



STAATSMINISTERIUM
FÜR WISSENSCHAFT
KULTUR UND TOURISMUS



Freistaat
SACHSEN

Saksa Kevad 2023

Estonia and Saxony –
on the way forward to Clean Energy



1. About us



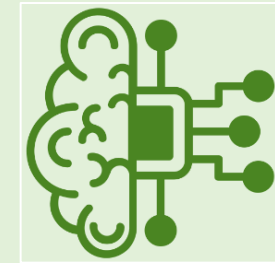
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Microgrids
Energy communities
Energy flexibility
AI in power systems
Lighting technologies

2. What we are looking for

- **Smart energy communities/microgrids – future of power system**
- Joint research in the domains of
 - ✓ Methods to improve **energy flexibility and power quality in energy positive districts/communities**
 - ✓ **AI based solution to improve planning of microgrids** with high share of renewables and quantification of energy flexibility on demand side
 - ✓ **Optimization the operation of microgrids** with integrated renewables, energy storages (ES), EVs, smart streetlighting solutions, e.g. optimization the use of municipal distribution network.
 - ✓ **Novel self-sustainable energy systems and business models for Green Energy Communities.** New business models for all parties (companies, energy communities, municipalities) connected through underlying infrastructure
 - ✓ **Interdisciplinary Micorgrids (Pilot) Projects:** „Renewable Energy, Energy Storages, Demand Side Flexibility, AI, Smart Grids and Microgrids, Street Lighting Networks and ...“

3. How to contact us



[https://taltech.ee/en/
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Using digital substations equipped with energy storage devices.