

LIST OF TABLES

Table 4. 1: The initial proposed islands for the case studies.....	22
Table 4. 2: Regional development on Bengkalis Island.....	25
Table 4. 3: Spatial unit characterization on Bengkalis Island.....	26
Table 4. 4: ArcGIS map validation with real time satellite maps.	28
Table 4. 5: Area and activity in each spatial unit on Bengkalis Island.	32
Table 4. 6: Built-up area in each spatial unit on Bengkalis Island from 2022-2034 (top) and 2035-ultimate (bottom).	47
Table 4. 7: Building rule of thumb for each land use characteristic.	48
Table 4. 8: Standard load demands per area.	49
Table 4. 9: The maximum possible load on Bengkalis Island.	50
Table 4. 10: The projected peak load on Bengkalis Island from 2022-2033 (top) and 2034-2042 (bottom) has not been validated.....	51
Table 4. 11: Bengkalis System peak load data in September 2022.	52
Table 4. 12: The peak load projection for Bengkalis Island for 2022-2042 has been validated.	54
Table 4. 13: Monte Carlo simulation results on Bengkalis Island in the form of values.	57
Table 4. 14: Regional development on Sebatik Island.....	61
Table 4. 15: Spatial unit characterization on Sebatik Island.....	61
Table 4. 16: ArcGIS map validation with real time satellite maps.	63
Table 4. 17: Area and activity in each spatial unit on Sebatik Island.	67
Table 4. 18: The area of the built-up area in each spatial unit on Sebatik Island.	74
Table 4. 19: Building rule of thumb for each land use characteristic.	75
Table 4. 20: Standard load demands per area.	76
Table 4. 21: The maximum possible load on Sebatik Island.	77
Table 4. 22: The peak load projection for Sebatik Island from 2022-2033 has not been validated.	78
Table 4. 23: Peak load data for the Sebatik DPP System in October 2022.....	78
Table 4. 24: The projected peak load on Sebatik Island for 2022-2033 has been validated.....	79
Table 4. 25: Monte Carlo simulation results on Sebatik Island in the form of values.	83
Table 4. 26: Regional development on Moa Island.	85
Table 4. 27: Spatial unit characterization on Moa Island.....	86
Table 4. 28: ArcGIS map validation with real time satellite maps.	87
Table 4. 29: Area and activity in each spatial unit on Moa Island.....	90
Table 4. 30: The area of the built-up area in each spatial unit on Moa Island.	98
Table 4. 31: Building rule of thumb for each land use characteristic.	98
Table 4. 32: Standard load demands per area.	99
Table 4. 33: The maximum possible load on Moa Island.....	100
Table 4. 34: The projected peak load on Moa Island for 2022-2033 has not been validated.....	101
Table 4. 35: Moa System peak load data in January 2022.....	101
Table 4. 36: The projected peak load on Moa Island for 2022-2033 has been validated.....	103

Table 4. 37: Monte Carlo simulation results on Moa Island in the form of values.	106
Table 4. 38: Regional development on Rote Island.	109
Table 4. 39: Spatial unit characterization on Rote Island.	110
Table 4. 40: ArcGIS map validation with real time satellite maps.	111
Table 4. 41: Area and activities in each spatial unit on Rote Island.	114
Table 4. 42: The area of the built-up area in each spatial unit on Rote Island....	130
Table 4. 43: Building rule of thumb for each land use characteristic.	131
Table 4. 44: Standard load demands per area.	132
Table 4. 45: The maximum possible load on Rote Island.....	133
Table 4. 46: Rote Island peak load projections for 2022-2033 have not been validated.....	134
Table 4. 47: Rote System peak load data in January-September 2022.	135
Table 4. 48: Rote Island peak load projection 2022-2033 validated.....	135
Table 4. 49: Monte Carlo simulation results on Rote Island in the form of values.	139
Table 4. 50: Comparison of models between islands.....	140