

Master Thesis: Investigation of flexible PV modules

The Helmholtz Institute Erlangen-Nuremberg for Renewable Energies (HI ERN), part of the Forschungszentrum Jülich, researches and develops material- and process-based solutions for climate-neutral, sustainable and cost-effective utilization of renewable energies.

Aim: To investigate flexible modules in terms of crack forming and MPP development due to deflection compared measurements with OPV samples

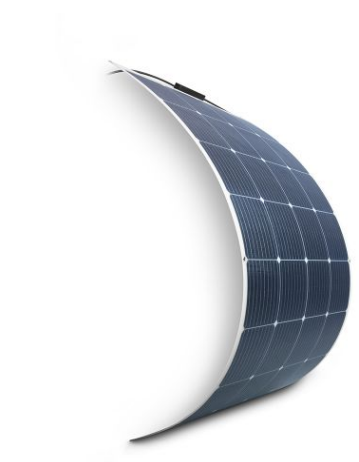
Project Steps:

1. Build up a test stand for bending tests on flexible modules
2. Perform bending tests on different modules
3. Electroluminescence (EL) and IV curve measurement
3. Analyze the appearance of cracks in correlation to PV module power.

Qualifications:

- Master student in energy technology, renewable energies, engineering
- Profound technical knowledge
- Experience in a programming language (Python) and data analysis is beneficial

Note: Students of MWT, NT, Energy Technology, Advanced Materials & Processes (MAP) can be directly examined. Students from other disciplines require an examiner from their department.



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