

List of Figures

Figure number	Title	Page number
1.1	Key elements of Natural Gas Supply Chain	1
1.2	World LNG Imports in million tonnes	2
1.3	World leading importers of LNG	3
1.4	World Leading Exporters of LNG	4
1.5	Natural-Gas Demand and availability	5
1.6	Natural-Gas Availability Profile	6
1.7	Trends in various Index prices of Natural Gas	7
2.1	An illustration of S-curve concept	17
2.2	An illustration of different slopes in S curve for different JCC prices	18
3.1	Outline of Research Design	63
4.1	A typical LNG value Chain process	72
4.2	Natural Gas Production and Consumption in BCM	73
4.3	The Growth of world Liquefaction Capacity	74
4.4	Liquefaction capacity in various countries as on 1 st January, 2016	76
4.5	Proposed FLNG as on 1 st , January 2016	78
4.6	LNG Fleet composition by size in cubic meter	79
4.7	Total number of voyages by World LNG ships	79
4.8	LNG order book as on 1 st January, 2016	81
4.9	LNG order book by volume and number of ships	81
4.10	Regasification capacity in MTPA in various countries as on 1 st January 2016	83
4.11	Growth of Capacity of Regasification as on 1 st January, 2016	84
4.12	Regasification capacity under construction as on 1 st January, 2016	84
4.13	LNG imports pricing mechanism in 2013	86
4.14	World price formation from 2005 till 2013 for total imports	87
4.15	Growth of Short term and Spot LNG cargoes in the world in MTPA	90
5.1	Descriptive Statistics for Henry Hub prices	92
5.2	Descriptive Statistics for Japanese Crude Cocktail prices (JCC)	95
5.3	Descriptive Statistics for Long term charter rates	102
5.4	Descriptive Statistics for Short Term charter rates	103

5.5	Descriptive Statistics for New Ship Building Prices	109
5.6	Monthly returns vs GARCH(1,1) volatility of New Ship Building prices	112
5.7	Monthly Returns vs EGARCH volatility of New Ship Building Prices	115