

# LNG ANNUAL 2016



## A must-read to follow the latest trend in LNG, key energy source for Japanese electricity policy

The Rim LNG Annual 2016 contains information about not only liquefaction and receiving terminals in the world but also contract data of all the firms involved in LNG. It also contains trade statistics about LNG and natural gas as well as shipping information. Data on Rim LNG spot price assessment and futures contract prices in the UK and the US are also included. Since the first issue, the book has helped people in LNG-related industries understand market prices and supply/demand of LNG.

## A must-read to catch the latest trend in LNG

Rim Intelligence Co., which has provided energy news for around 30 years, published the first edition of LNG Annual in 2010 to explain the latest trend of LNG market throughout the world or worldwide limelight. The Annual was widely used by central governments, national companies, majors, oil, gas and power companies, traders. We believe that the newly revised 2016 edition will be beneficial to those interested in energy topics as well as market players.

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Outline of Brunei's Project

Project	Investor	Investment ratio (%)	Production capacity (mtpa)	No. of Train	Start-up	Importing Country	Buyer	Quantity (mtpa)	Start of purchase	Remark	
Brunei LNG	Shell	50.00	7.10	5	1973	Japan	Tokyo Gas	2.33	Apr 2013	10 yrs	
	Shell Petroleum Mitsubishi Corp.	25.00				Tokyo Gas	1.00	0.37			
						D.Korea	KOGAS	1.0+1.5			2013
						na	Shell	0.50			Apr 2013
Total			7.10							5.2-6.7	

Outline of Indonesia's Project

Project	Investor	Investment ratio (%)	Production capacity (mtpa)	No. of Train	Start-up	Importing Country	Buyer	Quantity (mtpa)	Start of purchase	Remark
Bontang	Pertamina (KOCOR ENI) JILCO Total	55.00	22.30	16	1977	Japan	Kansai Elec	3.0	2011	3.0 mtpa from 2011-2015, 2.0 mtpa from 2016-2020 (Western Buyer Contract)
						Tokyo Gas	2.31	1984	expired	
						Daika Gas	0.39	1996	expired	
						D.Korea	KOGAS	2.0	1984	expired
						Taiwan	CPC	1.54	1985	20 yrs
Tanggul	BP CNOOC LX Energy Mitsubishi INPEX LNG Japan IG Berasu Taitelman Mitsu	37.10	7.60	2	2009	Norway	Bergsjo	2.7	2009	1.7 mtpa can be diverted
						China	CNOOC	3.6	2009	20 yrs
						POSCO	0.58	2009	20 yrs	
						S.Korea	SK E&S	0.6	2009	20 yrs
						Japan	Kansai Elec	1.0	2014	22 yrs
						Tokoku Elec	0.12	2010	15 yrs	
Donggi Seroti	Mitsubishi Pertamina KOGAS MEDCOOD	45	2.00	1	2014	Japan	Chubu Elec	1.00	2015	14 yrs
						Chubu Elec	0.36	0.70		
Total			31.90							21.61

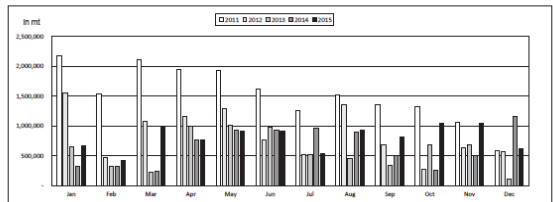
Receiving Terminal in China

Terminal	Investor	Investment ratio (%)	Receiving volume (mtpa)	Type of Liquefaction	Number of Train	Start-up	Supply Country	Supplier
Guangdong Dapeng	CNOOC	33						
	BP Pearl River Delta Investments	15						
	BP Guangdong Investments	15						
	Shenzhen Gas Corporation	10						
	Guangdong Yuhuan Natural Gas Co	6						
	Guangdong Gas Group	6	6.70	Onshore	4	Sep 2006	Australia, Qatar	NWCV, Catargas
	Shenzhen Energy Group Co	4						
	Hong Kong Elec Natural Gas	3						
	Hong Kong & China Gas Investment	3						
	Dongguan Fuel Industry General Company	2.5						
Fujian Medzhou	CNOOC Fujian Medzhou	60	2.60	Onshore	4	2008	Indonesia	Pertamina
Shanghai Yangfang	CNOOC Senergy Group	45	3.00	Onshore	3	2009	Malaysia	Petronas
Tianjin (Phase 1)	CNOOC	100	2.60	FSRU	1	Apr 2013	Single Portfolio	Engie
Zhuhai (Gaolan)	CNOOC	100	3.60	Onshore	3	2013	Australia, Qatar	Catargas etc
Zhejiang Ningbo	CNOOC Zhejiang Energy Group Ningbo Electric	51	3.00	Onshore	3	2008	Qatar, Australia	Catargas etc
Jiangsu Rudong	Jiangsu Guotai Investment Group Hong kong-based Pacific Oil & Gas	10	3.60	Onshore	3	2011	Qatar, Australia etc	Catargas (Shell) etc
Laoning Dalian	PetroChina	100	3.00	Onshore	3	2011	Qatar, Australia etc	Catargas (Shell)
Hebei Tangshan phase 1	PetroChina Beijing Enterprise Hebei Natural Gas	29	3.50	Onshore	3	2013	Qatar, Australia etc	Catargas (Shell)
Dongguan Guangqiang	ENVI Group	100	1.00	Onshore	2	2012	Malaysia	Petronas
Shanghai Wentougou	Shanghai Gas group	100	3.00	Onshore	3	2008	Malaysia	Petronas
Shandong Qingdao	Sinopec	100	3.00	Onshore	3	2014	Papua New Guinea	ExxonMobil
Hainan Yangpu (Phase 1) (Contracting)	CNOOC	65	2.00	Onshore	2	2014	na	na
Hebei Tangshan phase 2	PetroChina Beijing Enterprise Hebei Natural Gas	51	6.50	Onshore	na	na	Australia, Qatar	BC, Catargas
Shouhan	ENVI	100	3.00	Onshore	na	2017	na	na
Jiangsu Rudong Phase 2 (planned)	PetroChina	100	6.50	Onshore	na	na	na	na
Hainan Yangpu (Phase 2)	CNOOC Hainan Provincial Development Control	65	3.00	Onshore	na	2017-2020	na	na
Guangdong Shenzhen	PetroChina	100	4.00	Onshore	na	na	na	na
Shenzhen Diefu	CNOOC Shenzhen Energy Group	70	4.00	Onshore	4	2017-2018	na	na
Tianjin(Phase 2, 3)	CNOOC Tianjin Port Company Tianjin Gas Company	30	Over 6.00	Onshore	4 each	na	Single Portfolio	Engie

UK Monthly LNG Imports 2011-2015

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2011	2,193,481	1,837,284	2,106,620	1,940,867	1,822,121	1,623,876	1,263,428	1,820,263	1,348,711	1,331,324	1,053,048	879,703
2012	1,848,223	454,847	1,071,793	1,169,069	1,286,880	763,224	514,179	1,360,297	682,137	271,349	641,282	871,221
2013	650,347	319,708	221,081	992,204	1,018,232	953,437	520,982	453,774	348,427	698,669	652,160	114,280
2014	318,699	327,958	247,846	762,171	938,820	936,791	966,267	893,167	498,618	263,319	501,790	1,189,211
2015	662,255	426,007	1,000,318	772,608	921,980	914,334	836,666	930,766	817,309	1,061,237	1,041,196	821,228

Source : Eurostat



UK Monthly LNG Import Average Values 2011-2015

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2011	8.32	8.41	8.10	9.04	9.03	8.65	8.43	8.26	7.46	9.04	9.08	8.66
2012	8.05	7.65	8.06	9.03	8.57	7.33	7.28	7.91	8.39	8.91	9.33	9.70
2013	9.66	7.96	10.79	9.57	9.74	9.15	9.05	8.37	8.34	9.12	10.10	10.55
2014	9.69	9.00	8.16	8.52	8.13	7.51	6.25	6.12	5.37	4.67	7.50	7.31
2015	7.62	6.36	6.25	6.47	6.65	6.16	5.51	5.91	5.28	5.54	5.36	4.60

Source : Eurostat, mtpa-mmbtu conversion factor 51.6

