

Title of case study	Renewable energy building resilience of island communities
Name of organization(s)	Ankur Scientific Technologies Pvt. Ltd.
Business sector	Science and Technology; Energy and Utilities
Region(s) relevant to case study	<input type="checkbox"/> All regions <input type="checkbox"/> Africa and the Arab States <input checked="" type="checkbox"/> Asia and the Pacific <input type="checkbox"/> Caribbean and Central America <input type="checkbox"/> Europe <input type="checkbox"/> Least Developed Countries <input type="checkbox"/> North America <input type="checkbox"/> Polar regions <input type="checkbox"/> Small Island Developing States <input type="checkbox"/> South America
Country(s) relevant to case study	India
Adaptation sector(s) relevant to case study	<input type="checkbox"/> Business <input type="checkbox"/> Education and training <input type="checkbox"/> Food security, agriculture, forestry and fisheries <input type="checkbox"/> Human health <input type="checkbox"/> Oceans and coastal areas <input type="checkbox"/> Science, assessment, monitoring and early warning <input type="checkbox"/> Terrestrial ecosystems <input type="checkbox"/> Tourism <input checked="" type="checkbox"/> Transport, infrastructure and human settlements <input type="checkbox"/> Water resources <input checked="" type="checkbox"/> Other: Renewable energy systems
Adaptation activity	<p>Ankur Scientific Energy Technologies Pvt. Ltd., founded in India in 1986, manufactures biomass gasifier systems for large and small businesses, communities, and individuals across Asia. Running on local biomass – either rice husks or wood – the gasifiers are cleaner and cheaper than using liquid fuels. The payback period for companies installing the gasifiers has been between five and twelve months.</p> <p>Among Ankur’s accomplishments is an installation that has provided electrification without interruption for 800 households on an island in India’s northern Sunderbans</p>

	<p>for over 11 years. With the success of this demonstration, policy-makers have now required the entire 10,000 km² of the Suderbans to be powered by biomass gasifiers and solar photovoltaic cells.</p> <p>By using local resources, these gasifiers free their owners from dependence on liquid fuels, which exhibit volatile prices – especially when fuel supplies are cut off or limited because of natural disasters.</p>
<p>Cost-benefit</p>	<p>For an area like the island in Suderbans, electricity from a mainland source is both expensive and at risk of being cut off during storms. Thus, local electrification makes the community more self-sufficient, supports local development by providing consistent electricity, and less vulnerable in the face of the storms that are likely to increase with climate change.</p>
<p>Case study source(s)</p>	<p>Making Climate Your Business: Private Sector Adaptation in Southeast Asia (WRI)</p>
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