CV Viktoria Martin

Name: Viktoria Martin
Date of Birth: 1968
Present Employment: Professor, Dept. of Energy Technology, KTH (2015-present)
First Academic Degree: MSc Chemical Engineering (Civilingenjör Kemiteknik), KTH, 1993.
PhD: Dept. of Mechanical Engineering, University of Florida, 1998.
Docent: Energy Technology, 2010

Research Interests: renewable energy implementation and related technologies like thermal energy storage, heat driven heat pumping technology, district heating and cooling, cogeneration/polygeneration, techno-economic systems modelling and optimization to aid planning and policy development.

Leadership (last 10 years):
Head of division of Energy Systems. KTH Energy Technology (since October 2019)
Director of Internationalisation, KTH School of Industrial Engineering and Management (2019-2021)
Secretary of the Executive Committee, *International Solar Energy Society*, January 2020-Dec 2021
Board of Directors, International Solar Energy Society, January 2018 – ongoing.
Programme Director, MSc Sustainable Energy Engineering at KTH, June 2017 – June 2019.
Director of Undergraduate and Master Studies, KTH-Energy Technology, January 2016 – September 2019.
MSc School Coordinator, EIT's KIC InnoEnergy (2012 through March 2014), coordinating 7 consortium-based MSc programmes while developing them to EIT label standard.
Programme Director KIC IE/Erasmus Mundus MSc SELECT (2009-2012); and Erasmus Mundus *Joint Doctoral Programme SELECT+* (2011-2012).
EU SET Plan on Training and Education, working group leader – Energy Storage working group, 2012-2013.

Research Grants (past 5 years)
EPIC Africa (partner), Horizon, European Commission, 485000 €, 2022-2026
Work Package 3 contribution in the Nordic Energy Systems Research Programme (NEO), the Swedish Energy Agency, 0.5 MSEK 2022-2023.
Compact Minichannel Latent Energy Storage with Air for Cooling Applications, the Swedish Energy Agency, 3.7 MSEK, 2019-2021.
Thermal Energy Storage – a solutions for a flexible energy system, the Swedish Energy Agency, managed by Energiforsk, KTH/VM Project Manager of *WP2.3 Distributed cold storage*,3.5 MSEK, April 2018 through Jan 2021.
Neutrons for Heat Storage, Nordforsk – the Nordic Neutron Science Programme, coordinated by DTU, through 2019.
Heat transfer mechanisms during phase change as applied to PCM-based heat storage, the Swedish Energy Agency, 5 MSEK, June 2014 through May 2018.

List of Publications (Peer Reviewed, Journal Publications – 5 latest publications, only)

For more details on publications, please refer to:
http://scholar.google.se/citations?user=2QKo9L8AAAAJ&hl=en

Martin, V., and Chiu, J NW, 2022, "Industrial Applications of Thermal Energy Storage Systems", Advances in Energy Storage: Latest Developments from R&D to Market, Hauer, A., editor, Wiley, https://doi.org/10.1002/9781119239390.ch32

Ntostoglou, E.; Khatiwada, D.; **Martin**, V. 2021, "The Potential Contribution of Decentralized Anaerobic Digestion towards Urban Biowaste Recovery Systems: A Scoping Review", Sustainability, https://doi.org/10.3390/su132313435

Gunasekar, S N, Bilek, Z., Eden, T., and **Martin**, V., 2021"Distributed cold storage in district cooling—Grid dynamics and optimal integration for a Swedish case study", Energy Reports, vol 7, pp 419-429, https://doi.org/10.1016/j.egyr.2021.08.086

A Abdi, M Shahrooz, J NW Chiu, **V Martin**, 2021, "Experimental investigation of solidification and melting in a vertically finned cavity", Applied Thermal Engineering, https://doi.org/10.1016/j.applthermaleng.2021.117459

M Wegener, J V Schneider, A Malmquist, A Isalgue, A Martin, **V Martin**, 2021, "Techno-economic optimization model for polygeneration hybrid energy storage systems using biogas and batteries", Energy, vol 218, pages 119544.