

<b>Title of case study*</b>	<b>Creating business value through ecological stormwater management</b>
<b>Date of submission*</b>	19/12/2012
<b>Name of organization(s)*</b>	<b>Cook Composites and Polymers Co. (CCP)</b>
<b>NWP Objective*</b> <i>Select the objective(s) of the NWP that the case study responds to.</i>	<p>The objective of the Nairobi work programme is to assist all Parties, in particular developing countries, including the least developed countries (LDCs) and small island developing States (SIDS), to:</p> <p><input type="checkbox"/> <b>improve their understanding and assessment</b> of impacts, vulnerabilities and adaptation to climate change; and</p> <p><input checked="" type="checkbox"/> <b>make informed decisions on practical adaptation actions and measures</b> to respond to climate change on a sound scientific, technical and socio-economic basis, taking into account current and future climate change and variability</p>
<b>Objective of case study*</b> <i>Describe the specific objective of case study.</i>	Being highly exposed to flooding on its Houston site, in the USA, CCP has chosen to restore its surrounding ecosystem rather than building another storm water management infrastructure. This operation, while enhancing the region's biodiversity will ultimately help the company save money, as well as benefit the local community.
<b>Actions*</b> <i>Describe the activities to meet the case study objective, highlighting organizations, communities and/or experts to be engaged.</i>	<p>Cook Composites and Polymers Co. (CCP) is an industrial company producing and distributing products such as gel coats, composite resins, or coatings resins. It owns a site in Houston US that is highly dependent on the natural flood regulation services from the local bayou ecosystem to prevent storm water from accumulating across its facilities and creating a nuisance. However, the development of impervious surfaces throughout Houston has disrupted this ecosystem service.</p> <p><b>Ecosystem regulation services, an alternative solution to fight floods</b> The CCP Houston site is currently equipped with a storm water management infrastructure that is ageing and not able to cope with the frequent storms and flooding that occur in the region. Therefore, CCP is planning to construct a wetland ecosystem to replace this infrastructure. CCP believes this progressive solution to a unique problem for an active industrial facility will require support and approval from multiple regulatory agencies.</p> <p><b>A multi-stakeholder project</b> CCP is working together with the U.S. Business Council for Sustainable Development (US BCSD), The Center for Resilience at the Ohio State University and other partners to analyze, design and construct a wetland to replace the existing storm water management infrastructure. CCP believes this unique partnership will:</p> <ul style="list-style-type: none"> <li>- support message point development for demonstrating project value to regulatory stakeholders (e.g., City of Houston Public Works, City of Houston Fire, TCEQ Houston, TCEQ Austin) and company shareholders; and</li> <li>- enable CCP to obtain approval from not just one but multiple state and local regulatory agencies.</li> </ul>
<b>Expected results*</b> <i>Describe the envisaged outputs/benefits of the case study/</i>	Through this project, CCP aims to restore the local ecosystem by reestablishing the natural hydrological cycle for its facility's location, as well as provide water purification services through the ecological storm water management solution.
<b>Indicators of achievement*</b> <i>Describe any quantitative and/or qualitative indicator to show that the objective of the case study has been achieved.</i>	<b>Results for business, results for the community, results for biodiversity</b> This ecological solution to the current ageing storm water management system will eliminate site flooding, allowing the company to save money on the reduction or elimination of storm water discharge, on nuisance costs associated with flooding, and also on the capital required to maintain the existing system. Additionally, the project will reduce the burden on the public water treatment system, whilst providing a natural amenity. These positive impacts, as well as the partnerships built during the project, will also enable CCP to strengthen its social license to operate in the region. Finally, the wetland

	enhancement will also benefit the local ecosystems as plant biodiversity is expected to increase by approximately 30 species.
<b>Region(s) relevant to case study*</b>	<input type="checkbox"/> All regions <input type="checkbox"/> Africa <input type="checkbox"/> Arab States <input type="checkbox"/> Asia <input type="checkbox"/> Caribbean <input type="checkbox"/> Central America <input type="checkbox"/> Europe <input type="checkbox"/> Least Developed Countries <input checked="" type="checkbox"/> North America <input type="checkbox"/> Pacific <input type="checkbox"/> Polar regions <input type="checkbox"/> Small Island Developing States <input type="checkbox"/> South America
<b>Country(ies) relevant to case study</b>	United States of America
<b>Business sector of the organization(s)*</b>	<input type="checkbox"/> Intergovernmental organization <input type="checkbox"/> National/regional programme/initiative <input type="checkbox"/> Non-governmental organization <input checked="" type="checkbox"/> Private sector entity <input type="checkbox"/> Research institute <input type="checkbox"/> UN organization/agency
<b>Adaptation sector relevant to case study*</b>	<input checked="" type="checkbox"/> Capacity building, education and training <input type="checkbox"/> Energy <input type="checkbox"/> Finance and insurance <input type="checkbox"/> Food, agriculture, forestry and fisheries <input type="checkbox"/> Human health <input type="checkbox"/> Oceans and coastal areas <input checked="" type="checkbox"/> Science, assessment, monitoring and early warning <input type="checkbox"/> Technology and Information & Communications Technology (ICT) <input type="checkbox"/> Terrestrial ecosystems <input type="checkbox"/> Tourism <input type="checkbox"/> Transport, infrastructure and human settlements <input checked="" type="checkbox"/> Water resources
<b>Adaptation activity delivered by case study*</b>	<input checked="" type="checkbox"/> Capacity building <input checked="" type="checkbox"/> Climate-resilient development planning <input type="checkbox"/> Communications and awareness-raising <input type="checkbox"/> Disaster risk reduction <input type="checkbox"/> Early warning systems <input type="checkbox"/> Education <input type="checkbox"/> Financial support <input type="checkbox"/> Humanitarian assistance <input checked="" type="checkbox"/> Knowledge management <input type="checkbox"/> Monitoring and evaluation <input type="checkbox"/> Pilot adaptation programmes/projects <input type="checkbox"/> Risk/vulnerability mapping <input type="checkbox"/> Training
<b>Work areas of the NWP*<sup>1</sup></b>	<input checked="" type="checkbox"/> Adaptation planning and practices <input type="checkbox"/> Climate modelling, scenarios and downscaling

\* Mandatory fields

<sup>1</sup> More information on the Nairobi work programme work areas is available at: <<http://unfccc.int/nwp>>

**Disclaimer:** These business cases have been cited to raise awareness about the engagement of the private sector in climate change adaptation. The information in the business cases has been provided either directly by the organization or obtained from a public source. The UNFCCC Secretariat has not verified the information and takes no responsibility for it. Users are therefore advised to verify the information before they take any action relying on the information provided in the business cases.

<p>Select among the nine work areas of the NWP that apply to the case study.</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Climate-related risks and extreme events</li> <li><input type="checkbox"/> Data and observations</li> <li><input type="checkbox"/> Economic diversification</li> <li><input checked="" type="checkbox"/> Methods and tools</li> <li><input checked="" type="checkbox"/> Research</li> <li><input type="checkbox"/> Socio-economic information</li> <li><input checked="" type="checkbox"/> Technologies for adaptation</li> </ul>
<p><b>Target group*</b></p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Academics</li> <li><input type="checkbox"/> Children</li> <li><input type="checkbox"/> Communities</li> <li><input type="checkbox"/> Policy makers</li> <li><input checked="" type="checkbox"/> Practitioners</li> <li><input checked="" type="checkbox"/> Private sector</li> <li><input type="checkbox"/> Women</li> </ul>
<p><b>Link</b> Further information on relevant websites.</p>	<p><a href="http://www.wbcsd.org/Pages/EDocument/EDocumentDetails.aspx?ID=22&amp;NoSearchContextKey=true">http://www.wbcsd.org/Pages/EDocument/EDocumentDetails.aspx?ID=22&amp;NoSearchContextKey=true</a></p>

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