Publications:

Inhomogeneous Markov Models for Describing Driving Patterns
Publication: Research - peer-review › Journal article – Annual report year: 2017

An Efficient Robust Solution to the Two-Stage Stochastic Unit Commitment Problem
Publication: Research - peer-review › Journal article – Annual report year: 2017

Biomass Supply Planning for Combined Heat and Power Plants using Stochastic Programming
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Leveraging stochastic differential equations for probabilistic forecasting of wind power using a dynamic power curve
Publication: Research - peer-review › Journal article – Annual report year: 2017

Stochastic Programming for Fuel Supply Planning of Combined Heat and Power Plants
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

A Data-Driven Bidding Model for a Cluster of Price-Responsive Consumers of Electricity
Publication: Research - peer-review › Journal article – Annual report year: 2016

Publication: Research - peer-review › Report – Annual report year: 2016

Capacity expansion of stochastic power generation under two-stage electricity markets
Publication: Research - peer-review › Journal article – Annual report year: 2016

Commitment and dispatch of heat and power units via affinely adjustable robust optimization
Publication: Research - peer-review › Journal article – Annual report year: 2016

Economic valuation of heat pumps and electric boilers in the Danish energy system
Publication: Research - peer-review › Journal article – Annual report year: 2015

Impact of Inter- and Intra-Regional Coordination in Markets With a Large Renewable Component
Publication: Research - peer-review › Journal article – Annual report year: 2016

Integration of large-scale heat pumps in the district heating systems of Greater Copenhagen
Publication: Research - peer-review › Journal article – Annual report year: 2016

Probabilistic Approaches to Energy Systems
Publication: Research › Ph.D. thesis – Annual report year: 2016

Real-Time Procurement Strategies of a Proactive Distribution Company with Aggregator-Based Demand Response
Publication: Research - peer-review › Journal article – Annual report year: 2016

Real-time Trading Strategies for Proactive Distribution Company with Distributed Generation and Demand Response. 
Publication: Research › Ph.D. thesis – Annual report year: 2016
Short-term Probabilistic Forecasting of Wind Speed Using Stochastic Differential Equations
Publication: Research - peer-review › Journal article – Annual report year: 2015

Stochastic Integrated Market for Electric Power and Natural Gas Systems
Publication: Research › Poster – Annual report year: 2016

Decision Support Tools for Electricity Retailers, Wind Power and CHP Plants Using Probabilistic Forecasts
Publication: Research - peer-review › Journal article – Annual report year: 2016

Dynamic multi-stage dispatch of isolated wind–diesel power systems
Publication: Research - peer-review › Journal article – Annual report year: 2015

Impact of forecast errors on expansion planning of power systems with a renewables target
Publication: Research - peer-review › Journal article – Annual report year: 2015

Intraday Trading of Wind Energy
Publication: Research - peer-review › Journal article – Annual report year: 2015

Operational Strategies for a Portfolio of Wind Farms and CHP Plants in a Two-Price Balancing Market
Publication: Research - peer-review › Journal article – Annual report year: 2015

Stochastic Unit Commitment via Progressive Hedging - Extensive Analysis of Solution Methods
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Determining reserve requirements in DK1 area of Nord Pool using a probabilistic approach
Publication: Research - peer-review › Conference article – Annual report year: 2014

Electricity market clearing with improved dispatch of stochastic production
Publication: Research - peer-review › Journal article – Annual report year: 2014

Integrating Renewables in Electricity Markets: Operational Problems
Publication: Research - peer-review › Book – Annual report year: 2014

Optimal charging of an electric vehicle using a Markov decision process
Publication: Research - peer-review › Journal article – Annual report year: 2014

Probabilistic Forecasts of Solar Irradiance by Stochastic Differential Equations
Publication: Research - peer-review › Journal article – Annual report year: 2013

Redefining the merit order of stochastic generation in forward markets.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Robust Management of Combined Heat and Power Systems via Linear Decision Rules
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Wind economics
Publication: Research - peer-review › Book chapter – Annual report year: 2014

Wind resource assessment and wind power forecasting
Publication: Research - peer-review › Book chapter – Annual report year: 2014
A bilevel model for electricity retailers' participation in a demand response market environment
Publication: Research - peer-review › Journal article – Annual report year: 2013

Inhomogeneous Markov Models for Describing Driving Patterns
Publication: Research › Report – Annual report year: 2013

Offering model for a virtual power plant based on stochastic programming
Publication: Research - peer-review › Journal article – Annual report year: 2013

Optimization Under Uncertainty for Management of Renewables in Electricity Markets
Publication: Research › Ph.D. thesis – Annual report year: 2013

Pool Strategy of a Price-Maker Wind Power Producer
Publication: Research - peer-review › Journal article – Annual report year: 2013

A Transmission-Cost-Based Model to Estimate the Amount of Market-Integrable Wind Resources
Publication: Research - peer-review › Journal article – Annual report year: 2012

Modeling Demand Response in Electricity Retail Markets as a Stackelberg Game
Publication: Research - peer-review › Paper – Annual report year: 2012

Pricing Electricity in Pools With Wind Producers
Publication: Research - peer-review › Journal article – Annual report year: 2012

Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Projects:

Smart Energy Systems and Sustainable Urban Development
Project: PhD

Market Mechanisms for the integration of Distributed Energy Resources
Project: PhD

Decision-making for the Management and Planning of Integrated Energy Systems
Project: PhD

Market Mechanisms for Integrated Energy Systems
Project

Market Mechanisms for Integrated Energy Systems
Project: PhD

System-wide socio-economic and reliability impact of active management of distribution grids and distributed energy resources
Project: PhD

Modelling Of Market-Based Cross-Border Exchange Of Balancing Power
Project: PhD
Stochastic energy systems  
Project: PhD

Economic MPC for Large and Distributed Energy Systems  
Project: PhD

Multivariate Probabilistic Forecasting for Energy Systems  
Project: PhD

Impact of Stochastic Generation on Electricity Market Dynamics  
Project: PhD

Activities:

**SMATAD 2017**  
Activity: Attending an event › Participating in or organising a conference

**INFORMS Annual Meeting**  
Activity: Talks and presentations › Conference presentations

**Optimization challenges in the evolution of energy networks to smart cities.**  
Activity: Talks and presentations › Conference presentations

**A Data-driven Bidding Model for a Cluster of Price-responsive Consumers of Electricity**  
Activity: Talks and presentations › Conference presentations

**Nordic Environmental Social Science Conference**  
Activity: Talks and presentations › Conference presentations

**Statistical modelling for energy system planning**  
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.