OPIS Europe LPG & Naphtha Report

OPIS A DOW JONES COMPANY

A Daily Report on Europe LPG and Naphtha Spot Prices with News and Commentary

16 May 2023

ICE Brent Futures at 16:30

| Brent Crude Oil (\$/bbl) | | | | | | |
|--------------------------|-------|--------|--|--|--|--|
| Month | Price | Change | | | | |
| JUL | 74.93 | -0.28 | | | | |
| AUG | 74.75 | -0.23 | | | | |
| SEP | 74.43 | -0.20 | | | | |

Energy Futures at Settlement

| WTI Crude Oil (\$/bbl) | | | | | | |
|------------------------|-------------------------|--|--|--|--|--|
| Month Price Change | | | | | | |
| 71.05 | -0.06 | | | | | |
| 71.04 | -0.05 | | | | | |
| 70.82 | -0.09 | | | | | |
| | Price 71.05 71.04 | | | | | |

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SPOT MARKET QUIET AS IMPORTS FLOW IN

The CIF ARA propane swap for June was marked at \$430/mt inside the 4:00-4:30 p.m. BST timeframe, up by \$4/mt. The inter-month propane swap spread for June-July ended steady at a \$4/mt contango.

In the physical CIF ARA propane market no activity was seen for a second session. The value to market was less deep, confirmed by a market source as "... for sure at least -10 [to] -15."

OPIS assessed the CIF ARA propane large-cargo sector at -\$12.50/mt to June quotes. In the large-cargo butane sector no activity was seen, leaving the OPIS assessed price for butane steady at 76% to May naphtha quotes.

Record monthly LPG imports to NW Europe in April at an estimated 650,000 metric tons have been followed in May by a further 590,000 tons according to OPIS data. Taken as a whole, at some 1.2 million tons, the imports equate to an average 20,000 tons per day across April and May. The imports are some 27% and 14% higher than for April and May 2022 respectively.

At the mid-May point, outright CIF ARA propane has reached a low for the year at \$405/mt, with contango in the market through to the end of the year according to futures prices. At the same time, \$405/mt is a price at which the netback to the U.S. Gulf Coast broadly moved into the negative Tuesday, leaving no margin for terminalling fees and leaving the economics for further imports less profitable.

Over 90% of LPG imports to NW Europe for May are destined for the feedstock pool. A combination of deep discounts to naphtha for propane and butane and continued reduced availabilities from the North Sea have been the spur for the higher level of imports. The

(Continued on Page 3)

OPIS LPG Settle Prices (\$/mt)

| Location | Low | High | Mean | Change | MTD Avg |
|---------------------------|--------|--------|--------|--------|---------|
| Propane CIF ARA | 415.50 | 419.50 | 417.50 | +12.00 | 425.500 |
| Butane CIF ARA (+4,000mt) | 435.00 | 439.00 | 437.00 | +4.50 | 443.500 |
| Propane FOB Med | 463.00 | 467.00 | 465.00 | +10.00 | 476.500 |
| Butane FOB Med | 388.00 | 392.00 | 390.00 | +5.00 | 414.400 |

OPIS CIF ARA Propane Swaps (\$/mt)

| | Mean | Change |
|-----------------------------|--------|--------|
| June 4:00-4:30pm | 430.00 | +4.00 |
| Physical-Paper Differential | -12.50 | +8.00 |

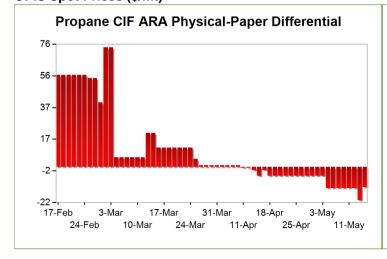
OPIS LPG Mont Belvieu Snapshot (\$/mt)

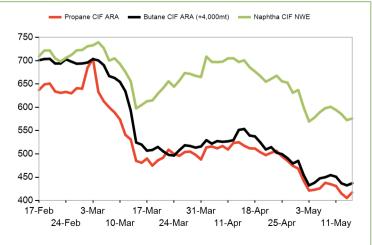
| Location | Mean | Change | MTD Avg |
|------------------------------|--------|--------|---------|
| Mont Belvieu Non-TET Propane | 331.49 | -2.61 | 348.123 |
| Mont Belvieu Non-TET Butane | 328.43 | -2.83 | 346.185 |

OPIS Naphtha Settle Prices (\$/mt)

| | Mean | Change | MTD Avg | Diff to Flat Price |
|---------------------------------------|--------|--------|---------|--------------------|
| Naphtha CIF NWE (4:00-4:30pm UK time) | 576.00 | 3.50 | 586.425 | |
| Open-Spec Naphtha | 574.00 | 3.50 | 584.425 | -2.00 |
| Paraffinic Naphtha | 619.00 | 3.50 | 629.425 | 43.00 |

OPIS Spot Prices (\$/mt)





| OPIS Global Spot LPG Prices (\$/mt) | | Pro | pane | Butane | | |
|-------------------------------------|-------------|--------|--------|--------|--------|--|
| | Date | Price | Change | Price | Change | |
| CIF ARA | 16-May-2023 | 417.50 | +12.00 | 437.00 | +4.50 | |
| CFR Japan | 16-May-2023 | 511.75 | +4.50 | 504.75 | +6.50 | |
| Mont Belvieu Non-TET | 15-May-2023 | 325.30 | -6.84 | 325.59 | -7.36 | |
| FOB Arab Gulf | 16-May-2023 | 463.00 | +2.00 | 456.00 | +4.00 | |

OPIS 44,000mt VLGC Freight Rates (\$/mt)

| Route | Rate | Change | NWE C3 | NWE C4 | Route | Rate | Change | NWE C3 | NWE C4 |
|------------|-------|--------|---------|---------|------------|-------|--------|---------|---------|
| | | | Netback | Netback | | | | Netback | Netback |
| AG - Japan | 97.00 | +2.50 | | | USGC - NWE | 84.50 | +1.00 | 333.00 | 352.50 |

| May LPG Posted Prices (\$/mt) | Pro | pane | Butane | | |
|-------------------------------|--------|--------|--------|--------|--|
| | Price | Change | Price | Change | |
| Saudi Arabia FOB | 555.00 | 0.00 | 555.00 | +10.00 | |
| Algeria FOB | 485.00 | -10.00 | 490.00 | -20.00 | |
| North Sea | 464.50 | -12.00 | 470.00 | -23.00 | |

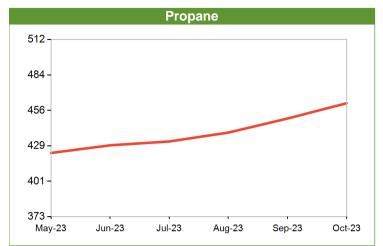
OPIS End of Day NWE Forwards Prices (\$/mt)

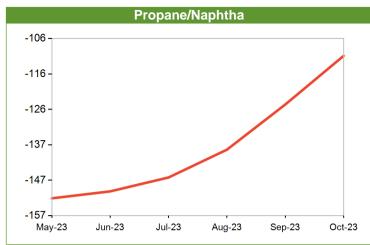
| OPIS End of Da | IN IN WE FORW | ards Prices (3 | mt) | | | | | |
|-----------------|---------------|----------------|--------|--------|-------------|---------|---------|--------|
| Month | Min | Max | Mean | Change | Time Spread | Pro/Nap | Naphtha | Change |
| MAY 2023 | 421.00 | 425.00 | 423.00 | +4.00 | -6.00 | -152.00 | 575.00 | +6.00 |
| JUN 2023 | 427.00 | 431.00 | 429.00 | +3.00 | -3.00 | -150.00 | 579.00 | +4.00 |
| JUL 2023 | 430.00 | 434.00 | 432.00 | +2.00 | -7.00 | -146.00 | 578.00 | +1.00 |
| AUG 2023 | 437.00 | 441.00 | 439.00 | +2.00 | -11.00 | -138.00 | 577.00 | 0.00 |
| SEP 2023 | 448.00 | 452.00 | 450.00 | +2.00 | -12.00 | -125.00 | 575.00 | -1.00 |
| OCT 2023 | 460.00 | 464.00 | 462.00 | +1.00 | -9.00 | -111.00 | 573.00 | -2.00 |
| NOV 2023 | 469.00 | 473.00 | 471.00 | +1.00 | -2.00 | -99.00 | 570.00 | -3.00 |
| DEC 2023 | 471.00 | 475.00 | 473.00 | +2.00 | +2.00 | -94.00 | 567.00 | -4.00 |
| JAN 2024 | 469.00 | 473.00 | 471.00 | +2.00 | +6.00 | -94.00 | 565.00 | -4.00 |
| FEB 2024 | 463.00 | 467.00 | 465.00 | +3.00 | +19.00 | -98.00 | 563.00 | -4.00 |
| MAR 2024 | 444.00 | 448.00 | 446.00 | +1.00 | +18.00 | -114.00 | 560.00 | -4.00 |
| APR 2024 | 426.00 | 430.00 | 428.00 | -1.00 | +5.00 | -128.00 | 556.00 | -4.00 |
| MAY 2024 | 421.00 | 425.00 | 423.00 | -1.00 | | -131.00 | 554.00 | -4.00 |
| Q2 2023 | 424.00 | 428.00 | 426.00 | +3.00 | -14.00 | -151.00 | 577.00 | +5.00 |
| Q3 2023 | 438.00 | 442.00 | 440.00 | +1.00 | -29.00 | -136.00 | 576.00 | -1.00 |
| Q4 2023 | 467.00 | 471.00 | 469.00 | +1.00 | +8.00 | -101.00 | 570.00 | -3.00 |
| Q1 2024 | 459.00 | 463.00 | 461.00 | +2.00 | +36.00 | -102.00 | 563.00 | -4.00 |
| Q2 2024 | 423.00 | 427.00 | 425.00 | 0.00 | | -129.00 | 554.00 | -4.00 |
| CAL 2023 | 445.00 | 449.00 | 447.00 | +1.00 | +9.00 | -127.00 | 574.00 | 0.00 |
| CAL 2024 | 436.00 | 440.00 | 438.00 | 0.00 | | -113.00 | 551.00 | -6.00 |

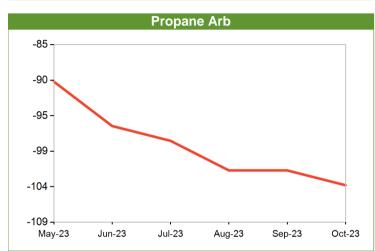
OPIS Global Propane Forward Prices (\$/mt)

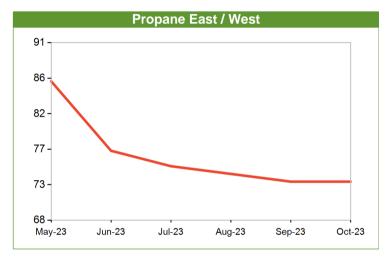
| Month | Belv. | Change | Arb | СР | Change | FEI | Change | E/W |
|-----------------|--------|--------|---------|--------|--------|--------|--------|--------|
| MAY 2023 | 333.00 | 0.00 | -90.00 | | | 509.00 | +1.00 | +86.00 |
| JUN 2023 | 333.00 | 0.00 | -96.00 | 487.00 | 0.00 | 506.00 | +1.00 | +77.00 |
| JUL 2023 | 334.00 | -1.00 | -98.00 | 481.00 | 0.00 | 507.00 | +1.00 | +75.00 |
| AUG 2023 | 337.00 | 0.00 | -102.00 | 483.00 | +1.00 | 513.00 | +1.00 | +74.00 |
| SEP 2023 | 348.00 | 0.00 | -102.00 | 491.00 | +1.00 | 523.00 | +1.00 | +73.00 |
| OCT 2023 | 358.00 | 0.00 | -104.00 | 503.00 | +1.00 | 535.00 | 0.00 | +73.00 |
| NOV 2023 | 365.00 | +1.00 | -106.00 | 512.00 | +1.00 | 544.00 | 0.00 | +73.00 |
| DEC 2023 | 368.00 | +1.00 | -105.00 | 516.00 | 0.00 | 545.00 | +1.00 | +72.00 |
| JAN 2024 | 370.00 | +1.00 | -101.00 | 516.00 | 0.00 | 541.00 | 0.00 | +70.00 |
| FEB 2024 | 368.00 | +1.00 | -97.00 | 509.00 | -1.00 | 532.00 | +1.00 | +67.00 |
| MAR 2024 | 355.00 | +1.00 | -91.00 | 490.00 | -1.00 | 511.00 | +1.00 | +65.00 |
| APR 2024 | 341.00 | 0.00 | -87.00 | 470.00 | -2.00 | 490.00 | 0.00 | +62.00 |
| MAY 2024 | 337.00 | +2.00 | -86.00 | 461.00 | -3.00 | 483.00 | -1.00 | +60.00 |
| Q2 2023 | 333.00 | 0.00 | -93.00 | 487.00 | 0.00 | 507.00 | +1.00 | +81.00 |
| Q3 2023 | 340.00 | 0.00 | -100.00 | 485.00 | +1.00 | 514.00 | +1.00 | +74.00 |
| Q4 2023 | 364.00 | +1.00 | -105.00 | 510.00 | +1.00 | 542.00 | +1.00 | +73.00 |
| Q1 2024 | 364.00 | +1.00 | -97.00 | 505.00 | 0.00 | 528.00 | +1.00 | +67.00 |
| Q2 2024 | 338.00 | +1.00 | -87.00 | 462.00 | -2.00 | 484.00 | -1.00 | +59.00 |
| CAL 2023 | 347.00 | 0.00 | -100.00 | 496.00 | +1.00 | 523.00 | +1.00 | +76.00 |
| CAL 2024 | 350.00 | +3.00 | -88.00 | 470.00 | -2.00 | 497.00 | -1.00 | +59.00 |

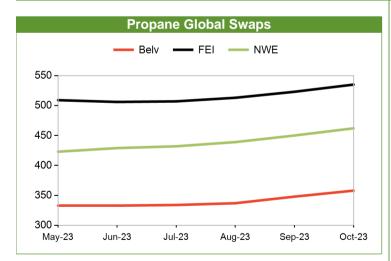
OPIS 6-Month Forward Curve (\$/mt)











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June spread for propane/naphtha ended at -\$150/mt from -\$152/mt, while butane has been similarly lower to naphtha, ending Tuesday at -\$140/mt. The spreads for May have maintained similar levels to these since the start of the month.

In the North Sea, LPG exports reached 170,000 tons at the mid-month point. Although still down on more typical monthly volumes, May exports have been seen to tick slightly higher. Since late 2021, a portion of LPG produced in the North Sea has been re-injected into the natural gas stream where it has been finding more value on a heat equivalent basis. This week however has seen CIF ARA butane break through parity into the positive against natural gas, while propane continues to find more value inside the gas stream.

The Dutch ICE futures TTF price, indicative of European natural gas prices, averaged the equivalent of \$9.40/MMBtu, down by 10cts/MMBtu, according to ICE data. CIF ARA propane equated to \$8.70/MMBtu, no change day to day, and CIF ARA butane at \$9.50/MMBtu, also no change on day, and now narrowly above TTF natural gas futures.

CIF ARA BUTANE 76% TO MAY NAPHTHA

NO PHYSICAL ACTIVITY

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OPIS Europe LPG & Naphtha Report Methodology

OPIS assesses daily spot propane and butane and naphtha prices at the key trading hubs in northwest Europe and the Mediterranean region. Editors record and confirm deals, bids and offers, analyse supply and demand fundamentals, and gauge market sentiment and outlook. Prices are quoted in US dollars per metric ton. Times quoted are that of the United Kingdom.

In the northwest European propane market, OPIS assesses cargoes CIF basis Flushing for 10-25 days forward delivery. The grade and quality, delivery and nomination terms are based on the prevailing, industry-accepted forward contract, such as the TOT contract. Positions referencing alternative forward delivery contracts will be considered if the dates fall into the 10-25 day forward delivery range. The volume for the assessment of CIF ARA Propane cargoes in the OPIS Europe LPG & Naphtha Report is a nominal 22,000 metric tons with a plus/minus 5% tolerance. The cargo quantity range considered for assessment will therefore be 20,900 – 23,100 metric tons in the seller's option.

Butane prices are for field grade mixed butane cargoes above 4,000mt delivered 10-25 days forward basis CIF ARA.

In the Mediterranean, OPIS assesses field grade and refinery grade propane and butane FOB basis Lavera 5-15 days forward. Cargo sizes are 1,500mt and above.

The physical flat naphtha price assessment is based on public physical spot deals transacted between 4:00-4:30pm London time. The delivery period assessed is a forward 10-25 delivery window basis CIF NWE, also termed CIF Rotterdam. The typical cargo size for assessment purposes will be in the range 12.5-25kt and deals done in larger volumes may at times be included at the discretion of the editor.

OPIS assesses on a full day basis for the Open Spec and for Paraffinic grade (LVN) naphtha (basis min 80% paraffins).

For further details on the LPG or naphtha methodology see www.opisnet.com/about/methodology.aspx

OPIS contacts a cross-section of market participants daily. Information published is according to the best available data on the day and is subject to change. Please direct any enquiries to energylpedseurope@opisnet.com

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(Continued from Page 3) NWE LPG IMPORTS

MAY

- Clermont, ex MHK, ldg early-May, est. 46kt LPG, ETA Stenungsund 23 May
- BW Mindoro, ex Houston, Idg early-May, est. 46kt LPG, ETA Porvoo 23 May
- Sarv Shakti, ex MHK, ldg early-May, est. 46kt LPG, ETA Terneuzen 20 May
- Navigator Genesis, ex Houston, ldg early-May, est. 12kt LPG, ETA Rotterdam 19 May
- Chinook, ex MHK, ldg early-May, est. 46kt LPG, arr Terneuzen 15 May
- Clipper Neptun, ex Trinidad, ldg early-May, est. 34kt LPG, arr Antwerp 12 May
- Clipper Vanguard, ex Houston, ldg late-April, est. 46kt LPG, arr Immingham 11 May
- BW Tucana, ex Houston, ldg mid-April, est. 46kt LPG, arr Porvoo 10 May, arr Stenungsund 14 May
- BW Tokyo, ex Houston, ldg late-April, est. 46kt LPG, arr Antwerp 9 May
- Oriental Jubilee, ex MHK, ldg late-April, est. 46kt LPG, arr Terneuzen 8 May
- Permian Lady, ex MHK, ldg late-April, est. 20kt LPG, arr Antwerp 8 May
- Myklebust, ex MHK, ldg late-April, est. 20kt LPG, arr Rafnes 7 May
- G Forever, ex MHK, ldg late-April, est. 46kt LPG, arr AGT 15 May
- Cheyenne, ex Houston, ldg mid-April, est. 46kt LPG, arr Antwerp 5 May
- Mercator, ex Houston, ldg mid-April, est. 46kt LPG, arr Flushing 4 May

NWE LPG EXPORTS

MAY

- Navigator Yauza, ex Fawley, ldg mid-May, est. 12kt LPG, ETA TBD
- Kingston, ex Brofjorden, ldg early-May, est. 5kt LPG, ETA Dakar 18 May
 - **unconfirmed
- --Dermot McGowan, dmcgowan@opisnet.com (Europe LPG)

FOB U.S. GULF COAST LPG

FOB USGC PROPANE H2 JUN LOW / HIGH / MEAN 5.000/5.500/5.250

FOB USGC PROPANE H1 JUL LOW / HIGH / MEAN 5.000/5.500/5.250

FOB U.S. Gulf Coast propane resale values on Tuesday held steady for the second half of June, with first-half July pegged the same, as activity continued to stagnate.

OPIS assessed the two periods at 5-5.5cts/gal over Mont Belvieu based on market feedback.

Deals have been sparse lately, although sources have noted that there are some open slots available for the end of June.

The three OPIS-assessed freight routes increased once again, with AG-Japan up \$2.50/t to \$97/t, Houston-Flushing

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up \$1/t to \$84.50/t and Houston-Chiba via the Panama Canal up \$0.50/t to \$141.50/t. Some sources noted there is a scarcity of available VLGCs at present, with none seen in the Arab Gulf and only a small number open in the U.S. and the East.

These three routes have each risen or held steady over the past 10 sessions, according to OPIS pricing data. Since May 2, AG-Japan has climbed 33.8%, Houston-Flushing increased 12.7% and Houston-Chiba picked up 9.7%.

Implied netbacks widened on Tuesday, showing favorable values for U.S. cargoes into Asian markets at 7.5cts/gal for H2 June and 8.5cts/gal for H1 July, each up almost 2cts. Netbacks into Europe only firmed up a fraction of a cent to 2.375cts/gal for each period.

--Jessica Marron, jmarron@opisnet.com (FOB USGC)

NAPHTHA UP AS BRENT DOWN

The June CIF NWE naphtha swap ended at \$579/mt inside the 4:00 to 4:30 p.m. BST timeframe, up by \$4/mt. Brent crude for July lost half a dollar on the day to end at \$74.93/bbl at 4:30 p.m. U.K. time on ICE.

The naphtha crack spread for May tightened ending at -\$10.23/bbl, from -\$11.23/bbl. The EBOB crack for May was up by 63cts/bbl to +\$19.75/bbl on day.

The East/West spread for naphtha narrowed to +\$7/mt from +\$11.25/mt.

OPIS assessed the naphtha flat price at \$576/mt, equivalent to -\$3/mt to June reference month quotes.

Outright gasoline for May ended at \$787/mt, up by \$2/mt. The gasoline/naphtha spread for the same month narrowed by \$4/mt to +\$212/mt.

OPIS marked Open Specification Naphtha (OSN) was unchanged at -\$2/mt to flat. The premium to flat for paraffinic naphtha was unchanged at +\$43/mt.

--Dermot McGowan, dmcgowan@opisnet.com (Naphtha)

U.S. ETHANE PRICES DELIVERED NORTHWEST EUROPE RISE

Notional CIF NWE Ethane ex-Marcus Hook -- \$277.86/mt, up by \$14.13/mt.

Notional CIF NWE Ethane ex-Morgan's Point -- \$328.16/mt, up by \$7.44/mt.

--Dermot McGowan, dmcgowan@opisnet.com (Ethane)

BOREALIS 625,000 MT/YEAR ETHYLENE CRACKER IN SWEDEN ONLINE AFTER TURNAROUND

Borealis has resumed operations at its 625,000 metric ton/year ethane, propane and butane (EPB)-fed cracker in Stenungsund, Sweden, after maintenance work was completed earlier this month, a company spokesperson told OPIS Tuesday.

"We are back in normal operations in Stenungsund after completion of the planned maintenance," the spokesperson said. Maintenance started at the ethylene cracker on April 10 and the plant was expected to resume operations during the week beginning May 8, according to Borealis.

The mixed-feed cracker, situated outside Gothenburg in the Southwest of Sweden, produces 250,000 mt/year of propylene, according to data from Chemical Market Analytics by OPIS, a Dow Jones company.

Borealis uses ethylene and propylene from the Stenungsund plant as raw materials to produce high-density and low-density polyethylene. It also operates a 380,000 mt/year cracker in Porvoo, Finland, which will undergo maintenance in the third quarter of this year, along with the benzene and polyolefin units, Borealis told OPIS.

Borealis is owned by Austrian-based energy major OMV (75%) and Abu-Dhabi investment firm Mubadala (25%).

--Reporting by Fahima Mathé, fmathé@opisnet.com; Editing by Rob Sheridan, rsheridan@opisnet.com

EU'S BORRELL CALLS ON MEMBERS TO STOP BUYING RUSSIAN OIL REFINED IN INDIA

Josep Borrell, the European Union's chief diplomat, said that EU member states should act to halt oil imports from India that are refined from Russian crude.

The High Representative of the Union for Foreign Affairs and Security Policy told the Financial Times that EU countries "have to take measures" if diesel and gasoline produced with Russian oil is entering Europe from India.

The European Union has banned imports of seaborne Russian crude oil and refined products in response to the invasion of Ukraine. But countries such as India have stepped in to take advantage of discounted Russian crude prices, which it buys, refines and exports to the West.

The International Energy Agency said Tuesday that Russian crude exports rose to an 11-month high in April despite the sanctions, with China and India taking 2.1 and 2 million barrels/day, respectively, around 80% of Russia's total exports.

"That India buys Russian oil, it's normal. And if, thanks to our limitations on the price of oil, India can buy this oil much cheaper, well the less money Russia gets, the better. But if they use that in order to be a centre where Russian oil is being refined and by-products are being sold to us? ... we have to act," Borrell said, according to the FT.

Finland-based Centre for Research on Energy and Clean Air (CREA) said in a report published in April that China, India, Turkey, United Arab Emirates and Singapore have become the main importers of Russian crude since the West's sanctions kicked in. Refined oil product exports from these five countries to the West increased by 26% in the year after the invasion.

To stop this from happening, CREA recommended banning imports from refineries receiving Russian crude, or alternatively requiring companies to provide documentation showing that the origin of the crude was not Russian.

The Financial Times is owned by Japanese media group Nikkei.

--Reporting by Jaime Llinares Taboada, illinares@opisnet.com; Editing by Rob Sheridan, rsheridan@opisnet.com

LOW CARBON SECURES \$676 MILLION IN FUNDING FOR UK, EUROPE SOLAR PV EXPANSION

Low Carbon, a privately-owned U.K. investment and asset management company, said Tuesday it has now secured a total investment of £540 million (\$676 million) to build a solar PV network across the U.K. and the wider European region.

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The total investment has grown due to Low Carbon securing an extra £310 million in debt financing for an additional 448 megawatts of solar PV capacity, which brings its total solar PV pipeline under construction in the region to approximately 1 gigawatt (GW).

Low Carbon's solar PV pipeline under construction in the U.K. and Europe is supported by funding from ABN AMRO, ING, the Commonwealth Bank of Australia and Intesa Sanpaolo, as well as investment from NatWest, Lloyds Bank and AIB.

Low Carbon claims the 1GW solar PV capacity will provide enough renewable energy for approximately 350,000 homes, reducing the amount of carbon dioxide equivalent emitted by 300,000 metric tons.

"Deploying nearly 1GW of solar PV capacity will play a significant role in helping us to deliver our strategic goal of creating 20GW of new renewable energy capacity by 2030," Low Carbon chief executive officer Roy Bedlow said in a statement.

--Reporting by Rob Sheridan, rsheridan@opisnet.com; Editing by Anthony Lane, alane@opisnet.com