Contents

Abstract		(1)
Acknowledgn	nents	(3)
Contents		(5)
List of Tables	5	(7)
List of Figure	s	(9)
•		
Chapter 1	Introduction	1
	Background and Significance of Research Problem	1
	Research Objectives	4
	Research Hypotheses	4
	Scope of the Study	4
	Conceptual Framework	5
	Definition of Terms	6
	Expected Benefits	7
Chapter 2	Literature Review	9
	The Development Status and Problems of China's	
0	Photovoltaic Industry	9
	Photovoltaic Silver Paste	13
	Silver Powder Morphology	14
	Competitiveness	20
Chapter 3	Research Methodology	25
	Research Design	25
	Population and Sample Size	26
	Research Instruments	27
	Data Collection	29
	Data Analysis	31

Contents (continued)

			Page
Chapter 4	Research Resul	t	33
	Quality of Sil	ver Powder Before and After the	
	Implementat	ion of X Technology	33
	Production C	ost and Profit Margin of Silver Powder	
	Products Afte	er the Application of X Technology by the	02
	ABC Compan	У	37
	Benefits of A	pplying X Technology to ABC Company	
	Competitiver	ness, in Terms of Customer Product System,	6
	Production C	ost, Profit Margin and Market Share	43
Chapter E	Conclusion Di	reuseione & Decommondations	55
Chapter 5	Conclusion, Dis	scussions & Recommendations	55
			55 58
	Discussions Recommend		56 63
	Recommend		05
References			65
nelelences		e .	05
Appendix	00		69
Appendix	Appendix A	List of Experts for Research Instrument	09
		Assessment	73
	Appendix B	Certificate of Exemption from Human	15
		Research Ethics Review	77
0	Appendix C	Interview Guidelines	81
	прреник С		01
Biography			83

List of Tables

Tables		Page
3.1	Criteria for Selecting key Informants	27
3.2	Interview Guideline	27
4.1	Statistical Table of Qualified Rate and Direct Yield of Products	
	Before and After Application of X Technology in 2022 and 2023	33
4.2	Results of X Technology's Impact on ABC Company's Production	
	Cost	38
4.3	Sales Statistics of Various Silver Products of ABC Company from	
	2018 to 2023 (unit: kg)	40
4.4	Statistics of Silver Powder Supply Ratio to Major Customers	
	(Unit: kg)	42
4.5	Impact Results of X Technology on ABC Company's Customer	
	Product System	44
4.6	Effect of X Technology on ABC Company's Market Share	46
4.7	Results of the Impact of X Technology on the Profit Margin of	
	ABC Company	48
4.8	Changes in Quality, Production Cost and Profit Margin of Silver	
	Powder Products After Application of X Technology by ABC	
	Company	52
, a		
$\mathbf{\mathbf{b}}$		

wantamental and and a state of the state of

List of Figures

Figures		Page
1.1	Conceptual Framework	5
2.1	China PV Policy Milestones	10
4.1	Sales Statistics of Various Silver Powder Products of ABC	
	Company from 2018 to 2023	41
		Va
	S. S. T.	
	et a la	
	Salero	
2		

(9)