

# Project Brief

## AfricaEnergyParks

**PROJECT NAME:** Improving energy access and climate resilience in Africa’s fringe communities

**CALL:** HORIZON-CL5-2023-D3-02

**TIMELINE:** June 2024–June 2028

**BUDGET:** € 6 552 152, 50

**PROJECT COORDINATOR:** Aarhus University

**CONTACT PERSON:** coba@ece.au.dk

<b>OBJECTIVES</b>	<ul style="list-style-type: none"> <li>• Provide clean and reliable energy access in a rural off-grid community in Ghana</li> <li>• Promoting the productive use of energy</li> <li>• Use improved cookstoves</li> <li>• Building a system that can be scaled up to be commercially viable</li> </ul>
<b>TARGET AUDIENCE</b>	<ul style="list-style-type: none"> <li>• Fringe communities of the Mole National Park</li> <li>• Policymakers</li> <li>• Energy and environmental agencies</li> <li>• Industry in the energy and related sectors</li> <li>• Scientific communities in the energy and related sectors</li> <li>• Civil society groups</li> <li>• General Public</li> </ul>
<b>ACTIVITIES</b>	<ul style="list-style-type: none"> <li>• Implement solar photovoltaics (PV), battery energy storage systems (BESS), and biomass combined heat and power (BCHP) systems.</li> <li>• Monitor the health and environmental impacts of cookstoves in the community.</li> <li>• Create systems that allow the productive use of energy from waste generated by agriculture and food processing.</li> <li>• Apply life cycle approaches to evaluate the social, economic, and environmental impacts of the project’s interventions.</li> <li>• Provide training and capacity-building programs to local workers for the operation and maintenance of the energy systems.</li> <li>• Share lessons learned, research findings, and best practices with other projects.</li> </ul>
<b>WORK PACKAGES</b>	<p>WP1–Stakeholder engagement, social conditions and system planning</p> <p>WP2 – Data collection, analyses and system modelling</p> <p>WP3 – Design, construction and commissioning of Microgrid</p> <p>WP4 – Design, construction and integration of PUE components</p> <p>WP5 – Integration of Improved Cookstoves</p> <p>WP6 – Testing, validation and certification of Microgrid, PUE and ICS components</p> <p>WP7 – Sustainability Analysis</p> <p>WP8 – Dissemination, Exploitation and Communication (DEC)</p> <p>WP9 – Project Management and Coordination</p>
<b>EXPECTED OUTCOMES</b>	<ul style="list-style-type: none"> <li>• Technologically reliable and economically viable renewable energy solutions by 2030.</li> <li>• Improved climate adaptation and mitigation.</li> <li>• Strengthening EU-AU climate change and sustainable energy collaboration.</li> <li>• Positive environmental, health, climate, social, and economic impacts.</li> <li>• Acceleration of African countries' targets under the Paris Agreement.</li> </ul>
<b>PARTNERS</b>	            