

Nr.	Thesis Topic	REM Class Year
1	Investigation on the Solderability of Metal Layer Stacks for the Rear Side of Crystalline Silicon Solar Cell	2008/2009
2	Development of a Concept to Evaluate the Performance of a Ground Source Heat Pump Installation in an Industrial Facility	2008/2009
3	An Investigation of the Potential of Ireland to Establish a Domestic Manufacturing Industry in Wave Energy Converters	2008/2009
4	On the preparation and characterization of bulk-heterojunction solar cell based on quantum dot-polymer hybrid materials	2008/2009
5	An explorative analysis of driving factors and restraints leading the end-using behaviour in the German solar thermal energy market	2008/2009
6	Waste Biogas Plant Pre-Feasibility Study (Case Study the City of Surabaya, Indonesia)	2008/2009
7	Wertschöpfung durch solare Systeme zur Stromerzeugung in Städten - eine Fallstudie der Stadt Freiburg	2008/2009
8	Solar Cell Wafer Defects: Analysis and Automation	2008/2009
9	Target costing for a photovoltaic plant in India from a German project developer's perspective– example of a free field PV power plant (5 – 10 MW) in India.	2008/2009
10	Optimization of wrap through organic solar cells	2008/2009
11	Evaluation and further Development of a Solar Simulator for CPV Modules	2008/2009
12	Analysis of Renewable Energy Projects in Rural Kyrgyzstan - Opportunities z Challenges	2008/2009
13	Potential for Solar Energy in the Kuwaiti Oil Industry	2008/2009
14	Possiblities for residential thermal deferrable loads to enable the integration of variable renewable energy generation	2008/2009
15	CO2 Abatement Cost of Standard Renewable Energy and Energy Efficiency Technologies	2008/2009
16	An investigation of the role of energy storage in the future development of photovoltaic systems	2008/2009
17	Die Ermittlung der Biomasse in aufstockenden Beständen von Kurzumtriebsplantagen	2008/2009
18	Solar Water Heaters in Argentina - Market characterization and analysis of barrieres to diffusion	2008/2009
19	Site Selection and Evaluation for Concentrating Solar Projects using GIS software	2008/2009
20	Thin film solar cells on large-scale power plants	2008/2009
21	Ausgleich fluktuierender Stromeinspeisung aus Windkraftanlagen durch Nachfragesteuerung im deutschen Elektrizitätsnetz. Eine ökonomische Untersuchung ausgewählter flexibler Verbrauchs- potenziale im Vergleich zu alternativen Ausgleichsmöglichkeiten	2008/2009
22	Evaluation of encapsulation and barrier materials for organic solar cells & investigation of the ageing processes	2008/2009
23	Analysis of Photovoltaic market structure, energy policies and legal constitution in India	2008/2009



material, tracking and installation precision by implementing a ray tracing model 2008/21 25 Analysis of influencing factors for investments by the European hotel sector in renewable energies and improving energy efficiency 2009/21 26 First Nations Involvement in Environmental Assessement Review: Exploring Issues Around Best Practices Implementation in British Colombia's Renewable Energy Sector 2009/21 27 Potential and environmental assessment of integrated low carbon and circular economy measures in WuXi City 2009/21 28 Start-Up Company Guidebook, Biomethane Production from Organic waster 2009/21 29 Quantifying the effects of a varying solar spectrum on various photovoltaic tecnologies for Freiburg im Breisgau 2009/21 30 RENEWABLE ELECTRICITY IN ENERGY SYSTEMS – Uncertainty analysis for renewable energy sources in the electricity sector in Germany 2009/21 31 Policy Assessment for cross borders renewable energy projects in terms of grid-infrastructure 2009/21 32 Evaluation of Using IEC-61850 for Monitoring and Controlling Micro Combined Heat and Power Units 2009/21 33 Control Concept Development for the Use of PV-Inverters as DC-Fast Charger for Electric Vehicles 2009/21 34 Implementation of a simulation tool for electric energy generation of PV-systems in private buidings 2009/21	Nr.	Thesis Topic	REM Class Year
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46 Utilization of Small Scale Geothermal Resources using Binary Cycle 2009/20			
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רטייכו רומות ווו ייכוו וזומווט, וווטטווכזומ		Power Plant in Weh Island, Indonesia	



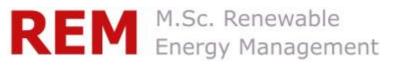
Nr.	Thesis Topic	REM Class Year
47	Performance analysis and optimization of latent heat thermal energy storage system in the State + District court in Düsseldorf	2009/2010
48	Evaluation of Silicon Wafer Cleaning Methods in Preparation for Nitride Passivation in Solar Cell Production Technology	2009/2010
49	Future Local Energy Management Solutions for Households and Small Enterprises	2009/2010
50	Increasing PV Self Consumption Via Intelligent Load Management: A Techno-Economic Analysis For The Domestic Sector	2009/2010
51	Economic Analysis of National and State level supportive schemes for electricity generation from solar photovoltaic (PV) In India	2009/2010
52	Techno-economic optimization of Hybrid Photovoltaic Systems in rural areas of Malaysia	2009/2010
53	Introduction of Renewable Energy Resources in the community of Service, Greece. Leading communities towards sustainability. Technical and social aspects	2009/2010
54	Regional Strategies for Climate Change Mitigation and Energy Efficiency Enhancement: a Case of Iron and Steel Industry in China, India and Other Selected Countries	2009/2010
55	Uncertainty and Sensitivity Analysis for DecisionSupport in Building Design	2009/2010
56	Verbesserung der Spannungshaltung im Niederspannungsnetz durch Blindleistungseinspeisung	2009/2010
57	Analysis of Investment & Incentives into upgrades for Electricity Energy Grids: a comprehensive approach to European initiatives and specific National implementation cases for Germany & France	2009/2010
58	Economical analysis of high efficient crystalline-silicon photo-voltaic technologies based on Levelized Cost of Electricity (LCOE)	2009/2010
59	Experimental Investigation and design of a laboratory test reactor for the mobile pyrolysis of freshly harvested biomass	2009/2010
60	The participation of organizations in current renewable energy and energy efficiency policy in Taiwan and Germany: do regional organizations play a role?	2009/2010
61	The role of biotechnology in the biofuel industry	2009/2010
62	Material Evaluation of Quasi or Cast Mono: Through As-cut wafers to finished Solar cells	2010/2011
63	Drying Chili Pepper (Capsicum frutescens) using a solar dryer with biomass back-up heater	2010/2011
64	Multi Objective Optimization of System Design and Operation of CHP system at district level to improve overall efficiency and minimize environmental impact	2010/2011
66	The Role of Transnational Discourse Diffusion in the Dutch Energy Transition	2010/2011
67	Sustainable Urban Transport System for Bogota: Bus Rapid Transit and Light Rail Transit Systems	2010/2011



Nr.	Thesis Topic	REM Class Year
68	Influence of wood water content on the pyrolysis char of spruce wood chips	2010/2011
69	Development of testing procedures fort he lifetime prediction of batteries used in solar lanterns for off-grid lighting purposes	2010/2011
70	Development of Bacterial Cellulose as a Cation Specific Membrane in Microbial Fuel Cells	2010/2011
71	Risks and Opportunities of Investing in Renewable Energy Projects in Honduras	2010/2011
72	The fuelwood market of Serbia - A scenario analysis of sustainable development	2010/2011
73	The Regional Process of Energy Transition Towards Renewable Energy Based System: A Case Study of Marin County, California	2010/2011
74	Actor landscape analysis in the multimodal transportation concept of Berlin	2010/2011
75	Development and initial application of a concept for Global Energy Management Systems	2010/2011
76	Comparing the greenhouse gas emissions of one-way and returnable packaging options in the intra-European supply chain of a truck engine coupling. A case study at AB Volvo and Voith GmbH	2010/2011
77	Investments for Retrofits in German Residential Buildings: A Bottom- Up Approach	2010/2011
78	A pre-feasability study on wind energy for Tongatapu Island, Kingdom of Tonga	2010/2011
79	Modelling of the german transmission grid for electricity interexchange between regions	2010/2011
80	Renewable Energy on Paciifc Islands	2010/2011
81	Development of Market Deployment Strategies for Industrial Solar Process Heat Applications in India	2010/2011
82	Energy Management Concept for Public Buildings – Subtitle: Case Study for the Community Of Gröbenzell	2010/2011
83	Techno-Economic Analysis of Battery-Less hybrid PV-Diesel systems for isolated mini-grids in the context of Latin American countries	2010/2011
84	Characterization of the rear contact separation of n-type metal wrap through (MWT) solar cells	2010/2011
85	Analysis of Chilean grid code requirements to assess the choice of a RE Technology	2010/2011
86	Experimental Investigation and energetic evaluation of the heat transfer fluids water and phase change slurry (PCS) in a storage system	2010/2011
87	Distributed PV & Storage Systems for Demand Side Management: Algorithms to Analyze Domestic benefit and Reduce Network Impact	2010/2011
88	Methodology, Implementation and Validation of a Variable Scale Simulation Model for Windpower based on the Georeferenced Installation Register of Germany	2011/2012



Nr.	Thesis Topic	REM Class Year
89	Impact of the EU Ecodesign directive on energy efficiency innovation: A patent based approach	2011/2012
90	Analysis of the Availability and Scaling Effects of Production Materials on the Production Costs of mc-Si PERC based PV Modules	2011/2012
91	Photovoltaic Lead-Acid Storage Optimization in Context of an Ugandan Hospital Application	2011/2012
92	Assessing the Policy Pathways Options for a Harmonisation of Renewable Electricity Support Schemes in the European Union for the period post 2020 – A Multi Criteria Decision Analysis	2011/2012
93	Characterization of corrosion protective coating of bipolar plates of PEM-electrolyser	2011/2012
94	Interconnection of busbar-free c-Si solar cells using conductive adhesives	2011/2012
95	A Study On Energy Intermittency Radiation Strategies with Emphasis On Weather Pattern Prediction	2011/2012
96	Assessment Of Building Integrated Solar Thermal Components Including Photovoltaics	2011/2012
97	Energy Security in South Korea and Japan	2011/2012
98	Production Technology and Cost Analysis of PEM Fuel Cells	2011/2012
99	Model-Based Analysis of the Long-Term Development of the Turkish Electricity Market	2011/2012
100	Operation Optimization of Decentralized Grid-Connected PV-Battery Systems for a Maximum Economic Benefit and a Minimum Grid Impact	2011/2012
101	Concepts for Utility Scale PV Power Plants with High DC Voltage Levels	2011/2012
102	Historical Analysis of U.S. Renewable Energy Policy: Economic efficiency of state policy and recommendations for the future	2011/2012
103	Development of a simulation model for energy demand profiles of groups of buildings to improve efficiency in energy supply	2011/2012
104	Optimization of the internal combustion engine to the operation as wood gas combined heat and power plant	2011/2012
105	A Stochastic Approach for Assessing the Feasibility of Hybrid Mini-grids for Off-Grid Communities from a Financial Perspective	2011/2012
106	The German grid development plan (Netzent-wicklungsplan) - participation and acceptance	2011/2012
107	Comparison and Characterization of a Light Emitting Diode (LED) based Solar Simulator to a Conventional Xenon based Solar Simulator for electrical testing of Photovoltaic Solar Cells	2011/2012
108	European Electricity Market Coupling	2011/2012
109	PROPOSING A BUSINESS MODEL FOR SOLAR-THERMAL APPLICATION IN INDUSTRIAL PROCESS HEAT" - A study based on the experiences of the supply chain of the concentrated solar thermal industry in India	2011/2012
110	Marketing Strategies of Energy Cooperatives	2011/2012
111	Technical and Financial Feasibility of Wind Power-to-Gas Systems: A Case Study of the Talara Wind Farm, Peru	2011/2012



Nr.	Thesis Topic	REM Class Year
112	Improving long term stability and performance of Organic solar cells by using different architectures	2011/2012
113	Novel technology for front-side metalization of solar cells using particle-free metal-organi ink	2011/2012
114	Assessing the impact of agri-environmental measures on groundwater nitrate concentration, in the state of Baden Wurttemberg using a geo- statistical approach	2011/2012
115	Analysis and Assessment of Lead Supplier Potential for Electric Vehicle Lithium-Ion Batteries: A Study on Select Countries	2011/2012
116	From Marginal terrains to Renewable Energy plants – Bulgarian survey	2011/2012
117	Development of a Monitoring Mechanism for Industrial Solar Process Heat Applications in India	2012/2013
118	Roadmap to the development of a sustainable speciality fuel consisting of liquefied biomethane blends for long haul heavy duty trucks in strategic European economies and GHG reduction impacts related to the sourcing	2012/2013
119	Angle of Incidence Effects on Photovoltaic Modules – Validation of IEC 61853-2 Drafted Standard	2012/2013
120	Development of Solderable Rear Contact for PERC Cells with PVD Aluminum or Aluminum Foil Metallization by using the LIFT technique	2012/2013
121	Citizen Financial Participation Models for Renewable Energy Projects in Germany: Compartive case studies on the realization of three models.	2012/2013
122	10-min. based determination of atmospheric Stability using lidar measurement data	2012/2013
123	Indicator based assessment of the German energy transition	2012/2013
124	Assessment of Promising Solar-Powered Applications and their Implementation Potential in the Moroccan Market	2012/2013
125	Optimization of a Plasma Texturing Process for Crystalline Silicon Thin- Film Solar Cells	2012/2013
126	Luminiscence Imaging and Lock-In Thermography for Local Device Fault Analysis of Interdigitated Back-contact silicon Solar Cells	2012/2013
127	An Evaluation of Current Economic Instruments for CO2 Abatment	2012/2013
128	The Transformation of the German Electritcy System - An In-Depth Analysis of Transformation Governance in the field of German Network Expansion	2012/2013
129	Development of a technical and pre-feasibility analysis simulation tool for solar fuel saving technologies and assessing consumption load profiles	2012/2013
130	A Probabilistic Approach to Incorporating Generation and Load Variations Into Grid Planning and Operation	2012/2013
131	Adsorption Chiller Evaporator and Condenser Performance as a Function of Surface Characteristics	2012/2013
132	Gas Absorption Heat Pump Field Assessment Method Development and Implementation	2012/2013



Nr.	Thesis Topic	REM Class Year
133	Success Factors and Obstacles in Emerging Regional Transitions to Renewable Energy Self-Sufficiency	2012/2013
134	Potential for solar thermal heat in the heap bioleaching of chalcopyrite in Chilean copper mining	2012/2013
135	Performance analysis and valuation of solar thermal systems in a district heating network b dynamic system simulation	2012/2013
136	Life Cycle Analysis of a multi-functional solar thermal façade and a reference model	2012/2013
137	User Engagement in a smart energy city project IURBAN	2012/2013
138	Towards an intelligent operation of energy in data centers based on operational data, energy efficiency and renewable energies integration	2012/2013
139	Integration of Photovoltaic Energy into Trinidad and Tobago's Electrical Grid: Analyses of Adaptive Strategies for Increasing Grid Stability	2012/2013
140	Investigating areas of application of integrated energy and ICT planning driven by smart grid requirements	2012/2013
141	Investigating the loss reaction in Photochromic devices	2013/2014
142	Modelling building-integrated solar systems in multiple simulation environments	2013/2014
143	Three-dimensional optical multi-scale modelling of silicon hetero- junction solar cells	2013/2014
144	Integration of PV Storage Systems into a Virtual Power Plant for Primary Reserve Power Provision- Optimization Strategies	2013/2014
145	Characterization of Pulsed Laser Annealing on Implanted Dopant for Silicon Solar Celss	2013/2014
146	Analysis and process optimization of a passivated contact for p-type Si solar cells	2013/2014
147	Quantitative evaluation of determinants driving investments in PV and WIND power sector withing EU member states. A case study on selected countries	2013/2014
148	Process Development of Liquid-Silicon Recharging for Silicon Ingot Growth by Directional Solidification	2013/2014
149	Wireless Communication for Inductive Power Transmission Systems	2013/2014
150	Optimierter Betrieb von Power-2-Gas Anlagen am deutschen Strommark	2013/2014
151	Analysis of the Potential Value Added via the Manufacturing of Solar Energy and Grid Technology Components in Saudi Arabia	2013/2014
152	Development of graphite layer as the p-type counter electrode for perovskite solar cells	2013/2014
153	Cost Analysis and Life Cycle Assessment of Organic Solar Cells	2013/2014
154	Spatially Resolved Analysis of a Segmented Proton Exchange Membrane Fuel Cell Design for Mobile Application using Printed Circuit Board Approach	2013/2014
155	Design of a biogas plant in Landhi town, Karachi, Pakistan. Analysis of Energy Supply and Potential of Improvement	2013/2014
156	Comparing the economics of different rMSW treatment technology	2013/2014



	against their contribution to legal targets	
157	Are local governments prepared to operate Smart Energy Cities? An	2013/2014
	empirical analysis of competencies in Bulgaria, Croatia, Germany,	
	Spain and the UK	
158	Analysis of Performance Reduction due to Soiling on Concentrating	2013/2014
	Solar Power	
159	Assessment of the economic potential of technology in early stage	2013/2014
	development	
160	Deposition of thin films with cost-efficient spray pyrolysis method for	2013/2014
	solar cell application	
161	Magnetocaloric Generator	2014/2015
162	Development of an indicator set to monitor the Member State's	2014/2015
	performance towards achieving the Energy Union objectives	
163	GIS based potential analysis for photovoltaic and wind power	2014/2015
	generation in the Gobi Desert and surrounding area	
164	Diffusion von Plug-In-Photovoltaik in Deutsch-land: eine technische,	2014/2015
	ökonomische und soziale Analyse	
165	Analysis of light and temperature induced degradation in	2014/2015
1.5.5	multicrystalline silicon	2014/2015
166	Cycling as a way to combat transport poverty: a case study	2014/2015
167	Techno-Economic Feasibility Analysis for the setup of Local PV	2014/2015
160	Manufacturing Capacity in India	2014/2015
168	Stress Analysis of a Quartz Window Operating at High Temperature and Under Vacuum in a Solar Reactor	2014/2015
169	Quantitative System Analysis of The Sustaianble Development Goals	2014/2015
109	with a focus on Sub-Saharan Africa"	2014/2013
170	Technological analysis of nearly zero energy buildings in tropical region	2014/2015
1/0	(focus on Thailand)	2011/2013
171	Potentials and costs to mitigate CO2 emissions for European refineries	2014/2015
172	Finanzierungsmöglichkeiten für Elektrizitätsinter-konnektoren am	2014/2015
	Beispiel von Deutschland und dem Vereinigten Königreich	
173	Ex-ante assessment and further development of EU wide policy	2014/2015
	instruments for the 2030 renewable energy target	-
174	Fabrication of micro porous layers and analyis of their relevance for	2014/2015
	loss mechanisms in a proton exchange membrane fuel cell	
175	Investigation of novel POCI3 diffusion processes	2014/2015
176	Energy efficiency in italian industry - The case study of a chemical	2014/2015
	plant: interventions and T.E.E. policy effect	
177	Automated data Evaluation and Performance Modelling of Bifacial	2014/2015
	Solar Modules	
178	Lock-in Thermography characterization of in-situ Perosvkite Solar Cells	2014/2015
179	Monitoring of Phase Change Material Chilled Ceiling and Evaluation of	2014/2015
	Cooling Strategies in LVM	
180	Techno-economic evaluation of decentralized energy system expansion	2014/2015
	using an optimization mode	



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