

Pavani Ponnaganti
Adjunkt
AAU Energi
Det Ingeniør- og Naturvidenskabelige Fakultet
Electric Power Systems and Microgrids
Intelligent Energy Systems and Flexible Markets
Wind Power Systems
Postadresse:
Pontoppidanstræde 111
1-140
9220
Aalborg Ø
Danmark
E-mail: pap@energy.aau.dk



Publikationer

Testing Requirements and Control Strategies of Next-Generation Grid Emulator: A Review

Li, Z., Ponnaganti, P., Zhao, F., Wang, X., Bak-Jensen, B., Munk-Nielsen, S. & Blaabjerg, F., maj 2022, *Proceedings of the 2022 International Power Electronics Conference (IPEC-Himeji 2022- ECCE Asia)*. Himeji, Japan: IEEE Press, s. 1560-1566 7 s. 9807056

Intelligent operation of thermal storage systems based heat pump pool for cost efficiency

Ponnaganti, P., Pillai, J. R., Bak-Jensen, B. & Vogler-Finck, P., 2022, *Proceedings of IEEE T&D 2022- IEEE PES Transmission & Distribution Conference & Exposition*. IEEE, s. 1-5 5 s.

Assessment of Energy Arbitrage Using Energy Storage Systems: A Wind Park's Perspective

Ponnaganti, P., Bak-Jensen, B., Wæhrens, B. V. & Asmussen, J., 4 aug. 2021, I: *Energies*. 14, 16, s. 1-20 20 s., 4718.

Optimising Energy Flexibility of Boats in PV-BESS Based Marina Energy Systems

Jozwiak, D., Pillai, J. R., Ponnaganti, P., Bak-Jensen, B. & Jantzen, J., 9 jun. 2021, I: *Energies*. 14, 12, 24 s., 3397.

Smart Island Energy Systems: Case Study of Ballen Marina on Samsø

Jozwiak, D., Pillai, J. R., Ponnaganti, P., Bak-Jensen, B. & Jantzen, J., 2021, *Proceedings of SEST 2021: 4th International Conference on Smart Energy Systems and Technologies*. IEEE, s. 1-6 6 s.

Battery Energy Storage System based Voltage and Frequency Control of An Island Distribution Network

Ponnaganti, P., Bak-Jensen, B. & Pillai, J. R., 2020, *CIGRE 2020: 2020 e-session Papers and Proceedings*. Paris

Maximizing the self-consumption of Solar-PV using Battery Energy Storage System in Samsø-Marina

Ponnaganti, P., Bak-Jensen, B. & Pillai, J. R., sep. 2019, *Proceedings of 2019 IEEE PES Innovative Smart Grid Technologies Europe, ISGT-Europe 2019*. IEEE Press, 5 s. 8905498. (IEEE Power & Energy Society Innovative Smart Grid Technologies Conference (ISGT)).

Opportunities and challenges of demand response in active distribution networks

Ponnaganti, P., Pillai, J. R. & Bak-Jensen, B., jan. 2018, I: *Wiley Interdisciplinary Reviews: Energy and Environment*. 7, 1, 16 s., e271.

Impact of Demand Side Management in Active Distribution Networks

Ponnaganti, P., Bak-Jensen, B. & Pillai, J. R., jul. 2017, *Proceedings of 2017 IEEE Power & Energy Society General Meeting*. IEEE Press, 5 s. (IEEE Power and Energy Society General Meeting).

Economic aspects of distributed generation

Pavani, P. & Singh, S. N., 1 jan. 2017, *Handbook of Distributed Generation: Electric Power Technologies, Economics and Environmental Impacts*. Springer Publishing Company, s. 631-748 118 s.

Support vector machine based transient stability identification in distribution system with distributed generation
Pavani, P. & Singh, S. N., 2 jan. 2016, I: Electric Power Components and Systems. 44, 1, s. 60-71 12 s.

Placement of DG for reliability improvement and loss minimization with reconfiguration of radial distribution systems
Pavani, P. & Singh, S. N., 2014, I: International Journal of Energy Sector Management. 8, 3, s. 312-329 18 s.

Reconfiguration of radial distribution networks with distributed generation for reliability improvement and loss minimization
Pavani, P. & Singh, S. N., 2013, *2013 IEEE Power and Energy Society General Meeting, PES 2013*. 6672876. (IEEE Power and Energy Society General Meeting).

Aktiviteter

IEEE (Ekstern organisation)
Pavani Ponnaganti (Medlem)
31 dec. 2023

Girls' Day in Science AAU 2022

Ann-Louise Andersen (Arrangør), Katrine Vogt Møller (Arrangør), Rie Hasic Hegelund (Arrangør), Maria Støttrup Schiønning Larsen (Deltager), Alessia Napoleone (Deltager), Linea Vibe Fuglsig (Deltager), Evamaria Petersen (Deltager), Kamilla Heimar Andersen (Deltager), Nadiyah de Jonge (Deltager), Cejna Anna Quist-Jensen (Deltager), Elsebeth Juhl Pedersen (Deltager), Pavani Ponnaganti (Deltager), Jeanette Lykkemark (Deltager), Anne Marie Svane (Deltager), Helena Amalie Haxvig (Deltager), Sofie Otto (Deltager), Alisa Ananjeva (Deltager), Melisa Maria Lopez Lechuga (Deltager), Camilla Heisel Nyholm Thomsen (Deltager) & Ásgerdur Arna Pálsdóttir (Deltager)
5 okt. 2022

Presse/medie

Ekspærimet på Citronvej skal give mindre varmeregning

Birgitte Bak-Jensen, Jayakrishnan Radhakrishna Pillai, Carsten Bojesen, Pavani Ponnaganti & Birgitte Kudal Guldbæk
21/10/2020
1 element af Mediedækning

Projekter

Livø - Further Implementation of Energy Supply Solutions

Bak-Jensen, B., Guldbæk, B. K., Ponnaganti, P. & Sorknæs, P.
Energinet SOV
01/01/2016 → 01/10/2019

MERGE: Megawatt Scalable Versatile Grid Emulation System

Wang, X., Bak-Jensen, B., Blaabjerg, F., Munk-Nielsen, S., Zhao, F., Taul, M. G., Ponnaganti, P. & Steffensen, B.
EUDP
01/08/2020 → 31/07/2023

SMARTCE2H: Smart citizen-centered local electricity to heat systems (SMARTCE2H)

Bak-Jensen, B., Pillai, J. R., Bojesen, C., Ponnaganti, P. & Guldbæk, B. K.
EUDP
01/03/2019 → 28/02/2022

SMILE: SMILE (Smart Island Energy systems)

Bak-Jensen, B., Iov, F., Pillai, J. R., Østergaard, P. A., Marcinkowski, H. M. & Ponnaganti, P.
EU - Horizon 2020
01/05/2017 → 31/10/2021

SUSTENANCE: Sustainable Energy System for Achieving Novel Carbon Neutral Energy Communities

Bak-Jensen, B., Pillai, J. R., Ponnaganti, P., Sinha, R., Quinteros, K. B. & Guldbæk, B. K.

European Commission

01/07/2021 → 31/12/2024

SERENE: Sustainable and Integrated Energy Systems in Local Communities

Bak-Jensen, B., Pillai, J. R., Ponnaganti, P., Sinha, R., Bojesen, C., Quinteros, K. B. & Guldbæk, B. K.

European Commission

01/05/2021 → 30/04/2025