

☆RIM LNG INTELLIGENCE DAILY

★No.2222 Jul 30 2019

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--TOKYO, 17:00 JST Jul 30 2019<Assessment Closing Time>

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○Start of assessment of TFDE, MEGI and X-DF tankers

Rim Intelligence started assessments of daily rates for “TFDE tankers”, “MEGI tankers” and “X-DF tankers” on a short-term basis on May 7. For further inquiries, please contact Rim LNG team.

○Additional content and changes in “LNG Benchmark” table

Rim Intelligence will be adding “US Export Price Avg (\$/mmBtu)” content in the “LNG Benchmark” table and changing “U.S landed Price Avg (\$/mmBtu)” content to “US Import Price Avg (\$/mmBtu)” from Aug 1. For further inquiries, please contact Rim LNG team.

© RECX-22 index

RECX-22 index for Tuesday was 93.91, down 0.24 points from the previous day.

-----Introduction of Rim reports-----

Please access the URL below for a lineup of Rim reports. You can view sample reports as well as detailed explanations on the contents:

<https://eng.rim-intelligence.co.jp/first/report>

Lineup:

Bunker Oil	Crude/Condensate	Products	
LPG	Petrochemicals	Polyolefins	
LNG	South Asia Gas (Weekly)	Daily Data	Rim Data File

For inquiries on the above, please contact:

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◎Spot LNG Price Assessment (\$/mmBtu)						
ODES Japan (DJ)						
	Sep	Oct	Nov	Dec	Jan	Feb
	4.20	4.70	5.15	5.35	5.55	5.75
Daily Changes	-0.15	-0.05	-0.05	-0.05	-0.05	-0.05
	Mar	Apr	May	Jun	Jul	Aug
	5.55	5.45	5.35	5.25	5.35	5.45
Daily Changes	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05

○Northeast Asia (DES)						
	Sep 1H	Sep 2H	Oct 1H	RIM Index		
--NEA	4.05-4.35	4.05-4.35	4.55-4.85	4.37		
Daily Changes	-0.15	-0.15	-0.05	-0.11		
RIM Index Monthly Cumulative Avg		4.50				
*RIM Index is a daily average price of the three delivery periods of NEA.						
*RIM Index Monthly Cumulative Avg is a monthly cumulative average price of RIM Index.						
	Nov	Dec	Jan	Feb	Mar	Apr
--NEA Forward	5.00-5.30	5.20-5.50	5.40-5.70	5.60-5.90	5.40-5.70	5.30-5.60
Daily Changes	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
	Autumn	Winter				
--NEA Seasonal Index	5.07	5.62				
Daily Changes	-0.05	-0.05				
*NEA: Northeast Asia						

○Others			
	Aug 2H	Sep 1H	Sep 2H
--Middle East (FOB)	2.85 - 3.15	2.95 - 3.25	2.95 - 3.25
Daily Changes	-0.15	-0.15	-0.15
--Middle East (DES)	4.00 - 4.30	4.10 - 4.40	4.10 - 4.40
Daily Changes	-0.15	-0.15	-0.15
--South Asia (DES)	4.10 - 4.40	4.20 - 4.50	4.20 - 4.50
Daily Changes	-0.15	-0.15	-0.15
	Aug 1H	Aug 2H	Sep 1H
--Atlantic (FOB)	2.95 - 3.25	2.95 - 3.25	3.05 - 3.35
Daily Changes	-0.15	-0.15	-0.15
--Europe (DES)	3.65 - 3.95	3.65 - 3.95	3.75 - 4.05
Premiums to NBP	0.29 - 0.59	0.29 - 0.59	0.29 - 0.59
Daily Changes	-0.15	-0.15	-0.15
--South America (DES)	3.65 - 3.95	3.65 - 3.95	3.75 - 4.05
Daily Changes	-0.15	-0.15	-0.15

◎Freight		
	Freight Rates (\$/mmBtu)	380cst Bunker Prices (Jul 29) (\$/mt)
--Middle East/Northeast Asia	- 0.71 - 0.76 -	--Tokyo 456.50
--Atlantic/Northeast Asia	- 1.28 - 1.33 -	--Singapore 451.50
--Middle East/Europe	0.59 - 0.64	--Rotterdam 366.50
	Daily Rates (\$)	
--Conventional Tankers	34,000 - 39,000	
--DFDE Tankers	54,000 - 59,000	
--TFDE Tankers	54,000 - 59,000	
--MEGI Tankers	62,500 - 67,500	
--X-DF Tankers	62,500 - 67,500	
Daily rates include all costs.		

*** Please visit <https://eng.rim-intelligence.co.jp/rpt/assessment/select/type/lng-en> to refer to the assessment methodology for the above price assessments.

◎Japan Crude Cocktail (JCC)								
	Expected					Result		
	Nov	Oct	Sep	Aug	Jul	Jun	May	Apr
JCC (bbl)	64.91	65.83	66.68	66.98	66.55	73.09	73.02	68.86
Daily Changes	+0.93	+0.91	+0.76	+0.09	0.00	0.00	0.00	-
JCC (mmBtu)	11.00	11.16	11.30	11.35	11.28	12.39	12.38	11.67

◎Natural Gas Futures Prices (\$/mmBtu)									
ONYMEX Henry Hub (Jul 29)					OICE NBP (Jul 29)				
	Aug	Sep	Oct	Nov		Aug	Sep	Oct	Nov
Settle	2.141	2.116	2.139	2.233	Settle	3.356	3.460	4.236	5.716
Change	-0.028	-0.034	-0.038	-0.034	Change	-0.052	-0.088	-0.104	-0.134
High	2.182	2.164	2.190	2.282	High	3.465	3.543	4.323	5.789
Low	2.120	2.101	2.128	2.223	Low	3.301	3.454	4.210	5.716
Estimated Volume:	408,700				Estimated Volume:	22,300			

◎Petroleum Futures/Physical											
ONYMEX Petroleum Futures (Jul 29)					OPetroleum Physical (Jul 29)						
-WTI Futures (\$/mmBtu)					9.805	-Dubai Crude (\$/mmBtu)					10.753
					56.87						62.37
-Heating Oil (\$/mmBtu)					13.776	-Minas Crude (\$/mmBtu)					10.833
					191.06						63.70
						-LSWR Indonesia (\$/mmBtu)					11.363
											70.45
						-HSFO Singapore (\$/mmBtu)					10.828
											433.00
						-LPG CFR Japan (\$/mmBtu)					8.624
						(Propane) (\$/mt)					410.50

◎Coal Prices and Electricity Prices											
OCoal Prices (Jul 29)					OElectricity Prices (Yen/kWh) (Jul 30)						
-FOB New Castle-Global Coal (\$/mmBtu)					3.129	-JEPX 24h					9.72
					71.60	-JEPX Daytime					11.16
-ICE Futures FOB Richards Bay (\$/mmBtu)					2.828	-JEPX Peaktime					12.10
					64.70						

◎LNG Benchmark						
	Jun-19	May-19	Apr-19	Mar-19	Feb-19	Jan-19
-JLC Japan LNG Cocktail (\$/mmBtu)	9.332	9.438	9.680	10.599	11.152	11.224
	483.41	488.90	501.42	549.02	577.67	581.42
-Asia CIF Cocktail (\$/mmBtu)	-	-	-	-	-	-
	-	-	-	-	-	-
-U.S landed Price Avg (\$/mmBtu)	-	-	6.970	7.335	8.543	9.416

◎Transactions

○ Recent Spot Transactions

Reported date	Dealt Date	Origin	Seller	Buyer	Price	FOB/DES	Volume (cargoes)	Timing	Destination
Jul 30	Jul 26	Ichthys	Ichthys LNG	BP	high \$3's	FOB	1	Sep 1-4	T.B.R.
Jul 30	Jul 26	Ichthys	Ichthys LNG	T.B.R.	above \$4.00	DES	1	Aug 14-16 (loading)	T.B.R.
Jul 30	Jul 22	Nigeria	NLNG	Shell	T.B.R.	FOB	1 - 3	Jul 31-Aug 1 x1 Jul 31-Aug 28 x2	T.B.R.
Jul 30	Jul 23	Angola	Angola LNG	Gunvor or trader	T.B.R.	DES	1	Aug 16-Sep 5	T.B.R.
Jul 30	Jul 11	Angola	Angola LNG	Gunvor or trader	T.B.R.	DES	1	Aug 21-27	T.B.R.
Jul 30	Jul	Montoir (re-export)	European trader	DUSUP & ENOC	T.B.R.	DES	1	Jul 26	Dubai
Jul 29	early Jul	Yamal	Novatek	T.B.R.	T.B.R.	DES	1	T.B.R.	China
Jul 29	late Jul	Wheatstone	DGI	Shell	T.B.R.	FOB/DES	1	H1 Aug	T.B.R.
Jul 29	late Jul	NWS	Chevron	BP	\$4.12	FOB	1	T.B.R.	T.B.R.
Jul 29	mid-Jul	T.B.R.	trader	Indian end-user	\$4.00	DES	1	H1 Aug	India
Jul 29	Jun	Das Island	BP	Torrent Power	T.B.R.	DES	1	Jul 15	India
Jul 29	Jun	Qatar	Glencore	GSPC	T.B.R.	DES	1	Jul 14	India
Jul 29	May	Sabine Pass	SITME	IOC	T.B.R.	DES	1	Jul 9	India
Jul 26	Jul 25	T.B.R.	long-term supplier	S-OIL+POSCO	\$5.10-5.15	DES	1	Oct 19-25	South Korea
Jul 25	mid Jul	Bontang	Pertamina + ENI	trader	T.B.R.	FOB	1	H1 Aug	T.B.R.

○ Recent Term Transactions

Reported date	Origin	Seller	Buyer	Price	FOB/DES	Volume	Start	Duration
Jun 28	Woodfibre	Woodfibre LNG Export	BP	T.B.R.	FOB	0.75mil mt/yr	2023	15 yrs
Jun 24	T.B.R.	T.B.R.	Uniper	T.B.R.	FOB	1 cargo/month	Sep 2019	more than 1 year
Jun 20	Tokyo Gas portfolio	Tokyo Gas	Sumitomo Joint Electric Power	T.B.R.	DES	around 0.17 mil mt/yr	FY 2021	5 yrs (HOA)
Jun 14	Plaquemines	Venture Global LNG	PGNiG	T.B.R.	FOB	1.5 mil mt/yr	2023	20 yrs
Jun 14	Plaquemines	Venture Global LNG	PGNiG	T.B.R.	FOB	1.0 mil mt/yr	2023	20 yrs
Jun 14	Calcasieu Pass	Venture Global LNG	PGNiG	T.B.R.	FOB	1.0 mil mt/yr	2022	20 yrs
Jun 11	Tangguh	Tangguh LNG	end-user	Brent x around 12%	FOB	0.50 mil mt/yr	2022	3 yrs
Jun 7	T.B.R.	T.B.R.	EGAT	T.B.R.	DES	1.5 mil mt/yr	2020	8 yrs
Jun 6	Tangguh T3	BP	Singaporean player	JCC x 12.33%	FOB	4 cargoes (2020) 16 cargoes/yr (2021-2025) (total 84 cargoes)	2020	T.B.R.
Jun 3	Freeport T3	Tsohiba America LNG	Total Gas & Power Asia	T.B.R.	T.B.R.	2.2 mtpa	T.B.R.	T.B.R.

○ Recent Tenders

Reported Date	Issuer	Close	Buy/Sell	FOB/DES	Timing	Price(\$)	Origin	Winner
Jul 29	IOC	Jul 30	Buy	DES	Sep 25 (Dahej), Sep 1-5 (Ennore)	T.B.R.	T.B.R.	T.B.R.
Jul 26	Pertamina	Jul 19	Sell	FOB	Aug	T.B.R.	Bontang	T.B.R.
Jul 25	S-OIL+POSCO	Jul 25	Buy	DES	Oct 19-25	\$5.10-5.15	T.B.R.	long-term supplier
Jul 24	Pertamina + ENI	Jul 29	Sell	FOB	H2 Aug, Sep, Oct	T.B.R.	Bontang	T.B.R.
Jul 24	Ichthys LNG	Jul 26	Sell	FOB/DES	Aug 14-16, Sep 1-4	Sep 1-4: high \$3's Aug 14-16: above \$4.00	Ichthys	Sep 1-4: BP Aug 14-16: T.B.R.
Jul 24	GSPC	Jul 19	Buy	DES	Aug 14-15	\$4.05-4.10	T.B.R.	T.B.R.
Jul 24	Achema	mid Jul	Buy	DES	Oct-Dec, total 4 crgs	T.B.R.	T.B.R.	Equinor

Jul 23	Essar	Jul 20 (extended to Jul 22)	Buy	DES	Dec 2019 to Dec 2020 x13	T.B.R.	T.B.R.	T.B.R.
Jul 22	Pertamina + ENI	Jul 12	Sell	FOB	H1 Aug	T.B.R.	Bontang	trader
Jul 22	Gazprom	Jul 19	Sell	FOB	Jan 1-Dec 31 2020 x6	NEA market price discount	Cameroon	Trafigura
Jul 22	NLNG	Jul 22	Sell	FOB	Jul 31-Aug 1 x1 Jul 31-Aug 28 x2	T.B.R.	Bonny Island	Shell
Jul 22	Angola LNG	Jul 23	Sell	DES	Aug 16-Sep 5	T.B.R.	Angola	Gunvor or trader
Jul 17	Tanggung LNG	early Jul	Sell	DES	Oct, Nov, Dec 2 crgs/each month	NEA market link	Tanggung	T.B.R.
Jul 16	GS Energy and POSCO	Jul 12	Buy	DES	mid Sep or end Sep	T.B.R.	T.B.R.	not awarded
Jul 16	EGAS	Jul 16	Sell	FOB	Aug 8-10, 17-19, 21-22	T.B.R.	Idku	trader x 1 or 2, 1 or 2 not awarded
Jul 12	Nippon Steel	Jul 12	Buy	DES	Sep 17-27	around \$4.60	T.B.R.	T.B.R.
Jul 12	S-OIL	1st week of Jul	Buy	DES	H2 Aug to mid-Sep	\$4.35-4.40	T.B.R.	Saudi Aramco
Jul 11	CFE	Jul 12	Buy	DES	Jul 20-21, Jul 29-31	low-mid \$4's	T.B.R.	Shell
Jul 10	Brunei LNG	Jul 8	Sell	DES	Aug 25-29	\$4.40-4.50	T.B.R.	Japanese trader
Jul 9	GSPC	Jul 9	Buy	DES	H2 Aug	\$4.05	Das Island	T.B.R.
Jul 9	Angola LNG	Jul 11	Sell	DES	end Jul to Aug	T.B.R.	Angola	Gunvor or trader
Jul 5	IOC	Jul 8	Buy	DES	Sep 6	\$4.40-4.50	T.B.R.	T.B.R.
Jul 5	RIL	Jul 5	Buy	DES	Aug 21-27	T.B.R.	T.B.R.	T.B.R.
Jul 5	Novatek	Jul 9	Sell	DES	Europe: Aug 6-12 Asia: Aug 21-25	TTF premium (to Spain)	Yamal	T.B.R.
Jul 4	GSPC	Jul 5	Buy	DES	Aug 10-14	T.B.R.	T.B.R.	not awarded
Jul 3	ADNOC LNG	Jul 3	Sell	FOB/ DES	Aug 3-5	high \$3's (DES)	Das Island	Shell
Jul 3	GAIL	Jul 3	sell	FOB	Aug & Nov (Cove Point)	T.B.R.	Cove Point	Shell (Aug) not awarded (Nov)
Jul 3	GAIL	Jul 3	Buy	DES	late Dec (Dahej)	T.B.R.	T.B.R.	not awarded
Jul 2	Ichthys LNG	Jul 3	Sell	FOB/ DES	Jul 31-Aug 3 end Jul (loading)	high \$3's	Ichthys	Shell (end Jul) Vitol (Jul 31-Aug 3)
Jul 2	PNG LNG	Jul 3	Sell	DES	Aug 12-17, Sep 5-10	mid-\$4's (Aug) \$4.55 (Sep)	PNG LNG	Petrochina and another player
Jul 1	Angola LNG	Jul 4	Sell	DES	Aug 3-20	T.B.R.	Angola	T.B.R.
Jul 1	RIL	last week of Jun	Buy	DES	Oct	T.B.R.	T.B.R.	T.B.R.
Jun 25	Angola LNG	Jul 2	Sell	DES	Singapore: Aug 18-20 Indonesia: Aug 17-20 India or Middle East: Aug 16-22	T.B.R.	Angola	T.B.R.
Jun 25	Angola LNG	Jun 26	Sell	DES	Indonesia: Jul 24-27 India or Middle East: Jul 22-28	mid-\$4's	Angola	trader
Jun 25	GSPC	Jun 26	Buy	DES	mid-Oct	T.B.R.	T.B.R.	T.B.R.
Jun 18	KUFPEC	Jun 18	Sell	FOB	Jul 30-Aug 3	\$4.10-4.20	Wheatstone	Total
Jun 18	PNG LNG	Jun 19	Sell	FOB/ DES	Jul 10-11 loading	around \$4.50	PNG LNG	Shell
Jun 18	EGAS	Jun 25	Sell	FOB/ DES	Aug x4	low-mid \$4's	Idku	Gunvor and others
Jun 18	ADNOC LNG	Jun 19	Sell	DES	Jul 18-20	T.B.R.	Das Island	trader
Jun 18	Oman LNG	Jun 25	Sell	FOB	Aug 4,17,31	low-mid \$4's	Oman	trader
Jun 17	IOC	Jun 19	Buy	DES	Aug 22	\$4.20	T.B.R.	T.B.R.
Jun 14	Angola LNG	Jun 13	Sell	DES	Jun to Jul	T.B.R.	Angola	Gunvor
Jun 12	GS Energy	Jun 12	Buy	DES	late Jul to early Aug	\$4.40-4.50	T.B.R.	trader
Jun 10	RIL	Jun 7	Buy	DES	Jul, Sep, Oct x 1	T.B.R.	T.B.R.	T.B.R.
Jun 10	Guangdong Energy	Jun 13	Buy	DES	late Aug x1, Sep x1	\$below \$5.00 (late Aug) ard \$5.00 (Sep)	T.B.R.	T.B.R.
Jun 6	IEASA	Jun 11	Buy	DES	Aug x 6 (2.1 tBtu x 5, 2.7 tBtu x 1)	T.B.R.	T.B.R.	Gunvor

Jun 6	CFE	Jun 10	Buy	DES	Jun-Jul x 3 cargoes	\$4.40	T.B.R.	Shell
Jun 6	EGAT	H2 May	Buy	DES	2020-2027 (1.5mtpa)	T.B.R.	T.B.R.	T.B.R.
Jun 5	Angola LNG	Jun 3	Sell	DES	Jun 19-29 (Brazil)	T.B.R.	Angola	trader
Jun 4	Ichthys LNG	Jun 6	Sell	FOB/ DES	Jun 22-24, 24-29 (140,000-170,000cbm)	\$4.00 and \$4.05	Ichthys	BP
Jun 4	PLL	Jul 18	Buy	DES	240 cargoes for 10 yrs (2 cargoes/month)	T.B.R.	T.B.R.	T.B.R.
Jun 4	Angola LNG	Jun 5	Sell	DES	early Jun (loading)	T.B.R.	Angola	trader
May 24	Pertamina	May 23	Sell	FOB	Jun 15-18 x1, Jul x1	T.B.R.	Bontnag	Jun not awarded
May 22	Oman LNG	May 21	Sell	FOB	1st cargo: Jun 29, Jul 4, or Jul 6-11 2nd cargo: Aug 23-30	T.B.R.	Oman	T.B.R.
May 17	Angola LNG	May 21	Sell	DES	early Jun (Atlantic)	T.B.R.	Angola	T.B.R.
May 17	GNL	May 23	Buy	DES	Aug 18-19	T.B.R.	T.B.R.	T.B.R.
May 14	PLL	Jun 13	Buy	DES	Jul 30-31, Aug 23-24 Sep 3-4, 15-16, 20-21	T.B.R.	T.B.R.	T.B.R.
May 14	Pertamina	around May 15	Sell	FOB	DES : Jun x1 (mid-Jun for Japan), FOB : late Dec 2019, Jan 2020, Oct-Dec 2020 x2	T.B.R.	DES: Pluto FOB: Bontang	T.B.R.

○ Recent Shipping Transactions

Reported date	Vessel Name	charterer	counter party	Type	Price	Start	Duration
Jul 30	Golar Frost	Ichthys LNG	Cool Pool	MEGI	na	early Aug	short-term
Jul 30	Excalibur	YPF	Excelerate	S	na	Jul	until May 2020 (10 months)
Jul 19	Seri Bakti	Shell	na	S	na	Aug	one year
Jul 19	Hoegh Galleon	Cheniere	Hoegh	D	na	H2 2019	20 months
Jul 17	BW Iris	BP	BW Gas	MEGI	\$95k	Aug	14 months
Jul 16	Hoegh Galleon	Cheniere	Hoegh	D	na	Sep	more than 1 yr
Jul 10	Gaslog Warsaw	European trader	Gaslog	LSDF	na	Aug	na
Jul 8	Hoeguh Gallant	Gunvor	Hoegh	D	na	Jul onward	short term
Jul 8	Stena Clear Sky	Gunvor	Stena LNG	D	na	end Jun	short term
Jul 8	Flex Rainbow	Gunvor	Flex LNG	MEGI	na	Sep onward	a few months (extension)

Types of tankers are indicated as C= Conventional, D = DFDE, T = TFDE, X=X-DF

○ Projects/Receiving terminals Latest Information

Report Date	Project	Train No	Country	Start	Period	Remark
Jul 30	Cameron	T1	US	late Jul	na	maintenance started after commissioning.
Jul 30	APLNG	T1 or T2	Australia	Aug 6 and Sep 10	1 week each	planned partial maintenance.
Jul 26	Freeport	T1	US	Sep to Oct	na	first cargo would be exported during Sep to Oct. gas supply resumed on Jul 25.
Jul 25	Dharma	na	India	na	na	Total acquires 50% stakes of the terminal.
Jul 25	Cameron	T1	US	3rd weekend of Jul	na	feed gas supply dropped.
Jul 25	Bintulu	T7 & T8	Malaysia	early Jul	na	T7 & T8 still down but no delay or cancellation seen in supplies.
Jul 23	Sabine Pass	na	US	mid-Jul	na	feed gas supply unstable. no impact on LNG shipment.
Jul 23	Oman	na	Oman	na	na	debottlenecking is progressing.
Jul 19	Bahrain	na	Bahrain	H2 Jul	na	commissioning cargo will be arrived in H2 Jul.
Jul 19	Ichthys	na	Australia	early Jul	na	there was a trouble at gas field in early Jul but it was fixed.

*** The information found during the day is highlighted in red in both Spot and Term transactions.

©MARKET COMMENTARY**ODES Japan****Contracts drop as NE Asia market falls**

The September contract on the Japan OTC Exchange (JOE) on Tuesday dropped 15cts to \$4.20 and the October contract dropped 5cts to \$4.70 as prices in the DES Northeast Asia market decreased

from the previous day. On the other hand, in the JOE physical and swap markets, no bids and offers were posted and no deals were heard as of 17:00 Tokyo time.

ONE Asia**DES Northeast Asia softens on ample available cargoes**

DES Northeast Asia prices weakened by 15cts from the previous day to \$4.05-4.35 for first-half and second-half September delivery. Prices for first-half and second-half September delivery reportedly fell to around \$4.20. In Northeast Asia, temperatures rose. But many end-users planned to receive more long-term cargoes, and buying movements were limited. Meanwhile, there were ample uncommitted cargoes. Sell tenders were issued one after another for August and September loading from the Ichthys project in Australia and the Bontang project in Indonesia. In addition, APLNG had surplus cargoes from the Australia Pacific LNG project. But long-term buyers were not aggressive to buy extra cargoes, so that APLNG considered selling cargoes in the spot market. Prices for first-half October delivery fell by 5cts from the previous day to \$4.55-4.85. While demand was not seen, no sellers were in a hurry to sell at this moment, which prevented a sharp price fall.

On the other hand, in the DES Northeast Asia forward market, prices for November to April 2020 delivery fell by 5cts from the previous day. Prices dropped in line with a fall in prices for prompt delivery. Prices stood at a small contango towards winter due to seasonal factors, but many market players expected that supply/demand fundamentals were unlikely to tighten sharply for the time being. "Prices might not hit \$6.00 even in the peak demand winter season," a Northeast Asian end-user said.

Ichthys sell tender awarded

Australia's Ichthys LNG seemed to have awarded its sell tender closed on Jul 26. Of the two cargoes loading Aug 14-16 and Sep 1-4 respectively, one of them was apparently awarded at above \$4 on a DES basis while the other cargo was said to have been awarded in the high \$3's on an FOB basis. The FOB cargo was believed to have been awarded to Britain's BP. Some sources perceived that the August loading cargo was awarded on a DES basis while the September loading cargo was awarded on an FOB basis. The DES cargo would be delivered by end-August in case supplied to Northeast Asia.

Japanese end-users not buying despite rising temperatures

In Japan, the rainy season had ended except for the northern part of the Tohoku area. This week, temperatures throughout Japan rose sharply but power companies were cautious about buying. As August is usually a hot month, power companies are planning for higher power demand compared to June and July, and the intake of long-term cargoes usually increases. One power company mentioned that it was already taking more cargoes and had little room to conduct spot purchase even if temperatures increased. Spot demand was unlikely to emerge unless temperatures remained above normal for an extended period and caused demand for air-conditioning to rise sharply. Further, long-term cargoes were smoothly supplied to Northeast Asia this summer and players were inactive in buying spot cargoes.

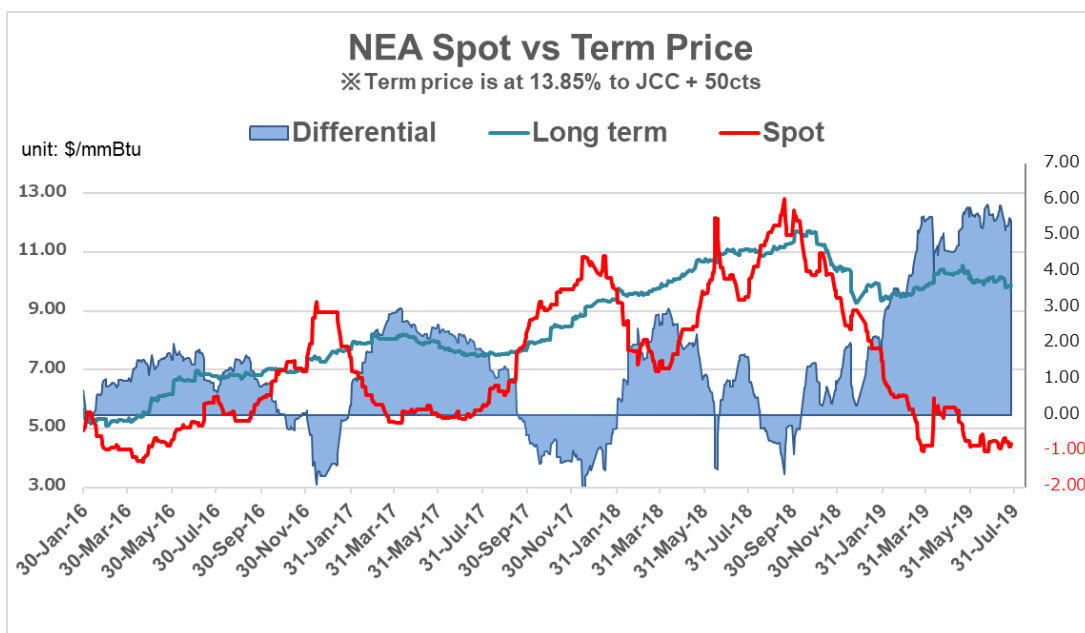
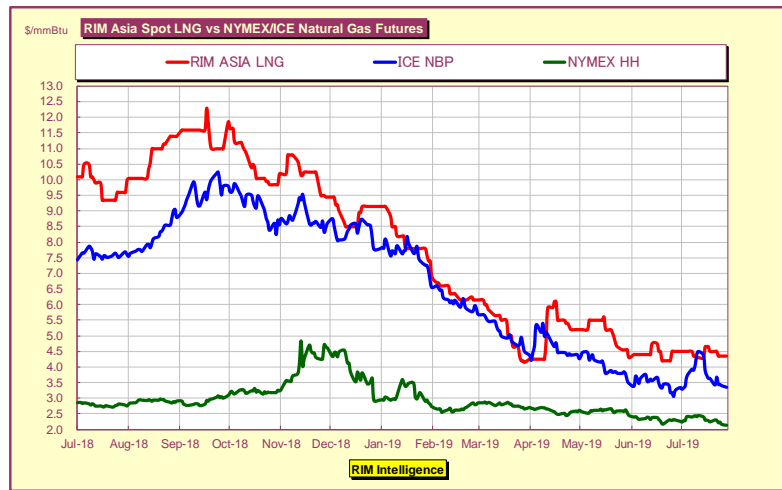
S-Oil and POSCO buy tender seen awarded to long-term supplier

Korea’s S-Oil and POSCO was seen to have awarded their joint buy tender closed on Jul 25 to a term supplier of one of the companies. S-Oil had a term contract with Malaysian state-owned Petronas starting 2018 while POSCO was taking 440,000mt/year of term cargoes from the 7.60 mil mt/year Tangguh project in Indonesia and also 6 cargoes a year from 2019 from Mitsui.

Petronas requests delay in long-term cargo supply

At the Bintulu project in Malaysia, shipment of cargoes had been apparently delayed temporarily.

This was because troubles had occurred at the Sabah Sarawak Gas Pipeline (SSGP) on Jun 17 and its No.7 and No.8 liquefaction trains suspended operation. One of long-term customers received request to postpone delivery of cargoes. But cargo supply was not delayed and the customer would take the cargoes on schedule in the end. In addition, some long-term customers did not receive the request for the delay. Although two to three tankers were waiting off the coast of the Bintulu project to pick up cargoes, the shipment schedule was not largely delayed.



○South Asia**DES South Asia falls with ample availability**

Ex-ship South Asia prices fell 15cts from the previous day to \$4.10-4.40 for the second-half August delivery and to \$4.20-4.50 for the first-half and second-half September delivery. Although demand for short-covering was seen for India and Pakistan, supply/demand fundamentals loosened as ample availability was seen from projects in the Middle East, Australia, and Atlantic basin. Prices for second-half August delivery to India was believed

to be \$4.20-4.30. Meanwhile, prices for first-half and second-half September delivery were believed to be little higher than second-half August delivery prices, forming a small contango in the market. Aside from short-cover demand from India, demand was also seen from end-users as Indian Oil Corp (IOC) would be closing a buy tender for two cargoes to be delivered in September on Jul 30. IOC would be receiving the cargoes at the 17.50mil mt/year Dahej terminal and the 5.00mil mt/year Ennore terminal.

○Middle East**FOB Middle East softens with a sense of looseness in fundamentals**

FOB Middle East prices fell 15cts on Tuesday to \$2.85-3.15 for second-half August loading and to \$2.95-3.25 for first-half and second-half September loading. In addition to Egypt and Abu Dhabi, ample availability was also seen from the 77.00mil mt/year Qatar project and the 10.40mil mt/year Oman project. Meanwhile, demand from neighboring Kuwait and Dubai and from Northeast Asia was limited and supply/demand fundamentals were loose. Sources said that prices for August loading cargo had dropped to around \$3.00. And September loading prices were about 10cts higher than August loading.

DES Middle East down on slack fundamentals

DES Middle East prices softened 15cts from the previous day to \$4.00-4.30 for second-half August delivery and \$4.10-4.40 for first-half and second-half September delivery. Amid limited spot demand, supply/demand fundamentals were somewhat slack. Dubai Supply Authority (DUSUP) and Emirates National Oil Company (ENOC) were

buying cheap cargoes for prompt delivery sporadically but Kuwait Petroleum Corporation (KPC) and Jordan's National Electric Power Company (NEPCO) refrained from spot purchase. In the Middle East, spot cargoes were available from Oman, Qatar and the 5.60 mil mt/year Das Island project in the United Arab Emirates (UAE). A European trader pointed out that bearish sentiment caused prices for second-half August and September delivery to fall by 10-20cts.

Montoir re-export cargo sold to Dubai on spot basis

The 173,400cbm MEGI tanker "BW Tulip", carrying a re-export cargo from the 8.00 mil mt/year Montoir terminal in France arrived in Dubai in the UAE on Jul 26. The cargo was jointly purchased by DUSUP and ENOC. A shipping source reckoned that the cargo was sold by a European trader on a spot purchase and might be from the 15.50 mil mt/year Yamal project in Russia. The Montoir terminal received a number of Yamal cargoes in June to July.

○Atlantic Region**FOB Atlantic weaken along with FOB Middle East prices**

FOB Atlantic prices were weakened 15cts from a day before. Prices were assessed to \$2.95-3.25 for first-half and second-half August loading and \$3.05-3.35 for first-half September loading. Prices weakened along with fell in FOB Middle East prices.

Natural gas supply to the 14.95mil mt/year Cameron project in the US were stopped due to maintenance held after the commissioning of the project. However, ample availability was seen in the US as production was well in the 22.50mil mt/year Sabine Pass project and the 13.50mil mt/year Corpus Christi project. In addition, availability was

also seen from the 16.50mil mt/year Yamal project in Russia, the 5.50mil mt/year Angola project, and the 22.00mil mt/year Bonny project in Nigeria and ample supply was seen.

NLNG sell tender awarded to Shell

For an FOB-based sell tender closed by state-run Nigeria LNG (NLNG) on Jul 22, Royal Dutch Shell plc was said to have won it. The tender was conducted for one Jul 31- Aug 1 loading cargo and two Jul 31 to Aug 28 loading cargoes. It was not known whether Shell won all of these cargoes. Shell

earlier won a Jul 9-10 loading cargo in a sell tender NLNG closed on Jun 20.

Angola LNG's two sell tenders awarded to traders

Two sell tenders closed by Angola LNG closed on Jul 11 and Jul 23 were seemingly awarded to traders. European trader Gunvor was said to have won one of these cargoes. Angola LNG closed a sell tender on Jul 11 for an Aug 21-27 delivery cargo and another tender on Jul 23 for an Aug 16 to Sep 5 delivery cargo. Both cargoes could be delivered up to Singapore.

○Europe

DES Europe slips; gas demand not growing with temperatures not rising

DES Europe prices slipped 15cts from the previous day to \$3.65-3.95 for first-half and second-half August delivery and to \$3.75-4.05 for first-half September delivery. Demand for power generation and air-conditioning did not grow. Although temperatures rose to above 30 degrees Celsius in Spain, the daily highest temperature was only in the low to mid-20's degrees Celsius in

France, the Netherlands, and the UK. Natural gas flow from Norway was recovering and ample natural gas was supplied from Russia. Natural gas inventories were generally high. A European trader mentioned that spot LNG demand was only intermittently seen from Spain, adding that inventories were built and re-export was slightly increasing. The trader pointed out that the market for both August and first-half September delivery fell around 10-20cts from a day before.

○South America

DES South America softens to DES Europe level

DES South America prices softened 15cts from the day before to \$3.65-3.95 for first-half and second-half August delivery, and to \$3.75-4.05 for first-half September delivery. Demand was weak from end-users as well as from traders to cover short positions. On the other hand, since ample cargoes were available from the Atlantic basin including the US, Trinidad and Tobago, Nigeria and Angola, supply/demand fundamentals were remarkably loose. A European trader emphasized that supply/demand was loose, adding that August and first-half September delivery markets were as weak as the DES Europe market.

YPF charters in "Excalibur" to sell Tango FLNG cargoes

Argentina's state-run YPF was moving to sell cargoes from the Tango FLNG. YPF, which considered selling cargoes on a DES basis as well as on an FOB basis, chartered in a tanker this month. US Excelerate chartered out the 138,200 cbm conventional tanker "Excalibur" up until May 2020. Meanwhile, shipments from the Tango FLNG were expected to take a long time until full-fledged production and commercial supply started. A market source in the shipping industry said that since it would take 40-50 days to ship a standard size cargo, YPF had chartered in the tanker for a certain period, and not for a short time such as one to two voyages.

○Freight Market

Freight market stays intact amid strong sentiment with sporadic demand for long haul

For short term charter of less than three months, daily rates stayed intact from the previous day at

\$34,000-39,000 for conventional tankers, \$54,000-59,000 for DFDE and TFDE tankers and \$62,500-67,500 for MEGI and X-DF tankers. Demand was observed from not only portfolio players but also producers and end-users. Supply/demand fundamentals were not loose. While construction of new tankers was completed one after another, many of these tankers were tied to projects and few of them would be released to the spot market. A market source in the shipping industry said, "Cargo flow from the Atlantic basin including the US to South Asia and Northeast Asia was firm. Demand for long hauls is witnessed. Sentiment in the short-term chartering market is bullish."

Ichthys LNG charters in DFDE tanker for short term to transport mid Aug loading cargo

Ichthys LNG sold two cargoes from the Ichthys project via its sell tender closed on Jul 26. Ichthys LNG initially planned to sell cargoes for Aug 14-16 and Sep 1-4 loading on an FOB basis when it issued the tender, but Ichthys LNG was said to have finally sold the cargo for Aug 14-16 loading on a DES basis. At the same time, Ichthys LNG was in talks for chartering in a tanker. It finally chartered in the 160,000cbm DFDE tanker "Golar Frost" for a short term from the Cool Pool and would use the tanker to transport the cargo.

○Long term and project

APLNG plans maintenance twice during Aug-Sep

The 14.00 mil mt/year Australia Pacific LNG (APLNG) project would undergo maintenance during Aug 6-13 and Sep 10-17. While the schedule might change slightly, the maintenance this time would be the last for this year. During each

maintenance period, one of two liquefaction trains would continue operating. Kansai Electric Power and Sinopec were taking 1.00 mil mt/year and 7.00 mil mt/year from APLNG, respectively. At present, production at the APLNG project seemed to be in surplus owing to weak demand in China and Japan.

○Japan Domestic Natural Gas Market

JERA renewing old power plants

JERA was renewing old power plants. The company prepared an environmental evaluation on Jul 24 regarding the construction of the No.1 to 3 units (total output 1,950MW) of the Anegasaki power plant. Before reconstruction, the No.1 and No.2 units were using crude and fuel oil as fuel but for the new facilities, only LNG would be used. The No.3 was using crude, fuel oil and LPG but would

only use LNG after reconstruction. The new units would start up in 2023. JERA was also renewing the No.1 and 2 units of the Yokosuka thermal power plant. These units were oil-fired power plants but would be rebuilt as high-efficiency coal-fired units. Construction would start in August. A source at JERA mentioned that factors such as power demand going forward and costs would determine whether old facilities were scrapped or reconstructed.

○NYMEX/ICE Natural Gas Future Market Commentary (Jul 29)

H.H. Aug gas slides with temperatures below seasonal norms

The August natural gas contract on NYMEX closed at \$2.141 per million British thermal units (mmBtu) on Monday, down 2.8cts from last Friday, amid selling tied to an expected drop in demand for air-conditioning as weather forecasts stated that temperatures would be below seasonal norm until this weekend in the US Midwest, prime gas consuming area.

The August natural gas contract of NBP on ICE in London settled at \$3.356, down 5.2cts from last Friday, amid selling tied to an increase in gas supply from Norway to the UK. Meanwhile, according to the latest data provided by British multinational electricity and gas utility National Grid plc, the physical price for gas delivered on Sunday, Jul 28, correlated to \$3.239, down 10.6cts from the previous day.

In NYMEX ACCESS TRADE, the front-month September natural gas contract as of 9:20am local

time on Tuesday was trading at \$2.119/mmBtu, up 0.3cts from the close on Monday.

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○ TEPCO Daily: oil, gas & coal fired capacity estimated at 34,890MW

Japanese largest utility Tokyo Electric Power Co (TEPCO) had 34,890 megawatts (MW) of available capacity tied to fossil fuel (oil, gas, coal) power generation, a figure that represents roughly 69% of its total capacity including solar power and so on, as of 08:30 Tokyo time on Tuesday based on Rim Intelligence's projection. The total capacity was forecast to reach 50,930 MW, while estimated peak demand was at 42,320 MW in Tokyo area.

The Japan Meteorological Agency has forecasted temperatures in Tokyo to reach a daily high of 34 degrees Celsius.

Meanwhile, total peak demand for nine areas (excluding Okinawa) has been foreseen at 155,790 MW for which a total of 176,440 MW of power will be available.

(unit: MW)	Estimated Available Capacity		Estimated Peak Demand in Tokyo Area
	Oil, Gas & Coal	Total	
Tuesday	34,890	50,930	42,320
Monday	33,060	48,620	41,900

○ Japan June LNG imports down 6.6% from previous month (details): MOF

Imports of liquefied natural gas (LNG) by Japan in June reached 5.20 mil metric tons (mt), down 6.6% from the previous month, according to import data released by Japan's Ministry of Finance (MOF). The Kawasaki terminal pulled in the largest volume in June receiving a total of 690,175mt followed by Kisarazu with 683,585mt and Osaka Sakai at 581,969mt.

Port	Country	19-Jun			Jan-Jun 2019		
		Volume	Amount (1,000 yen)	Unit Price (1,000 yen)	Volume	Amount (1,000 yen)	Unit Price (1,000 yen)
Ishikari	Brunei	-	-	-	67,962	4,017,627	59.116
	Russia	128,999	6,104,974	47.326	387,679	20,247,316	52.227
	Australia	-	-	-	62,468	3,956,502	63.336
	Total	128,999	6,104,974	47.326	518,109	28,221,445	54.47
Hachinohe	Malaysia	-	-	-	64,452	4,295,012	66.639
	Peru	-	-	-	68,549	3,813,758	55.636
	Australia	-	-	-	66,154	4,487,985	67.841
	Total	-	-	-	199,155	12,596,755	63.251
Sendaishiogama	Malaysia	16,000	1,081,847	67.615	136,280	8,513,769	62.473
	Indonesia	-	-	-	63,382	4,105,560	64.775

	Qatar	-	-	-	148,952	9,456,948	63.49
	Peru	-	-	-	60,160	2,755,897	45.809
	Australia	69,476	3,932,347	56.6	69,476	3,932,347	56.6
	Total	85,476	5,014,194	58.662	478,250	28,764,521	60.145
Sooma	Malaysia	-	-	-	123,288	7,260,842	58.893
	Australia	-	-	-	28,887	1,678,423	58.103
	Total	-	-	-	152,175	8,939,265	58.743
Hitachi	Malaysia	-	-	-	176,545	11,515,167	65.225
	Russia	-	-	-	64,537	3,526,825	54.648
	Australia	55,568	2,883,705	51.895	121,328	7,129,768	58.764
	Total	55,568	2,883,705	51.895	362,410	22,171,760	61.179
Chiba	Malaysia	58,707	2,701,886	46.023	295,677	13,336,222	45.104
	Brunei	195,812	11,208,300	57.24	1,578,008	96,731,757	61.3
	Qatar	-	-	-	59,845	3,857,723	64.462
	Oman	-	-	-	64,385	3,261,744	50.66
	Russia	-	-	-	322,933	16,768,574	51.926
	Australia	311,521	17,173,674	55.128	2,064,563	127,229,691	61.625
	Papua New Guinea	-	-	-	65,957	4,637,260	70.307
	Total	566,040	31,083,860	54.915	4,451,368	265,822,971	59.717
Kisarazu	Malaysia	-	-	-	292,538	13,552,812	46.328
	Brunei	-	-	-	68,441	3,980,487	58.159
	Indonesia	123,487	5,416,687	43.864	307,112	15,657,402	50.983
	Qatar	119,170	6,457,418	54.187	913,312	51,647,362	56.55
	Oman	64,331	3,187,889	49.554	126,544	6,327,214	50
	Abu Dhabi	-	-	-	423,121	28,912,275	68.331
	Russia	-	-	-	129,401	7,429,306	57.413
	US	69,521	3,183,516	45.792	133,984	6,319,948	47.169
	Egypt	-	-	-	62,119	3,495,559	56.272
	Australia	76,704	3,742,619	48.793	1,785,428	116,573,942	65.292
	Papua New Guinea	230,372	13,029,210	56.557	524,769	31,036,041	59.142
	Total	683,585	35,017,339	51.226	4,766,769	284,932,348	59.775
Yokohama	Malaysia	-	-	-	422,702	22,055,532	52.177
	Russia	64,622	3,334,434	51.599	194,125	9,949,026	51.251

	Australia	59,524	3,245,019	54.516	1,211,783	72,892,509	60.153
	Total	124,146	6,579,453	52.998	1,828,610	104,897,067	57.364
Kawasaki	Malaysia	121,828	6,392,215	52.469	487,231	22,338,890	45.849
	Brunei	65,057	3,686,561	56.667	125,052	7,405,481	59.219
	Indonesia	63,339	3,417,826	53.961	121,255	6,127,156	50.531
	Qatar	117,330	6,350,479	54.125	475,430	26,329,198	55.38
	Oman	-	-	-	62,499	2,866,843	45.87
	Abu Dhabi	60,336	2,781,799	46.105	909,376	58,302,511	64.113
	Russia	64,884	3,396,511	52.347	320,061	17,597,838	54.983
	US	-	-	-	589,361	36,336,173	61.654
	Australia	197,401	11,023,965	55.846	2,067,593	126,945,175	61.398
	Papua New Guinea	-	-	-	205,454	13,865,502	67.487
	Total	690,175	37,049,356	53.681	5,363,312	318,114,767	59.313
Niigata	Malaysia	-	-	-	523,035	29,859,508	57.089
	Indonesia	-	-	-	120,000	6,866,153	57.218
	Qatar	59,334	3,191,937	53.796	177,944	10,575,347	59.431
	Oman	66,940	3,469,405	51.829	66,940	3,469,405	51.829
	Russia	65,098	3,564,286	54.753	387,076	23,637,047	61.066
	Australia	-	-	-	407,213	24,671,881	60.587
	Total	191,372	10,225,628	53.433	1,682,208	99,079,341	58.898
Naoetsu	Malaysia	-	-	-	59,342	3,370,869	56.804
	Brunei	-	-	-	67,625	4,748,688	70.221
	Indonesia	55,253	3,255,865	58.926	55,253	3,255,865	58.926
	Qatar	-	-	-	59,221	3,123,185	52.738
	Russia	-	-	-	193,888	10,678,080	55.073
	Peru	-	-	-	65,063	4,197,772	64.519
	Australia	141,948	7,092,064	49.962	526,500	31,408,942	59.656
	Papua New Guinea	-	-	-	229,160	11,879,521	51.839
	Total	197,201	10,347,929	52.474	1,256,052	72,662,922	57.85
Shimizu	Malaysia	3,000	166,705	55.568	126,047	7,917,722	62.816
	Qatar	-	-	-	63,084	4,141,883	65.657
	US	62,111	2,845,709	45.817	62,111	2,845,709	45.817
	Australia	65,301	3,220,616	49.32	265,304	16,608,784	62.603

	Papua New Guinea	-	-	-	132,396	9,066,356	68.479
	Total	130,412	6,233,030	47.795	648,942	40,580,454	62.533
Nagoya	Malaysia	120,419	5,305,646	44.06	645,176	33,178,628	51.426
	Indonesia	-	-	-	271,987	17,192,575	63.211
	Qatar	57,785	3,134,524	54.245	884,238	53,798,421	60.842
	Oman	-	-	-	62,501	2,165,842	34.653
	Russia	-	-	-	257,961	15,700,359	60.863
	US	-	-	-	136,425	7,689,859	56.367
	Algeria	-	-	-	61,438	2,505,334	40.778
	Nigeria	-	-	-	70,147	4,048,404	57.713
	Australia	265,876	14,221,488	53.489	1,019,761	61,208,241	60.022
	Papua New Guinea	-	-	-	146,346	7,927,514	54.17
	Total	444,080	22,661,658	51.031	3,555,980	205,415,177	57.766
Yokkaichi	Malaysia	62,637	3,162,543	50.49	306,448	16,798,481	54.817
	Indonesia	60,770	3,312,622	54.511	454,143	29,104,474	64.087
	Qatar	155,320	8,705,381	56.048	993,035	62,064,195	62.5
	Russia	-	-	-	64,430	3,427,396	53.196
	US	69,379	3,856,949	55.592	69,379	3,856,949	55.592
	Peru	-	-	-	140,667	7,572,540	53.833
	Australia	63,597	4,109,517	64.618	541,483	33,438,725	61.754
	Papua New Guinea	74,151	3,938,749	53.118	74,151	3,938,749	53.118
	Total	485,854	27,085,761	55.749	2,643,736	160,201,509	60.597
Osaka Sakai	Malaysia	61,291	3,526,012	57.529	296,645	16,642,249	56.102
	Brunei	-	-	-	262,848	15,108,648	57.481
	Indonesia	63,518	3,389,985	53.37	540,430	32,527,041	60.187
	Qatar	-	-	-	58,293	3,836,007	65.806
	Oman	187,827	9,139,355	48.658	702,867	36,022,080	51.25
	Russia	-	-	-	255,338	10,440,658	40.89
	US	72,375	4,047,421	55.923	277,292	16,369,695	59.034
	Nigeria	-	-	-	63,786	2,237,247	35.074
	Australia	132,088	5,612,979	42.494	1,283,210	75,444,605	58.794
	Papua New Guinea	64,870	3,599,590	55.489	441,492	28,050,112	63.535
	Total	581,969	29,315,342	50.373	4,182,201	236,678,342	56.592

Himeji	Malaysia	-	-	-	239,231	13,889,669	58.06
	Brunei	65,141	3,741,372	57.435	254,865	15,543,331	60.987
	Indonesia	129,386	7,114,301	54.985	328,138	20,182,892	61.507
	Qatar	-	-	-	424,394	25,816,957	60.833
	Oman	-	-	-	57,418	4,327,294	75.365
	Russia	-	-	-	64,158	3,160,248	49.257
	US	-	-	-	73,076	4,090,701	55.979
	Peru	-	-	-	59,607	3,848,738	64.569
	Nigeria	74,034	4,198,650	56.712	74,034	4,198,650	56.712
	Australia	193,229	10,578,676	54.747	1,572,957	93,582,074	59.494
	Papua New Guinea	-	-	-	148,718	8,662,403	58.247
	Total	461,790	25,632,999	55.508	3,296,596	197,302,957	59.851
	Mizushima	Malaysia	-	-	-	122,920	7,710,332
Australia		55,772	3,004,842	53.877	345,353	18,828,390	54.519
Total		55,772	3,004,842	53.877	468,273	26,538,722	56.674
Hiroshima	Malaysia	8,025	565,298	70.442	63,603	4,891,125	76.901
	Indonesia	-	-	-	7,889	434,111	55.027
	Russia	16,300	1,086,707	66.669	90,076	6,403,399	71.089
	Australia	-	-	-	50,034	3,541,574	70.783
	Total	24,325	1,652,005	67.914	211,602	15,270,209	72.165
Iwakuni	Malaysia	-	-	-	62,910	3,333,790	52.993
	Qatar	-	-	-	59,995	3,866,112	64.441
	Oman	62,968	3,221,448	51.16	250,721	13,198,962	52.644
	Australia	56,701	3,079,464	54.311	342,400	20,088,051	58.668
	Total	119,669	6,300,912	52.653	716,026	40,486,915	56.544
Sakaide	Malaysia	-	-	-	181,815	10,042,507	55.235
Tobata	Malaysia	56,244	2,889,774	51.379	113,186	6,495,098	57.384
	Indonesia	-	-	-	119,408	8,098,519	67.822
	Russia	64,302	1,991,994	30.979	258,679	13,469,551	52.071
	Australia	-	-	-	105,309	6,557,881	62.273
	Papua New Guinea	-	-	-	69,488	4,488,123	64.588
	Total	120,546	4,881,768	40.497	666,070	39,109,172	58.716
Nagasaki	Malaysia	8,328	518,958	62.315	24,672	1,691,873	68.575

Ooita	Indonesia	-	-	-	54,014	3,708,361	68.656
	Russia	-	-	-	95,447	5,390,759	56.479
	Australia	44,766	2,584,814	57.741	400,032	27,117,639	67.789
	Total	44,766	2,584,814	57.741	549,493	36,216,759	65.909
Kagoshima	Australia	-	-	-	67,030	4,824,706	71.978
Okinawa	Australia	-	-	-	65,844	5,308,145	80.617
Grand Total		5,200,073	274,178,527	52.726	38,336,698	2,265,870,609	59.104

TABLE 7/30 LNG Cargo Arrivals at Tokyo Bay

Japan LNG Terminal Cargo Arrivals						
Arrival	Terminal	Carrier	Capacity(cum)	Capacity(mt)	Origin/Last Port	Note
Tokyo Bay						
05-Aug-19	Ogishima	LNG Schneeweisschen	180,000	82,800	Sabine Pass	
04-Aug-19	Futtsu	Woodside Chaney	174,000	80,040	Wheatstone	
04-Aug-19	Sodegaura	Puteri Delima	130,405	59,986	Malaysia	
03-Aug-19	Futtsu	Seri Cempaka	150,000	69,000	Malaysia	
03-Aug-19	Ogishima	GasLog Sydney	155,000	71,300	Cameron	
02-Aug-19	Sodegaura	Arkat	148,000	68,080	Brunei	
02-Aug-19	Ogishima	Northwest Sandpiper	127,500	58,650	NWS, Australia	
01-Aug-19	Negishi	Puteri Mutiara Satu	137,100	63,066	Malaysia	
01-Aug-19	Futtsu	Sean Spirit	174,000	80,040	NWS, Australia	
TOTAL			1,376,005	632,962		
30-Jul-19	Ogishima	Cygnus Passage	145,400	66,884	Russia	
30-Jul-19	Negishi	LNG Pioneer	138,000	63,480	Darwin, Australia	
30-Jul-19	Ogishima	Energy Progress	145,000	66,700	Pluto, Australia	

TABLE 7/30 LNG exports from NWS, Australia

LNG Exports from Australia				
Arrival	Carrier	Capacity(cum)	Capacity(mt)	Note
Dampier (NWS)				
06-Aug-19	LNG Dream	145,000	66,700	
01-Aug-19	Kita LNG	159,760	73,490	
Total		304,760	140,190	
31-Jul-19	Grace Cosmos	150,000	69,000	
30-Jul-19	Palu LNG	159,760	73,490	
27-Jul-19	Dapeng Star	147,100	67,666	

26-Jul-19	Seri Anggun	145,000	66,700
25-Jul-19	Northwest Shearwater	127,500	58,650
22-Jul-19	Trader	138,000	63,480
20-Jul-19	Sean Spirit	174,000	80,040

TABLE 7/30 LNG Cargo Arrivals at Taiwan Terminal

LNG Cargo Arrivals at Taiwanese Terminals						
Arrival	Terminal	Carrier	Capacity(cum)	Capacity(mt)	Origin	Note
28-Jul-19	Yung An	Asia Energy	160,000	73,600	NWS, Australia	
27-Jul-19	Taichung	Titor No2	145,000	66,700	Qatar	
26-Jul-19	Yung An	Maran Gas Roxana	173,400	79,764	Gorgon, Australia	
24-Jul-19	Yung An	Puteli Intan Satu	137,100	63,066	Malaysia	
23-Jul-19	Taichung	Titor No3	145,000	66,700	Qatar	
23-Jul-19	Yung An	Seri Alam	145,000	66,700	Malaysia	
21-Jul-19	Yung An	Kumul	170,000	78,200	Papua New Guinea	
20-Jul-19	Taichung	Grand Aniva	147,200	67,712	Sakhalin 2	
18-Jul-19	Yung An	Grand Elena	147,200	67,712	Sakhalin 2	
17-Jul-19	Taichung	Lusail	145,000	66,700	Qatar	
15-Jul-19	Yung An	Puteli Mutiara Satu	137,100	63,066	Malaysia	
14-Jul-19	Yung An	Seri Cemara	150,200	69,092	PFLNG, Malaysia	
13-Jul-19	Taichung	Titor No1	145,000	66,700	Qatar	
12-Jul-19	Yung An	Pacific Breeze	180,000	82,800	Ichthys, Australia	
11-Jul-19	Taichung	Golar Grand	145,700	67,022	Gorgon, Australia	
10-Jul-19	Yung An	Ob river	150,000	69,000	Sakhalin 2	
08-Jul-19	Taichung	Titor No4	145,000	66,700	Qatar	
07-Jul-19	Yung An	British Contributor	173,400	79,764	NWS, Australia	
05-Jul-19	Yung An	Spirit of Hela	177,000	81,420	Papua New Guinea	
03-Jul-19	Taichung	Fuwairit	138,000	63,480	Qatar	
01-Jul-19	Yung An	Flex Enterprise	173,400	79,764	Wheatstone, Australia	
		Total	3,229,700	1,485,662		

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