List of Figures

Figure 2.1	Yamakura Floating Solar Power Generation Station, Chiba Prefecture, Japan	2
Figure 2.2	Tengeh Floating Solar Farm in Singapore	3
Figure 2.3	Offshore Floating Solar Farm in Johor, Malaysia	4
Figure 2.4	Candidate Sites for PV in Brunei Darussalam	8
Figure 2.5	Toyoake Floating Mega Solar Power Plant	9
Figure 2.6	Operational Data for Toyoake FSPV, 2022	10
Figure 2.7	Irradiance Levels in Brunei Darussalam	11
Figure 4.1	Brunei Darussalam's Estimated Power Generation Output with	16
	Hydrogen Cofiring – BAU Scenario	
Figure 4.2	Brunei Darussalam's Estimated Power Generation Output with Hydrogen Cofiring – APS	19
Figure 4.3	ASEAN's Estimated Power Generation Output with Hydrogen Cofiring – BAU Scenario	20
Figure 4.4	ASEAN's Estimated Power Generation Output with Hydrogen Cofiring – APS Scenario	20
Figure 4.5	ASEAN's Estimated Hydrogen Demand for Cofiring in Power Generation – BAU Scenario	21
Figure 4.6	ASEAN's Estimated Hydrogen Demand for Cofiring in Power Generation – APS Scenario	22
Figure 4.7	Brunei Darussalam's Demand for Hydrogen in Terms of Energy in Three Hydrogen-powered Fuel Cell Vehicle Scenarios	23
Figure 4.8	Brunei Darussalam's Estimated Hydrogen Demand from the Road Transport Sector	24
Figure 4.9	ASEAN's Estimated Hydrogen Demand from the Road Transport Sector – BAU Scenario	25
Figure 4.10	ASEAN's Estimated Hydrogen Demand from the Road Transport Sector – APS	26
Figure 4.11	Brunei Darussalam's Estimated Hydrogen Demand from the Industry Sectors – Four Scenarios	28
Figure 5.1	Supply and Demand of Crude Oil in Brunei Darussalam	31
Figure 5.2	Supply and Demand of Petroleum Products in Brunei Darussalam	32

Figure 5.3	Supply and Demand of Natural Gas in Brunei Darussalam	33
Figure 5.4	Relation between Natural Gas Exports and Economic Growth	34
Figure 5.5	GDP Components of Brunei Darussalam	35
Figure 5.6	Simplified Economic Structure of a Country	36

List of Tables

Table 2.1	Current State and Plans for Global FSPV Installation	5
Table 2.2	Candidate Sites for PV in Brunei Darussalam	8
Table 2.3	Comparison of Climatic Data for Brunei Darussalam and Toyoake	10
Table 2.4	Capacity Factor at Toyoake	11
Table 3.1	Comparison between ALK and PEM	13
Table 3.2	PV Potential and H ₂ Production in Brunei Darussalam	14
Table 4.1	Brunei Darussalam's Estimated Hydrogen Demand by Industry Sector – Four Scenarios	29