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WindPowerTogether

(HAW.International Kurzprogramm 2026)



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connects continents, universities and expertise to accelerate the future of sustainable wind energy

1. Project Background: Why Wind Energy Matters

Wind energy plays a key role in the global energy transition by reducing CO_2 emissions and providing secure, affordable and sustainable electricity. It can improve access to power in rural and remote regions, while strengthening energy independence. In this way, wind energy also supports the United Nations Sustainable Development Goal 7: **Affordable and Clean Energy**

2. Main Project Objectives

Despite the key role of wind energy for the energy transition, the technical conditions, regional infrastructure and public acceptance differ strongly between countries.

WindPowerTogether - an international cooperation project initiated by Esslingen University of Applied Sciences together with partner universities in Africa and Asia - addresses these challenges through **interdisciplinary collaboration of an academic network** for research, teaching and innovation in the field of wind energy by

- ✓ Building a long-term international university network
- ✓ Starting joint research activities in wind energy
- ✓ Strengthening international teaching formats and student exchange in wind energy related programs
- ✓ Creating practical solutions for regional wind energy systems including community acceptance
- ✓ Setting established academic and organizational grounds for future joint research activities



NUST Campus Lüderitz, concept study

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SARETEC Building at CPUT



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Prof. Gühring and Prof. Wu

3. Planned Activities (06-12/2026)

Work Package 1 – Network Building

- Kick-off meetings
- Strategic planning workshops
- Coordination structures

Work Package 2 – Research Cooperation

- Joint studies on wind turbine optimization
- AI-based monitoring concepts
- Site-specific technical analysis

Work Package 3 – Teaching & Exchange

- Virtual COIL teaching formats
- Staff mobility visits
- International student collaboration

Work Package 4 – Sustainability & Society

- Community Acceptance Index (CAI)
- Social impact assessment
- Sustainable implementation concepts

Work Package 5 – Long-Term Impact

- Preparation of joint funding proposals
- Integration into university structures
- Expansion of future partnerships

4. Partner Institutions and Project Team

- ***Esslingen University of Applied Sciences – Germany***
  Prof. Dr. Gabriele Gühring, Prof. Dr. Hermann Knaus, Prof. Dr. Hermann Lücken, Prof. Dr. Siegfried Zürn
- ***Cape Peninsula University of Technology – South Africa***
  Prof. Dr. Agnes Chigona, Prof. Dr. Suresh Ramasuroop
- ***National Kaohsiung University of Science and Technology – Taiwan***
  Prof. Dr. Prof. Chia-Chin Wu
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