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## Forskningsprofil

Saeed Peyghami received the B.Sc., M.Sc. and Ph.D. all in electrical power engineering from Sharif University of Technology, Tehran, Iran in 2011, 2013 and 2017 respectively. From 2017 to 2021, he was a Postdoctoral researcher at Aalborg University, where he is currently an Associate Professor. His research interest includes reliability and risk assessment in modern power systems, control and stability of power electronics based power systems, and Quantum computing applications in power systems.

## Kvalifikationer

Electrical Engineering, PhD, Sharif University of Technology  
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## Ansættelse

## Publikationer

### **A Temperature-Aware Operating Model of EV Battery for Resilient Residential Microgrids in Frigid Weather**

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### **On Secondary Control Approaches for Voltage Regulation in DC Microgrids**

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## **Bevillinger**

### **FleetWise:: FleetWise: Cost-Effective Maintenance for Wind and PV Power**

Peyghami, S. (PI (principal investigator)), Hosseini, S. A. (Col (co-investigator)), Tahir, M. U. (Col (co-investigator)) & Brohus, K. L. (PI (principal investigator))

Aalborg University: 75,11 kr.

01/03/2026 → 31/12/2026

## **Projekter**

### **Electromagnetic Interference Analysis and Mitigation of Highly Integrated Power Electronics in Motor Drives**

Babu, P. (PI (principal investigator)), Davari, P. (Supervisor), Blaabjerg, F. (Supervisor) & Peyghami, S. (Supervisor)

01/10/2023 → 30/09/2026

### **FleetWise:: FleetWise: Cost-Effective Maintenance for Wind and PV Power**

Peyghami, S. (PI (principal investigator)), Hosseini, S. A. (Col (co-investigator)) & Tahir, M. U. (Col (co-investigator))

Aalborg University

01/03/2026 → 31/12/2026

### **FLEXIGRID: Flexible Future Power Electronics Dominated 100% Renewable Grids**

Blaabjerg, F. (PI (principal investigator)), Peyghami, S. (Col (co-investigator)), Hosseini, S. A. (Col (co-investigator)) & Wu, J. (Projektdeltager)

Clean Energy Transition Partnership

01/10/2025 → 30/09/2028

### **Integrated Design for Reliability of Motor Drives in High-Power High-Speed Machines**

Ahooye Atashin, S. (PI (principal investigator)), Blaabjerg, F. (Supervisor), Peyghami, S. (Supervisor) & Davari, P. (Supervisor)

01/01/2024 → 31/12/2026

### **Integrated Design of Microgrids Considering Reliability and Stability**

Azizi, A. (PI (principal investigator)), Blaabjerg, F. (Supervisor) & Peyghami, S. (Supervisor)  
01/11/2021 → 31/10/2024

### **HIPO: Integrated High-speed Power Systems for Industry and Mobile Applications**

Davari, P. (PI (principal investigator)), Peyghami, S. (Projektdeltager), Blaabjerg, F. (Projektleder) & Frøstrup, S. (Projektkoordinator)  
European Commission  
01/09/2022 → 31/08/2026

### **HydroHeat: Intelligent Hydrogen Software for High-Efficiency Renewable Heat Integration**

Golmohamadi, H. (PI (principal investigator)), Peyghami, S. (CoPI) & Golestan, S. (Projektdeltager)  
01/01/2026 → 31/08/2026

### **Optimal Allocation of Hybrid Energy Storage Systems for Stackable Applications in Distribution Grid**

Zhang, Y. (PI (principal investigator)), Blaabjerg, F. (Supervisor), Peyghami, S. (Supervisor), Dragicevic, T. (Supervisor) & Anvari-Moghaddam, A. (Supervisor)  
01/05/2021 → 30/04/2024

### **Pro-Risk: Pro-Risk: mathematical methods for Probabilistic Risk modeling of green electric power systems**

Peyghami, S. (PI (principal investigator)), Hosseini, S. A. (Projektdeltager) & Frøstrup, S. (Projektkoordinator)  
Danmarks Frie Forskningsfond  
01/04/2023 → 30/09/2026

### **RAWFaEL: Reliability Assessment of Wind Farm Electrical System**

Peyghami, S. (PI (principal investigator)), Hosseini, S. A. (Projektdeltager) & Frøstrup, S. (Projektkoordinator)  
01/06/2023 → 31/07/2024

### **RELIABILITY-ORIENTED DESIGN OF A MICROGRID SYSTEM**

Sandelic, M. (PI (principal investigator)), Blaabjerg, F. (Supervisor), Sangwongwanich, A. (Supervisor) & Peyghami, S. (Supervisor)  
01/10/2020 → 30/09/2023

### **RelyPES: RelyPES**

Peyghami, S. (PI (principal investigator)), Hosseini, S. A. (Col (co-investigator)) & Zäch, M. R. (Projektansøger)  
AAU Proof of Concept, Aalborg University  
15/04/2026 → 14/10/2026

### **RelyPES: RelyPES: A Reliability and Risk Assessment Software Tool for Power and Energy Systems**

Peyghami, S. (PI (principal investigator)) & Frøstrup, S. (Projektkoordinator)  
Innovationsfonden  
01/01/2023 → 31/03/2024

### **SOLARIS: SOLARIS**

Peyghami, S. (PI (principal investigator)), Davari, P. (Col (co-investigator)), Hosseini, S. A. (Projektdeltager), Tahir, M. U. (Projektdeltager) & Frøstrup, S. (Projektkoordinator)  
Horizon Europe  
01/07/2024 → 30/06/2028

### **System-Level Reliability Modelling and Evaluation in Power Electronic Based Generation Systems**

Davoodi, A. (PI (principal investigator)), Blaabjerg, F. (Supervisor), Yang, Y. (Supervisor) & Peyghami, S. (Supervisor)  
01/09/2019 → 31/08/2022