



TABLE OF CONTENTS

PREFACE	i
TABLE OF CONTENTS	iii
LIST OF TABLES	vi
LIST OF FIGURES	vii
LIST OF ATTACHMENTS	viii
LIST OF ABBREVIATIONS	ix
ABSTRACT	x
CHAPTER 1 INTRODUCTION	1
1.1 Background.....	1
1.2 Problem Statement.....	4
1.3 Research Questions.....	5
1.4 Research Objectives.....	5
1.5 Research Benefits	6
1.6 Systematic of Writing	6
CHAPTER 2 THEORETICAL BACKGROUND	8
2.1 The System of EV Battery	8
2.2 Implementing Knowledge in EOL Management for EV Battery	10
2.3 Readiness Level Analysis	11
2.4 Policy and Regulation in the EV Battery Ecosystem	14
2.4.1 Battery Directive	14
2.4.2 Collection and Transportation Law for Hazardous Materials	15
2.4.3 Standardized Design	16



2.4.4	Competition Law in EV Battery Secondary Market.....	16
2.5	Economic Factors	17
2.5.1	Battery Price	17
2.5.2	Incentive.....	18
2.6	Social Factors.....	20
2.6.1	Behavioral Shifting Towards Clean Energy	20
2.6.2	Public Awareness Related to Sustainability	21
2.6.3	Certification for the Used EV Batteries	21
2.7	Summary.....	23
CHAPTER 3 RESEARCH METHODS		27
3.1	Research Approach.....	27
3.2	Sources of Data.....	28
3.2.1	Primary Data	28
3.2.2	Secondary Data	29
3.3	Data Collection Method.....	30
3.3.1	Individual Depth Interview Using Semi-Structured Interview	30
3.3.2	Criteria for Resource Person	31
3.3.3	Participant	33
3.4	Designing the Interviewing Questions.....	34
3.5	Data Analysis Method	36
3.5.1	Content Analysis.....	36
3.5.2	Innovation Readiness Analysis	37
3.6	Research Design	38
CHAPTER 4 RESULT AND DISCUSSION		40



4.1 Data Collection Result	40
4.2 Current Development of EV Battery Ecosystem in Indonesia	41
4.2.1 Regulatory Aspect	42
4.2.2 Economic Aspect	44
4.2.3 Social Aspect	47
4.3 Readiness Level Analysis	49
4.3.1 Regulatory Aspect	50
4.3.2 Economic Aspect	52
4.3.3 Social Aspect	54
CHAPTER V CONCLUSION.....	56
5.1 Conclusion	56
5.2 Research Limitation	57
5.3 Research Implication	58
5.3.1 Policy Implication	58
5.3.2 Managerial Implication	59
5.4 Future Research	61
REFERENCES	62