

## SOUTHERN AFRICAN SUSTAINABLE ENERGY INITIATIVE

### PARTNERS



**NAMIBIA  
UNIVERSITY  
OF SCIENCE  
AND TECHNOLOGY**



**National University of  
Lesotho**



**UNIVERSITY  
BOTSWANA**



**h\_da**

HOCHSCHULE DARMSTADT  
UNIVERSITY OF APPLIED SCIENCES



Implemented by  
ACP Secretariat

FUNDED BY



**Lead Partner:** Namibia University of Science and Technology (NUST)

**Contract Number:** FED/2013/320-140

**EC Grant:** EUR 437 767.17

**Sector:** Energy Access and Efficiency

**Location:** Namibia; Lesotho; Botswana; Germany

**Duration (months):** 42

**Partner 1:** National University of Lesotho (NUL)

**Partner 2:** University of Botswana (UB)

**Partner 3:** Hochschule Darmstadt - University of Applied Sciences

### Project Objectives:

The overall objective of the project is to enhance the institutional, human and systems development capacity of the consortium of regional universities in the area of renewable energy and energy efficiency (sustainable energy).

### Specific objectives are:

- To provide a regional platform for knowledge sharing, and thereby integrate and co-ordinate regional initiatives in the field of sustainable energy;
- To support capacity development through joint curriculum/Cooperative development of graduate and undergraduate course modules and programmes focusing on sustainable energy systems;
- To provide an innovative services and products platform that will raise awareness and provide sound research support to a broad range of stakeholders in view of ensuring participation and ownership of interventions, and implementation.

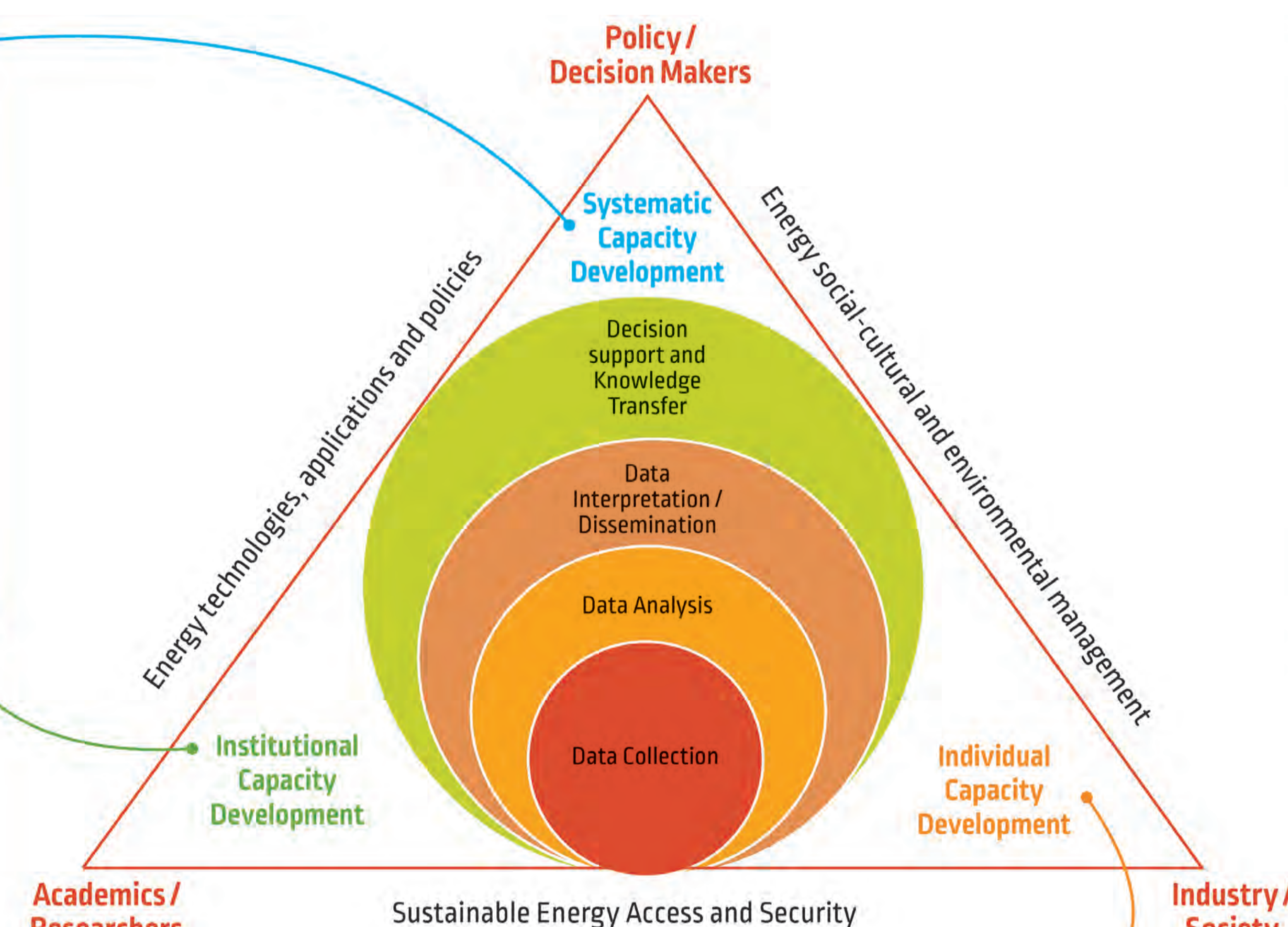
## RESULTS

### SYSTEMATIC CAPACITY DEVELOPMENT

Results Achieved:	Results not Achieved/Planned:
<ul style="list-style-type: none"> <li>• An International Renewable Energy Symposium was held in Namibia in October 2015.</li> <li>• A Southern Africa Sustainable Energy Network (SASEN) was established and launched in October 2015.</li> <li>• The Journal of Renewable Energy and Energy Efficiency of Southern Africa was developed</li> </ul>	<ul style="list-style-type: none"> <li>• Collaborative research – Applying for Intra-Africa Call – for post project sustainability of consortium activities.</li> <li>• Product awareness raising and distribution.</li> <li>• Development of country databases for the collection of country energy statistics based on real figures, so that each of the participating countries, and the SADC region, can be able to start reporting energy access indices annually.(Insufficient budget).</li> </ul>

### INSTITUTIONAL CAPACITY DEVELOPMENT

Results Achieved:	Results not Achieved/Planned:
<ul style="list-style-type: none"> <li>• Capacity developed amongst key 35 researchers and trainers in 4 sustainable energy courses as part of the Train the Trainer programme.</li> <li>• Training materials developed to be used by trainers to train more people.</li> <li>• Master in Sustainable Energy Systems (MSES) approved by NUST Senate</li> <li>• Course outline for the Bachelor of Engineering degree in Renewable Energy Engineering developed by UB</li> <li>• Short courses in Sustainable Energy Developed by NUL</li> </ul>	<ul style="list-style-type: none"> <li>• Development of detailed curricula and syllabi framework for approved programmes</li> <li>• Development of course and training material specific to target groups</li> <li>• Quality assurance process for the courses under development</li> </ul>



### INDIVIDUAL CAPACITY DEVELOPMENT

Results Achieved:	Results not Achieved/Planned:
<ul style="list-style-type: none"> <li>• Needs Assessment for capacity building in the energy sector of Botswana, Lesotho &amp; Namibia were conducted.</li> <li>• Capacity developed amongst key 35 researchers and trainers in 4 sustainable energy courses as part of the Train the Trainer programme.</li> <li>• 3 Published Scientific Articles/papers (as a direct result of the project activities)</li> </ul>	<ul style="list-style-type: none"> <li>• Development of course and training material specific to target groups</li> </ul>

### CONTRIBUTION TO THE OVERALL PROGRAMME OBJECTIVES

EDULINK II	SASEI
<ul style="list-style-type: none"> <li>• To foster capacity building and regional integration in the field of higher education through institutional networking.</li> <li>• To support a higher education system of quality, which is efficient and relevant to the needs of the labour market, and consistent with ACP socio-economic development priorities.</li> </ul>	<ul style="list-style-type: none"> <li>• The approved Masters programme in Sustainable Energy Systems at NUST, the BEng degree programme outline, as well as the short courses developed at UB and NUL respectively will go a long way in developing the much needed capacity in the energy field. The Programme Advisory Board will consist of local, regional and international experts and academics in the field, who will assure the quality of the proposed programmes.</li> </ul>

### OUTCOMES

OUTCOME 1: Regional Sustainable Energy Initiative (focal point) established	OUTCOME 2: Undergraduate programmes reviewed and joint post-graduate programme/s developed	OUTCOME 3: Enhanced sustainable teaching and research capacity in the region and Decision support tools
<ul style="list-style-type: none"> <li>• A Southern Africa Sustainable Energy Network (SASEN) was established. The key role of the network is to share information on energy matters as well as to provide a platform for development of the renewable energy sector in Southern Africa.</li> </ul>	<ul style="list-style-type: none"> <li>• The Master in Sustainable Energy Systems under development at NUST.</li> <li>• B.Eng in Renewable Energy and MSc in Renewable energy under development at the UB.</li> <li>• Short courses in Sustainable Energy to be offered by NUL.</li> </ul>	<ul style="list-style-type: none"> <li>• Train-the-Trainers courses completed and manuals developed.</li> </ul>

The SASEI project contributes to sustainable knowledge-based economies through the implementation of the developed academic programmes, research projects and ultimately services to society. The project interjects the important role that Higher Education Institutions play in this context as they are providing the applied skills required for industrialization within the energy sector.

