

LPGaswire

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Asia LPG (\$/mt) (PGL page 2780)

	Code		Mid	Change		Code	Mid	Change	
<u>CFR Refrigerated</u>					<u>Diffs to Saudi CP Month 01</u>				
11:11 North Asia (H2 Oct)	AASG000		721.000	+ 1.500					
11:11 North Asia (H1 Nov)	AASGP00		720.500	+ 1.000					
11:11 North Asia (H2 Nov)	AASGQ00		718.500	+ 3.000					
11:11 North Asia cargo*	AASGN00		720.750	+ 1.250					
Propane North Asia cargo (H2 Oct)	AAVAK00	713.00-715.00	714.000	+1.000	Propane North Asia	PMAAX00	143.00/145.00	144.000	0.000
Propane North Asia cargo (H1 Nov)	AAVAL00	713.00-714.00	713.500	+0.500					
Propane North Asia cargo (H2 Nov)	AAVAM00	711.00-712.00	711.500	+2.500					
Propane North Asia cargo*	PMAAV00	713.00-714.00	713.500	+0.500					
Propane South China cargo	AABAK00	725.00-727.00	726.000	+2.000	Propane South China	AABAI00	155.00/157.00	156.000	+1.000
Propane Taiwan cargo	AABAN00	726.00-728.00	727.000	+2.000	Propane Taiwan	AABAO00	156.00/158.00	157.000	+1.000
Butane North Asia cargo (H2 Oct)	AAVAN00	727.00-729.00	728.000	+2.000	Butane North Asia	PMAAH00	143.00/145.00	144.000	0.000
Butane North Asia cargo (H1 Nov)	AAVAO00	727.00-728.00	727.500	+1.500					
Butane North Asia cargo (H2 Nov)	AAVAP00	725.00-726.00	725.500	+3.500					
Butane North Asia cargo*	PMAAF00	727.00-728.00	727.500	+1.500					
Butane South China cargo	AABAU00	739.00-741.00	740.000	+3.000	Butane South China	AABAT00	155.00/157.00	156.000	+1.000
Butane Taiwan cargo	AABBH00	740.00-742.00	741.000	+3.000	Butane Taiwan	AABBI00	156.00/158.00	157.000	+1.000
<u>CFR Pressurized</u>					<u>Diffs to Saudi CP strip</u>				
LPG Vietnam	AAWUV00	679.00-680.00	679.500	+2.000	LPG Vietnam	AAWUW00	99.00/101.00	100.000	+1.000
LPG Philippines	AAWUX00	684.00-685.00	684.500	+2.000	LPG Philippines	AAWUY00	104.00/106.00	105.000	+1.000
<u>FOB Pressurized</u>					<u>Diffs to Saudi CP strip</u>				
LPG East China	AAWUZ00	671.00-672.00	671.500	+3.000	LPG East China	AAWVA00	91.00/93.00	92.000	+2.000
LPG South China	AAWVB00	671.00-672.00	671.500	+3.000	LPG South China	AAWVC00	91.00/93.00	92.000	+2.000
LPG Singapore	AAWVD00	671.00-672.00	671.500	+3.000	LPG Singapore	AAWVE00	91.00/93.00	92.000	+2.000

*An average of the first two half-month assessments

Middle East LPG (\$/mt) (PGL page 2776)

	Code		Mid	Change		Code	Mid	Change	
<u>FOB Arab Gulf</u>					<u>Diffs to Saudi CP Month 01</u>				
Propane cargo	PMUDM00	611.00-613.00	612.000	+5.000	Propane vs CP	PMABF00	41.00/43.00	42.000	+4.000
Butane cargo	PMUDR00	625.00-627.00	626.000	+6.000	Butane vs CP	PMABG00	41.00/43.00	42.000	+4.000

Market Commentary

Platts Asian LPG Daily Commentary

- CFR North Asia LPG prices inch higher ignoring Brent drop
 - Oct FEI propane discount to MOPJ naphtha widens \$1.5/mt to \$8/mt
- CFR North Asia LPG prices edged up Sept. 25, shrugging off December ICE Brent crude futures' \$2.72/mt dip from the previous Asian close, as demand sentiment held steady.

Platts assessed front-cycle CFR North Asia H2 October delivery propane at \$714/mt Sept. 25, up \$1/mt from the previous session.

The premium of H2 October CFR North Asia propane against the October CP was valued Sept. 25 at \$144/mt, unchanged from the previous session.

The premium of H1 November CFR North Asia propane against the November CP was valued at \$133.5/mt Sept. 25, up 50 cents/mt compared with the previous session.

The premium of October butane compared with propane widened by \$1/mt from the previous session to \$14/mt on Sept. 25.

Two bids and no offer were seen in the physical market Sept. 25, with no trade heard.

Wellbred bid for 23,000 mt of propane for H2 October delivery, at October FEI plus \$3.5/mt, which equated to \$707.5/mt. The bid was standing at the close.

(continued on page 3)

European LPG (\$/mt) (PGL page 1775)

Code		Mid	Change	% of naphtha**	Code		Mid	Change	% of naphtha**				
Northwest Europe													
Propane FOB NWE Seagoing	PMABB00	607.75-608.25	608.000	+3.000	PMABBPT	86.64	Butane FOB NWE Seagoing	PMAAL00	645.75-646.25	646.000	-9.000	PMAALPT	92.06
Propane FOB ARA	PMAAS00	583.75-584.25	584.000	-9.000	PMASPT	83.22	Butane FOB ARA	PMAAC00	666.75-667.25	667.000	-10.000	PMAACPT	95.05
Propane FCA ARA*	PMABH00	624.75-625.25	625.000	0.000	PMABHPT	89.06	Butane FCA ARA*	PMABI00	670.75-671.25	671.000	-10.000	PMABIPT	95.62
Bio-Propane FCA NWE	ABPRA00		2356.250	-107.750			Butane CIF NWE Seagoing	PMAAJ00	680.75-681.25	681.000	-10.000	PMAAJPT	97.04
Bio-Propane FCA NWE Premium	ABPRB00		1800.000	-100.000									
Propane CIF NWE Large Cargo	PMABA00	556.00-556.50	556.250	-7.750	PMABAPT	79.27	Butane CIF NWE Large Cargo	PMAAK00	563.00-563.50	563.250	-42.250	PMAAKPT	80.26
Western Mediterranean													
Propane FOB Ex-Refinery/Storage	PMABC00	646.00-646.50	646.250	-7.750	PMABCPT	92.09	Butane FOB West Med Coaster	PMAAM00	638.75-639.25	639.000	-9.000	PMAAMPT	91.06
Propane FCA Ex-Refinery/Storage*	PMABJ00	656.00-656.50	656.250	-7.750	PMABJPT	93.52	Butane CIF Morocco***	ABTMA00		570.500	-2.250	ABTMB00	81.30
Propane CIF 7000+ mt	PMABE00	573.00-573.50	573.250	-7.750	PMABEPT	81.69							

*FCA ARA refers to sales onto railcars and trucks in the Amsterdam-Rotterdam-Antwerp region **Physical percentage versus Naphtha Cargoes CIF NWE (PAAAL00) ***CIF Morocco reflects Ex-USGC butane 45-60 days forward

Naphtha (\$/mt)

Code	Mid	Change
(PGA pages 1310, 1320 and 2006 and PGF page 760)		
Naphtha Cargoes CIF NWE	PAAAL00 701.50-702.00	701.750 -10.500
Naphtha Cargoes FOB Med	PAAAI00 648.75-649.25	649.000 -8.750
Naphtha C+F Japan Cargo	PAAAD00 713.25-714.75	714.000 -4.750
Naphtha Cargo FOB USGC	AAXJU00 646.80-646.90	646.850 0.000
Bionaphtha	PAAAU00	2101.750 -10.500
Bionaphtha premium	PAADU00	1400.000 0.000

Month to Date Averages (\$/mt)

Code	Mid	Change
Northwest Europe Month to Date (PGL page 1775)		
Propane FOB NWE Seagoing	PMUDI00 601.63-602.13	601.880 +0.380
Propane CIF NWE Large Cargo	PMUDK00 572.93-573.43	573.180 -1.050
Middle East Month to Date (PGL page 2776)		
Propane cargo	PMUD000 590.06-591.88	591.000 +1.500
Butane cargo	PMUDQ00 596.31-598.13	597.000 +2.000

LPG Shipping (\$/mt)

From:	To:	Product	Cargo size	Code	\$/mt
Asia (PGL page 2786)					
Persian Gulf	Japan	LPG	11-44kt	AAPNI00	183.50
Persian Gulf	South China	LPG	11-44kt	AAPNG00	178.50
Persian Gulf	East China	LPG	11-44kt	AAPNH00	181.50
Thailand	Guangzhou	LPG	1-3kt	AAPNJ00	265.50
Thailand	Guangxi	LPG	1-3kt	AAPNK00	263.50
Thailand	Shantou	LPG	1-3kt	AAPNL00	266.50
Japan	Shanghai	LPG	1-3kt	AAPNM00	215.50
Korea	Shanghai	LPG	1-3kt	AAPNN00	200.50

Europe (PGL page 1775)

Lavera	Mohammedia	LPG	4kt	ALPGA00	65.00
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LPG Postings (\$/mt)

	Outright
Saudi contract postings (PGL page 2790)	
Saudi Propane (Sep)	PTAAM10 550.00
Saudi Butane (Sep)	PTAAF10 560.00
Algerian contract postings (PGL page 1790)	
Propane FOB Bethouia (Sep)	PTAAI10 530.00
Propane FOB Skikda (Sep)	PTAAJ10 530.00
Butane FOB Algeria (Sep)	PTAAC10 550.00
Nigerian postings (PGL page 1790)	
Butane FOB Nigeria (Aug)	ABUTA00 393.75
Escravos Condensate FOB Nigeria (Aug)	AECRA00 580.05
Escravos LPG Mix FOB Nigeria (Aug)	AESVA00 224.47
Isobutane FOB Nigeria (Aug)	AIBUA00 393.75
Pentane Plus FOB Nigeria (Aug)	APENA00 587.14
Propane FOB Nigeria (Aug)	APRNA00 353.55
Differential*	
Butane FOB Nigeria (Aug)	ABUTB00 -149.24
Escravos Condensate FOB Nigeria (Aug)	AECRB00 -63.56
Escravos LPG Mix FOB Nigeria (Aug)	AESVB00 -135.71
Isobutane FOB Nigeria (Aug)	AIBUB00 -149.24
Pentane Plus FOB Nigeria (Aug)	APENB00 -55.40
Propane FOB Nigeria (Aug)	APRNB00 -149.24

*Diff to the monthly average of related LPG market.

NYMEX Settlements (PGA page 701)

	\$/barrel
Light sweet crude (Nov)	AAWS001 89.68
Light sweet crude (Dec)	AAWS002 88.17
Light sweet crude (Jan)	AAWS003 86.70
\$/MMBtu	
Natural gas (Oct)	NMNG001 2.64

Propane swaps

Code	Mid	Change
Northwest Europe (\$/mt) (PGL page 1775)		
M1 (Oct)	AAHIK00 569.00-573.00	571.000 -8.000
M2 (Nov)	AAHIM00 573.00-577.00	575.000 -7.000
M3 (Dec)	AAHIO00 574.00-578.00	576.000 -7.000
Q1 (Q4 2023)	AAHIL00 583.25-587.25	585.250 0.000
Q2 (Q1 2024)	AAHIN00 564.50-568.50	566.500 -0.250
US Gulf Coast (¢/gal) (PGA page 780)		
M1 (Oct)	AAHYX00 70.950-71.050	71.000 +0.250
M2 (Nov)	AAHY000 71.575-71.675	71.625 +0.125
M3 (Dec)	AAHYZ00 72.075-72.175	72.125 -0.125
Q1 (Q4 2023)	PMABS00 71.533-71.633	71.583 +0.083
Q2 (Q1 2024)	PMABT00 72.825-72.925	72.875 +0.355
Saudi CP (\$/mt) (PPA page 2652)		
M1 (Oct)	AAHHG00 569.98-570.02	570.000 +1.000
M2 (Nov)	AAHHH00 579.98-580.02	580.000 0.000
M3 (Dec)	AAHHI00 589.98-590.02	590.000 +2.000
Q1 (Q4 2023)	AAHHJ00 579.98-580.02	580.000 +1.000

Butane swaps

Code	Mid	Change
US Gulf Coast (¢/gal) (PGA page 780)		
M1 (Oct)	ABTNM01	86.000 +0.250
M2 (Nov)	ABTNM02	87.675 +0.175
M3 (Dec)	ABTNM03	88.300 +0.175

Canadian Condensate (\$/mt)

Code	Mid	Change
(PGA page 230)		
Condensate	AALSF00	87.43 -0.14
Condensate vs WTI CMA	AALSJ00	-0.25 0.00

The discount of October FEI propane to MOPJ naphtha widened by \$1.5/mt from the previous session to \$8/mt on Sept. 25.

Platts is part of S&P Global Commodity Insights.

Platts Middle Eastern LPG Daily Commentary

- M1 Oct propane CP swap \$20/mt above Sep term CP

- FOB Middle East premium to Saudi Aramco CPs at \$42/mt

Platts assessed the Month 1 October propane contract price swap at \$570/mt on Sept. 25, up \$1/mt from the previous session and \$20/mt above the September term CP.

This was based on an October CP propane swap bid and offer at \$569/mt and \$570/mt.

If the trend continues, next term contract prices for October could rise for the third consecutive month, underscoring strong demand ahead of North Asian winter.

The October-November CP swap contango narrowed \$1/mt from the previous session to \$10/mt on Sept. 25, while the November-December CP swap contango widened \$2/mt from the previous session to \$10/mt.

In the physical market Sept. 25, UAE trader AGT bid for a 45,000 mt evenly split LPG cargo for Oct. 22-31 loading at \$610/mt for the propane portion and \$625/mt for butane. The bid remained standing at the close.

With this bid, Platts assessed the FOB Middle East premium to Saudi Aramco CPs at \$42/mt on Sept. 25, up \$4/mt from the previous session.

Platts is part of S&P Global Commodity Insights.

US LPG (PGA page 780)

	Code		Mid	Change		Code		Mid	Change
Enterprise Mt Belvieu (¢/gal)									
Ethane/propane mix M1	PMUDA05	23.575-23.675	23.625	-0.125					
Ethane purity M1	PMUDB05	27.825-27.925	27.875	-0.125					
Ethane purity M2	AAWUC00	27.700-27.800	27.750	-0.250					
Propane M1	PMAAY00	70.450-70.550	70.500	-0.750	Propane M1	PMABQ00	70.700-70.800	70.750	0.000
Propane M2	AAWUD00	71.325-71.425	71.375	-0.750	Propane M2	AAWUE00	71.200-71.300	71.250	0.000
Normal butane M1	PMAAI00	85.950-86.050	86.000	+0.750	Normal butane	PMABR00	72.950-73.050	73.000	+0.750
Normal butane M2	AAWUF00	86.325-86.425	86.375	+1.000					
Isobutane	PMAAB00	96.950-97.050	97.000	-1.000					
Natural gasoline M1	PMABY05	167.825-167.925	167.875	-1.625	Natural gasoline	AAIVF00	167.700-167.800	167.750	-2.250
Natural gasoline M2	AAWUG00	168.575-168.675	168.625	-1.500					
(\$/mt)									
Propane	AAXDD00	367.295-367.315	367.305	-3.910					
Normal butane	AAXDC00	389.570-389.590	389.580	+3.395					
Targa Mt Belvieu (¢/gal)									
Natural gasoline	PMABW05	167.700-167.800	167.750	-2.250					
Conway, Kansas (¢/gal)									
Ethane/propane mix	PMAA000	20.700-20.800	20.750	+0.250					
Propane	PMAAT00	66.950-67.050	67.000	-1.000					
Normal butane	PMAAD00	85.700-85.800	85.750	-0.250					
Isobutane	PMAAA00	106.950-107.050	107.000	-5.000					
Natural gasoline	PMAAQ00	184.950-185.050	185.000	-6.000					
Hattiesburg pipeline (¢/gal)									
					Propane	AALBC00	71.200-71.300	71.250	-1.750
Note: Spot prices exclude terminalling.									
Waterborne FOB USGC (\$/mt)					Waterborne FOB USGC (¢/gal)				
Propane	AAXIM00	434.140-434.160	434.150	+1.300	Propane	AAXIN00	83.320-83.340	83.330	+0.250
Propane vs. Mt Belvieu	AAXIO00	62.510-62.530	62.520	0.000	vs. Mt Belvieu	AAXIP00	11.950-12.050	12.000	0.000
Butane	ABTNB00		438.910	+1.720	Butane	ABTNA00		96.890	+0.380
Butane vs. Mt Belvieu	ABTND00		45.300	0.000	vs. Mt Belvieu	ABTNC00		10.000	0.000
LPG 22:22	ALPUB00		436.200	+1.530	LPG 22:22	ALPUA00		90.110	+0.320
LPG 22:22 vs. Mt Belvieu	ALPUD00		53.570	0.000	vs. Mt Belvieu	ALPUC00		11.000	0.000
VLGC Freight Rates (\$/mt)					VLGC Freight Rates (¢/gal)				
Houston to NWE	AAXIQ00	147.000			Houston to NWE	AAXIR00	28.215		
Houston to Japan	AAXIS00	251.000			Houston to Japan	AAXIT00	48.180		
Houston to Morocco	LPHMA00	138.500							

Platts Western Mediterranean LPG Daily Commentary

- West Mediterranean coaster prices slip
- Some 4 mil mt butane exported from Africa

The West Mediterranean butane coaster market softened Sept. 25 amid muted activity.

“As Algeria improves its operations, annual exports from Africa are forecast to increase and longer term, Nigeria and Libya will also contribute to the growth,”

analysts at S&P Global Commodity Insights said.

“Historically, Europe was Africa’s primary market, but going forward Africa will face growing consumption from the United States for the Northwest Europe market.”

Increased competition will force African LPG producers to ship their growing propane surplus to Asia, primarily to China and to a few other Asian countries, the analysts said.

Meanwhile on the butane side, the analysts pointed

to around 4 million mt of butane being exported from Africa, primarily to other African countries. However, these exports have declined in recent years. Morocco and Egypt were still seen as the major markets in the region.

While the strong production from the US has intensified the competition between Africa and US in the propane market, Africa will continue to serve the European markets in the Mediterranean for butane owing to its proximity.

In the FOB Med butane coaster market, no trades, offers or bids were heard. In the absence of competitive indications, the market was assessed on trader sentiment.

The West Mediterranean FOB butane market was assessed at \$639/mt, down \$9/mt on the day and unchanged as a percentage to naphtha at 91%. This kept West Mediterranean butane coasters at a \$7/mt discount to the FOB seagoing Northwest European market.

Coaster freight from Lavera to Mohammaia was assessed unchanged at \$65/mt, pending fresh market feedback.

The West Mediterranean FOB propane market was

assessed at \$646.25/mt, down \$7.75/mt on the day.

In Morocco, the CIF very large cargo freight forward was calculated at \$570.50/mt for delivery 45-60 days forward, down \$2.25/mt on the day.

Platts European Propane Daily Commentary

- Weak downstream demand
- Propane coaster activity supports prices

The Northwest European propane large cargo market slipped Sept. 25, while the coaster and rail car markets strengthened amid healthy trade activity.

“Europe is looking really weak,” a market source said. “[Europe] just does not have the demand going just now. It is arguable that propane is the better feedstock for petrochemicals, but they are not running at full cracker rates.”

Poor petrochemical demand has weighed heavily on the propane market, with analysts at S&P Global Commodity Insights saying a rebound in the global petrochemical industry is dependent on the economic recovery of China.

“A meaningful economic recovery may only occur sometime in 2024, more than a year after our original

Brazil prices

		\$/mt	Change
Import Parity Prices* (PGA page 166)			
LPG Suape	BLSUC00	607.590	+0.700
LPG Santos	BLSAC00	624.110	+0.930
R\$/kg			
LPG Suape	BLSUD00	3.020	+0.030
LPG Santos	BLSAD00	3.100	+0.030
		\$/mt	Change
CFR Cargo (PGA page 164)			
Propane Suape	BLSUA00	564.370	+2.830
Propane Santos	BLSAA00	605.240	+3.410
R\$/kg			
Propane Suape	BLSUB00	2.800	+0.030
Propane Santos	BLSAB00	3.010	+0.050

*LPG refers to a mix of 70% propane and 30% butane.

EIA Propane stocks (PGL page 777)

million barrels	PADD	16-Sep-22	01-Sep-23	08-Sep-23	15-Sep-23	
East Coast	EIANR00	1	8.00	8.62	8.42	9.05
Midwest	EIANV00	2	23.55	25.64	26.67	26.96
Gulf Coast	EIANW00	3	44.85	56.19	58.42	58.97
Total	1-3	76.40	90.44	93.51	94.97	
US Total	EIABM00		81.19	95.98	99.11	100.70

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forecast,” they said.

“The 2023 average cracker operating rate in mainland China has decreased to 72% from 77% in 2022, but feedstock demand and overall cracker capacity have increased from the previous year.”

In the propane CIF large cargo market, no bids, offers or trades were heard. In the absence of competitive indications, the market was assessed on trader sentiment.

In outright terms, that represented \$556.25/mt, down \$7.75/mt on the day to be at a \$14.75/mt discount to the propane CIF ARA October swap. Versus CIF NWE naphtha, it was assessed at a \$144.50/mt discount.

In the propane coaster market, one trade was heard. Gunvor sold 2,400mt to Equinor at \$608/mt to be loaded 2-4 October, with the trade being deemed competitive.

In outright terms, the propane coaster market was assessed at \$608/mt and at a \$51.75/mt premium to the large cargo, compared with \$605/mt and at a \$41/mt premium to the large cargo September 22.

The FCA ARA was up \$7.75/mt on the day at \$68.75/mt versus the CIF large propane market while FOB ARA barges were down Sept. 25 at \$27.75/mt.

Platts European Butane Daily Commentary

- Weak US exports
- Subdued petchem demand

Butane large cargo prices fell in Northwest Europe Sept. 25 in line with market activity seen on the day.

“We are seeing blending demand kicking in for small volumes for the barges and coasters pushing them into the 90s,” a market player said. “Also, we are coming into winter-spec gasoline so more butane is needed, and refinery runs are low just now.”

Meanwhile, the near-term butane demand outlook in the US “could be described as going from bad to worse in September,” analysts at S&P Global

European LPG Weekly Averages, September 22, 2023 (\$/mt) (PGL page 1776)

Northwest Europe		Code	Mid	Code	Mid		
Propane FOB NWE Seagoing	AABEU00	611.150–611.650	611.400	Butane FOB NWE Seagoing	AABE000	653.950–654.450	654.200
Propane FOB ARA	AABEV00	609.750–610.250	610.000	Butane FOB ARA	AABEP00	675.350–675.850	675.600
Propane FCA ARA*	AABEW00	631.150–631.650	631.400	Butane FCA ARA*	AABEQ00	679.350–679.850	679.600
Bio-Propane FCA NWE	ABPRA04		2573.900	Butane CIF NWE Seagoing	AABER00	689.750–690.250	690.000
Bio-Propane FCA NWE Premium	ABPRB04		1991.400				
Propane CIF NWE Large Cargo	AABEY00	574.050–574.550	574.300	Butane CIF NWE Large Cargo	AABES00	608.150–608.650	608.400
Western Mediterranean		Code	Mid	Code	Mid		
Propane FOB Ex-Refinery/Storage	AABEZ00	664.050–664.550	664.300	Butane FOB West Med Coaster	AABET00	639.550–640.050	639.800
Propane FCA Ex-Refinery/Storage*	AABFA00	674.050–674.550	674.300	Butane CIF Morocco	ABTMA04		580.500
Propane CIF 7000+ mt	AABFB00	591.050–591.550	591.300				

*FCA ARA refers to sales onto railcars and trucks in the Amsterdam-Rotterdam-Antwerp region

LPG Monthly Averages, August 2023 (\$/mt) (PGL page 1777)

Northwest Europe		Code	Mid	Code	Mid		
Propane FOB NWE Seagoing	PMUEA03	547.693–548.193	547.943	Butane FOB NWE Seagoing	PMUDU03	556.682–557.182	556.932
Propane FOB ARA	PMUEB03	501.739–502.239	501.989	Butane FOB ARA	PMUDV03	501.737–502.237	501.986
Propane FCA ARA*	PMUEC03	547.557–548.057	547.807	Butane FCA ARA*	PMUDW03	505.737–506.237	505.986
Bio-Propane FCA NWE	ABPRA03		2715.511	Butane CIF NWE Seagoing	PMUDX03	515.614–516.114	515.864
Bio-Propane FCA NWE Premium	ABPRB03		2197.159				
Propane CIF NWE Large Cargo	PMUEE03	518.102–518.602	518.352	Butane CIF NWE Large Cargo	PMUDY03	558.295–558.795	558.545
Western Mediterranean		Code	Mid	Code	Mid		
Propane FOB Ex-Refinery/Storage	PMUEF03	608.102–608.602	608.352	Butane FOB West Med Coaster	PMUDZ03	562.852–563.352	563.102
Propane FCA Ex-Refinery/Storage*	PMUEG03	618.102–618.602	618.352	Butane CIF Morocco	ABTMA03		529.057
Propane CIF 7000+ mt	PMUEH03	535.102–535.602	535.352				

*FCA ARA refers to sales onto railcars and trucks in the Amsterdam-Rotterdam-Antwerp region

Commodity Insights said.

Weak export flows and high US inventories are weighing on the US market, with exports potentially reaching a new low for 2023, they said.

A rebound in global petrochemical demand could change export dynamics. However, that will be dependent on economic recovery in China which remains unlikely until 2024, the analysts said.

In the CIF butane cargo market, one offer was heard. Stasco offered 12,000 mt for Oct. 13-17 delivery, priced at 81% of the October naphtha swap. The trade was deemed competitive.

The CIF large cargo market was assessed in outright terms at \$563.25/mt, down \$42.25/mt from Sept. 22 and down 5% as a percentage of naphtha to 80%.

In the butane coaster market, no bids, offers or trades were heard. In the absence of competitive indications, the market was assessed on trader sentiment.

The FOB seagoing butane coaster market was assessed at \$646/mt and unchanged as percentage to naphtha at 92%. The CIF market was also unchanged as a percentage to naphtha at 97% and assessed in outright terms at \$681/mt. That put the FOB coaster at a \$35/mt discount to the CIF coaster.

Platts US LPG Spot Daily Commentary

- Propane and pentane prices continue week-and-a-half descent
- US propane demand expected to remain stable
US Gulf Coast propane and pentane prices continued their week-and-a-half long descent Sept. 25 as propane demand is expected to remain stable for the rest of the month.

Platts assessed propane at the Enterprise terminal in Mont Belvieu, Texas at 70.5 cents/gal, down 75 points compared with last close. Pentane, meanwhile, experienced more substantial declines in the Gulf Coast, falling 1.625 cents/gal to 167.875 cents/gal.

Propane and pentane prices have trended downwards since Sept. 14, when the two NGLs reached 78.375 cents/gal and 177.25 cents/gal, respectively.

Propane prices continued to fall amid forecasts from S&P Global Commodity Insights analysts that propane and propylene inventories are expected to increase 1.285 million barrels for the week ending Sept. 22. The US Energy Information Administration will release the actual inventory numbers for the week of Sept. 22 on Sept. 27.

Total propane demand is projected to stay firm as US exports are to catch up after a drop in mid-September, while the petrochemical demand from flexible-feedstock crackers and propane dehydrogenation plants are slowly returning to 100% operating capacity, according to S&P Global analysts.

Platts is a part of S&P Global Commodity Insights.

Subscriber Notes

Platts launches Northwest European bionaphtha assessments Sept. 1

Platts, part of S&P Global Commodity Insights, has launched bionaphtha assessments in Northwest Europe, effective Sept. 1, 2023.

Platts has observed growing supply and consumption

of bionaphtha in Northwest Europe on the back of a rapid expansion in European biorefining capacity.

The growth in demand for bionaphtha is driven in part by the transition to lower carbon fuels where bionaphtha is used as a gasoline blending component, as well as increasing usage from chemical crackers that in turn supply bio-based feedstocks for consumer plastics production.

The launch of Platts Northwest European bionaphtha assessments follows a decision published Aug. 2 which can be found here:

<https://www.spglobal.com/commodityinsights/en/our-methodology/subscriber-notes/080223-platts-to-launch-northwest-european-bionaphtha-assessments-sept-1>

The assessments reflect parcels of 1,000-2,000 mt of bionaphtha, loading five to 15 days forward on an FOB ARA (Amsterdam-Rotterdam-Antwerp) basis. Other locations within Northwest Europe may be considered for the assessment but may be normalized to reflect loadings basis ARA.

Platts will publish the bionaphtha assessment on an outright basis and also as a differential to the benchmark Platts CIF NWE naphtha cargo assessment (PAAAL00), reflecting typical trading practices. The assessments will be published in both \$/mt and Eur/mt, time-stamped at 1630 London time.

The bionaphtha assessments exclude material produced from palm-based feedstock and mirror applicable specifications set out in the Platts CIF NWE naphtha methodology, reflecting open specification material with a minimum 65% paraffin content and a typical density of 0.69 kg/l to 0.735 kg/l.

Certification Requirements:

The new assessments reflect material accompanied with International Sustainability & Carbon Certification Plus (ISCC+) issued by a European Commission-approved auditing body. The ISCC+ is a voluntary sustainability certification for circular and bio-based products, renewables, food, feed & biofuels, for non-regulated

markets outside of the European Union Renewable Energy Directive (RED II) framework. Market feedback received suggest requests for ISCC+ certification for bionaphtha used as chemical feedstock to be prevailing market practice and typical. Where applicable, material accompanied with ISCC EU compliant certification and sustainability documentation showing a minimum greenhouse gas saving of 50% under RED II framework may be considered for the assessments, subject to normalization.

Platts understands while it is typical for buyers to request for additional Kosher or Halal certifications for bionaphtha used as chemical feedstock, especially for consumer plastics or food packaging production, material adhering to these additional certification may command a premium and may be normalized for the purpose of these assessments.

The new bionaphtha assessments are published on Platts LPGaswire, Oilgram Price Report, APAGscan, EUMarketscan and USMarketWire, Platts alerts fixed pages PGA0034, PGA1110, PGA1111, PGA1310, PGA1311, PGA1775 and Platts Dimensions Pro.

Description	Daily Assessment	Monthly Assessment
Platts Bio-Naphtha FOB NWE USD/mt	PAAAU00	PAAAU03
Platts Bio-Naphtha FOB NWE Eur/mt	PAABU00	PAABU03
Platts Bio-Naphtha FOB NWE Premium USD/mt	PAADU00	PAADU03
Platts Bio-Naphtha FOB NWE Premium Eur/mt	PAAEU00	PAAEU03

Please send any comments or feedback to europa_products@spglobal.com, MRTS_biofuelsandfeedstocks@spglobal.com, petchems@spglobal.com and pricegroup@spglobal.com.

For written comments, please provide a clear indication if comments are not intended for publication by Platts for public viewing. Platts will consider all comments received and will make comments not marked as confidential available upon request.

East of Suez LPG tenders/deal

Tender/ Deal	Company	Buy/ Sell	CFR/FOB	Laycan	Cargo	Closing date	Validity	Results
Tender	Indian Oil Corp.	Buy	FOB Middle East	Jan-Mar 2024	Evenly-split cargo of 44,000 mt; one cargo/month for the three months	8/21/2023	8/21/2023	Discount of \$10/mt to the Saudi Aramco Contract Price for propane and butane, FOB
Tender	Sinobenny LPG	Buy	DES Shenzhen	Oct 5-25	11,500 mt of propane and 11,500 mt of butane	9/5/2023	9/6/2023	
Tender	Sinopec Chemical Commercial Holding (Hong Kong) Company Limited	Buy	DAP Yangpu, Hainan	Oct 8-15 or Sept 22-Oct 15 or Sep 22-Oct 15 delivery	45,000 mt propane or 23,000 mt propane or 11,000 mt propane	8/23/2023	8/23/2023	
Tender	Formosa Petrochemical Co., Taiwan	Buy/ Sell	DES	Sep. 20-30	44,000 mt evenly split	Aug.15	Aug.15	withdrawn
Tender	Hindustan Petroleum Corp. Ltd., India	Buy/ Sell	Port: Visakhapatnam or Haldia on India's east coast, with the first port of discharge at Visakhapatnam	Jan-Dec 2024	2.335 million mt propane/butane cargoes			
Tender	Ningbo Huatai Shengfu Wealthy Polymer Material, China	buy	Delivery ex-ship Ningbo, northeast Zhejiang	H2 August delivery	23,000 mt propane	Aug.9	Aug.10	
Tender	Wanhua Petrochemical, China	buy	CFR Yantai	H1 August delivery	46,000 mt of propane			Discount of high single-digit to August Argus Far East Index, delivered basis, from Petrochina/Premium in the low single-digit to August Argus Far East Index, DES, from Sinochem
Tender	Tianjin Bohai Chemical, China	Buy	CFR Tianjin	H2 August delivery	Propane; 44,000 mt			Discount of around mid-single digit to August Argus Far East Index, CFR, from SwissChem Gas
Tender	KPC	Sell	Mina Al-Ahmadi	Aug 4-5 loading	22,000 propane, 22,000 mt butane	7/7/2023	7/7/2023	
Tender	Qatar QPSPP	Sell	FOB Ras Laffan or Mesaieed	Aug 6-9	33,000 mt propane, 11,000 mt butane; or 44,000 mt propane	7/6/2023	7/7/2023	
Tender	Hyosung Vina	Buy	CIF Vungtau	H2 July	22,000 mt of propane	6/28/2023	6/29/2023	Premium of \$50s/mt to Saudi Aramco Contract Price, CIF basis
Tender	KPC	sell	Mina Al-Ahmadi	Jul 9-10	11,000 mt propane and 33,000 mt butane	6/15/2023	6/16/2023	Discount of \$50s/mt to July Saudi CPs
Tender	KPC	Sell	Mina Al-Ahmadi	July 2-3	11,000 mt propane and 33,000 mt butane	6/14/2023	6/14/2023	Discount of about \$50/mt to July Saudi Aramco CP
Tender	Wanhua Petrochemical	Sell	CFR Yantai	July 16-31	46,000 mt propane	6/14/2023	6/14/2023	Premium smaller than \$1/mt to the Far East Index
Tender	Qatar Petroleum Sell		FOB Ras Laffan or Mesaieed	Jul 17-21	22,500 mt propane; 22,500 mt butane/and ;or 33,750 mt propane/11,250 mt butane	6/14/2023	6/15/2023	OQ (Oman) price unknown
Tender	Qatar Petroleum	Sell	FOB Ras Laffan or Mesaieed	Jul 2-5	1) Mixed cargo comprising 33,750 mt of propane and 11,250 mt of butane; 2) 45,000 mt evenly split propane-butane cargo	6/5/2023	6/6/2023	Discount in the high \$30s/mt to the July Saudi Aramco contract prices 1) Mixed cargo sold to PTT; 2) Evenly split cargo sold to Shell
Tender	Saigon Petro	Buy	1.Ho Chi Minh City 2.Tra Noc Port	Jul-Dec 2023	Pressurized LPG comprising 55%-60% propane, 40%-45% butane, 500 mt/month	5/30/2023	6/13/2023	

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