

CONTENTS

LIST OF ABBREVIATIONS	8
SUMMARY	10
INTRODUCTORY REMARKS.....	13
1. GERMAN ENERGY TRANSITION – ENERGIEWENDE ...	15
1.1 Origins and development of Energiewende	16
1.2 Goals of Energiewende	21
1.3 Regulatory environment of Energiewende	23
1.4 Energiewende actors and attitudes regarding the transformation.....	29
1.4.1 Political parties	29
1.4.2 Competence structure and its risks	36
1.4.3 Private actors	38
1.5 Technical indicators.....	42
1.5.1 Renewable energy sources.....	45
1.5.2 Conventional sources	47
1.5.3 Electricity consumption and energy efficiency	49
1.5.4 Import and export of electricity.....	50
1.5.5 Greenhouse gas emissions.....	52
1.5.6 Grid stability and security of supply	53
1.6 Financial indicators	60
1.6.1 Electricity Prices	60
1.6.2 RES financial subsidy schemes.....	65
1.7 Public support for Energiewende	68

2. ECONOMY AND INFLUENCE OF RENEWABLE SOURCES ON ELECTRICITY PRODUCTION AND TRADE	71
2.1 RES influence on the formulation of electricity price.....	72
2.2 RES influence on the flexibility of production capacities.....	77
2.3 RES influence on the construction of new sources	82
2.4 Summary.....	84
3. BUILDING OF EU INTERNAL ELECTRICITY MARKET.....	85
3.1 Cross-border electricity trade.....	87
3.2 Price convergence	89
3.3 Obstacles for market integration.....	90
4. THE FUTURE OF THE REGIONAL POWER SECTOR	93
4.1 Market design	94
4.2 Consequences	96
4.2.1 New industry sectors	97
4.2.2 Radical change in the entire electricity supply system.....	99
4.2.3 The role of traditional sources.....	101
5. IMPACT OF ENERGIEWENDE ON THE CZECH POWER SECTOR.....	103
5.1 Energy security and unscheduled electricity flows	103
5.1.1 Scheduled vs. unscheduled electricity flows	103
5.1.2 German-Czech electricity flows	104
5.2 Price signals	107
5.2.1 Market interconnecting and price convergence	108
5.2.2 Price volatility	112

5.3 Compatibility of the Czech energy strategy with the new market situation.....	114
5.3.1 Compatibility with EU law.....	116
5.3.2 Self-sufficiency as an objective	117
5.3.3 Long-term planning.....	123
5.3.4 Focus on nuclear energy	129
5.3.5 Summary.....	141
6. EUROPEANISATION OF ENERGIEWENDE.....	143
6.1 The issues which require an EU-wide solution.....	144
6.1.1 Fossil sources backup	145
6.1.2 Financial impacts of environmental regulation	146
6.1.3 Cross-border electricity trade.....	148
6.2 Issues which Germany does not transfer to the EU level.....	149
6.2.1 EU-wide nuclear power plant shutdowns	149
6.2.2 Integration of EU support of renewable sources.....	151
6.3 Instruments and advancement of the Europeanisation of Energiewende	154
6.3.1 European Internal Electricity Market (IEM)	156
6.3.2 EU ETS	158
6.4 Summary.....	159
7. SUMMARY.....	161
NAME INDEX	165
REFERENCES	166