa3/CCC+ |
| MHP-20 | MHPSA | 8.25 | 02.04.2020 | 750 | 83.95 | 83.09 | 84.80 | 12.8 | 3.73 | -1,190 | CCC/-/CCC- |
| DTEK-18 | DTEKUA | 7.88 | 04.04.2018 | 750 | 45.83 | 44.83 | 46.83 | 42.2 | 2.00 | -551 | C/Ca/- |
| Metinvest-15 | METINV | 10.25 | - | 500 | 70.33 | 69.00 | 71.67 | flat | 6.96 | - | NR/WR/- |
| Metinvest-17 | METINV | 10.5 | 28.11.2017 | 290 | 59.50 | 58.00 | 61.00 | 36.4 | 1.16 | -3,169 | C/-/- |
| Metinvest-18 | METINV | 8.75 | 14.02.2018 | 750 | 56.88 | 56.00 | 57.75 | 34.3 | 1.97 | -1,409 | C/Caa3/- |
| Ukraine Railways-18 | RAILUA | 9.5 | 21.05.2018 | 500 | 56.52 | 55.67 | 57.38 | 33.6 | 2.02 | -1,377 | C/-/CC |
| Avangard-15 | AVINPU | 10 | 29.10.2015 | 200 | 55.50 | 53.00 | 58.00 | 199.6 | 0.24 | 7,280 | WD/ /- |
| Interpipe-17 | INPIP | 10.25 | 02.08.2017 | 200 | 27.50 | 25.00 | 30.00 | 102.6 | 1.11 | 3,310 | C/-/NR |
| Banks | | | | | | | | | | | |
| PrivatBank-15 | PRBANK | 9.38 | 23.09.2015 | 200 | 65.50 | 64.00 | 67.00 | 167.1 | 0.21 | -13,492 | CC/Cau/CCC- |
| PrivatBank-16 (sub.) | PRBANK | 5.80 | 09.02.2016 | 150 | 44.50 | 43.00 | 46.00 | 163.1 | 0.38 | 5,369 | -/Cu/- |
| Privatbank-18 | PRBANK | 10.88 | 28.02.2018 | 175 | 65.50 | 64.00 | 67.00 | 30.1 | 2.00 | -1,766 | CC/Cau/CCC- |
| Ukreximbank-15 | EXIMUK | 8.38 | 27.07.2015 | 750 | 75.50 | 74.00 | 77.00 | flat | 0.13 | - | RD/Ca/- |
| Ukreximbank-16 (sub.) | EXIMUK | 5.79 | 09.02.2016 | 125 | 49.00 | 47.00 | 51.00 | 139.5 | 0.41 | 3,283 | C/C/- |
| Ukreximbank-18 | EXIMUK | 8.75 | 22.01.2018 | 600 | 67.50 | 66.50 | 68.50 | 26.5 | 2.02 | -2,102 | C/Ca/- |
| Oschadbank-16 | OSCHAD | 8.25 | 10.03.2016 | 700 | 68.50 | 67.50 | 69.50 | 64.3 | 0.58 | -2,928 | CC/Ca/- |
| Oschadbank-18 | OSCHAD | 8.88 | 20.03.2018 | 500 | 67.50 | 66.50 | 68.50 | 25.7 | 2.16 | -1,912 | CC/Ca/- |
| Nadra-17 (restr.) | NADRA | 9.38 | 05.12.2017 | N/A | N/A | N/A | N/A | N/A | N/A | - | -/-/- |
| VAB Bank-19 (restr.) | VABANK | 9.00 | 14.06.2019 | 125 | 4.00 | 2.00 | 6.00 | flat | 1.50 | - | WD/WR/- |
| Fin&Credit-19 (restr.) | FICBUA | 9.25 | 25.01.2019 | 100 | 25.00 | 20.00 | 30.00 | 64.8 | 1.93 | 1,571 | -/-/- |
| PUMB-18 | PUMBUZ | 11.00 | 31.12.2018 | 275 | 52.50 | 51.00 | 54.00 | 34.5 | 1.89 | -1,537 | NR/WR/- |

Source: Bloomberg, ESCP

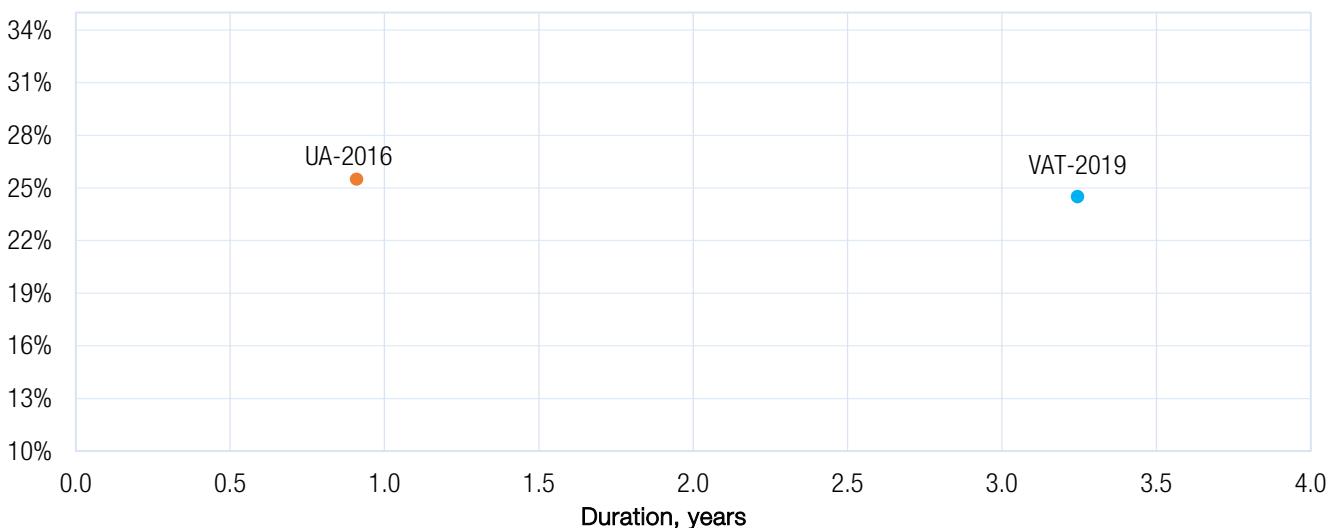
Eurobonds yield curve



Source: Bloomberg. Sovereign yield curve excludes short-term issues as outliers.

Duration, years

OVDP yield curve



Source: TRDATA

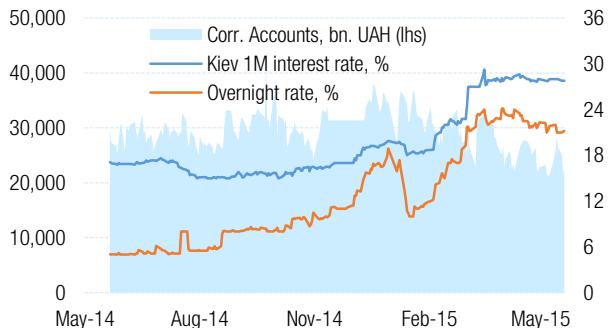
OVDP auction results

| Date | ISIN | Maturity | Coupon | Avg. YTM | Auction Bids, UAH mn | Amnt placed, UAH mn | Num. of bids accepted |
|------------|--------------|------------|--------|----------|----------------------|---------------------|-----------------------|
| 24.02.2015 | UA4000189021 | 01.02.2017 | 16.70% | 16.70% | 19 | 19 | 1 |
| 18.02.2015 | UA4000189294 | 17.03.2015 | 8.75% | 8.75% | USD 40 mn | USD 40 mn | 1 |
| 17.02.2015 | UA4000189294 | 17.03.2015 | 8.75% | 8.75% | USD 100 mn | USD 100 mn | 1 |
| 05.02.2015 | UA4000189013 | 24.03.2015 | 8.75% | 8.75% | USD 100 mn | USD 100 mn | 1 |
| 03.02.2015 | UA4000189021 | 01.02.2017 | 16.70% | 16.70% | 24 | 24 | 1 |
| 03.02.2015 | UA4000189013 | 24.03.2015 | 8.75% | 8.75% | USD 61 mn | USD 61 mn | 1 |
| 27.01.2015 | UA4000188940 | 24.04.2015 | 17.00% | 17.00% | 3,073 | 3,073 | 3 |
| 26.01.2015 | UA4000188940 | 24.04.2015 | 17.00% | 17.00% | 1,500 | 1,500 | 2 |
| 16.01.2015 | UA4000188791 | 01.04.2015 | 17.00% | 17.00% | 2,509 | 2,509 | 3 |
| 15.01.2015 | UA4000188791 | 01.04.2015 | 17.00% | 17.00% | 3,227 | 3,227 | 4 |
| 26.12.2014 | UA4000188536 | 11.12.2019 | 14.25% | 14.25% | 903 | 903 | 1 |
| 19.12.2014 | UA4000188429 | 04.12.2019 | 14.25% | 14.25% | 500 | 500 | 1 |
| 16.12.2014 | UA4000188429 | 04.12.2019 | 14.25% | 14.25% | 1,000 | 1,000 | 1 |
| 15.12.2014 | UA4000188379 | 23.11.2016 | 17.60% | 17.60% | 1,000 | 1,000 | 1 |

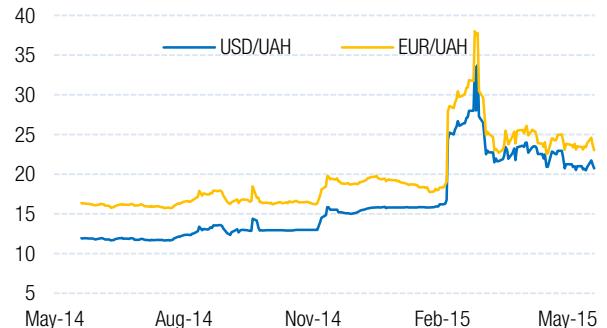
Source: Ministry of Finance of Ukraine

Fixed income/Currency/Commodities

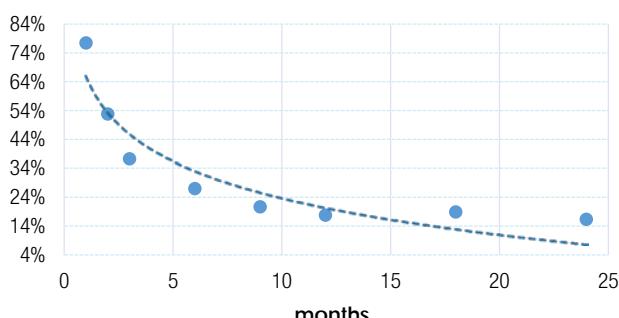
Liquidity indicators



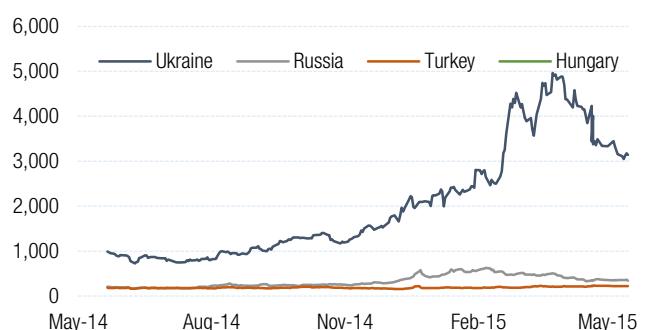
Exchange rate dynamics



UAH/USD NDF implied yield curve



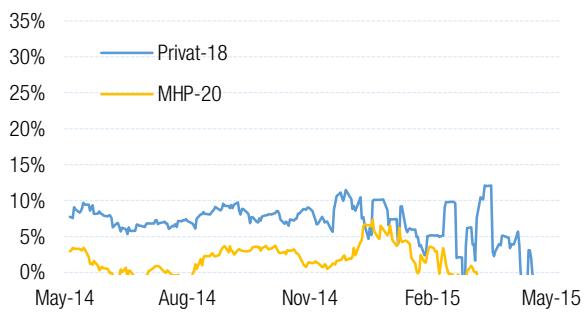
CDS USD 5Y: Ukraine and comparables



Spread of 10-y sov. issue to U.S. Treasuries



Spread of corp. issues to Ukraine gov. bonds



S&P GSCI Agriculture index



Ukraine hot-rolled coil, FOB \$/t



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