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| Title of case study* | Panama's Bay Wetlands Project for reducing the potential risk of flood around Airport areas. |
| Date of submission* | 31/05/2013 |
| Name of organization(s)* | Copa Airlines |
| NWP Objective* <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>X improve their understanding and assessment of impacts, vulnerabilities and adaptation to climate change; and</p> <p>X make informed decisions on practical adaptation actions and measures 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> |
| Objective of case study* <i>Describe the specific objective of case study.</i> | <p>Develop a social and education awareness campaign on the importance attributed to national wetlands conservation. This campaign particularly focusses on the risks of not protecting mangroves in the Panama's Bay and is aimed at Panamanian students of nearby communities and the public in general. This campaign is developed in the context of the Panama's Bay Wetlands (RAMSAR, 2003) acting as a natural barrier from climate change impacts for the Tocumen International Airport, which is the site for Copa Airlines Regional Hub. Recent developments have put these wetland areas at risk. Through their participation in a climate change adaptation regional project, Copa Airlines has identified and recognizes the risk that these developments induce for both their operations and for nearby communities.</p> |
| Actions* <i>Describe the activities to meet the case study objective, highlighting organizations, communities and/or experts to be engaged.</i> | <p>The goal is to raise awareness in steps of two phases.</p> <p>1. First phase: communities outreach The focus will be on the communities that live nearby Panama's Bay Wetlands. Generally, these people are seen to have the highest risk to be impacted by adverse effects of climate change (i.e. close to both oceans and rivers, which makes them vulnerable to flooding). The areas that are selected for the first outreach to raise awareness are the Tocumen and Juan Díaz areas.</p> <p>The schools which will be targeted in these areas are the following:</p> <ul style="list-style-type: none"> • Elementary and Junior School Centro Básico General Ernesto T. Lefevre. • Elementary School Ricardo J. Alfaro • Junior and High School Colegio Elena Chavez de Pinate <p>Total number of people reached: 4616</p> <p>The organizations and entities that will be targeted are:</p> <ul style="list-style-type: none"> • NGO: Asociación Nacional para la Conservación de la Naturaleza (ANCON), since 1985. • Panama's Republic Education Ministry <p>The following actions will be undertaken to achieve the goals:</p> <ul style="list-style-type: none"> • Theoretical/practical workshops aimed at students and educational leaders • Monitoring and evaluation workshops • Educational tours for students and teachers to the area of Panama's Bay wetlands • Competitions in drawing, painting, poetry, song and environmental experience • Mangroves reforestation with the community <p>2. Second phase: sensitization and communication The second phase of this project will focus on a wider outreach and creating a</p> |

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| | <p>general awareness on the importance of the wetland ecosystems and the climate change issue.</p> <p>The following actions will be undertaken to achieve the goals:</p> <ul style="list-style-type: none"> • Environmental Documentary - Wetlands Protection (Media): 10 min to present in Copa flights and national TV • Environmental Capsules: 2 minutes |
| <p>Expected results* <i>Describe the envisaged outputs/benefits of the case study/</i></p> | <ul style="list-style-type: none"> • Execution of training program for students and teachers, creating advocates for environmental education model with emphasis on protection of wetlands • New leaders in communities with knowledge and sensitization on environmental problems, especially the Panama's Bay wetlands • Media plan to disseminate the problematic and to sensitize the community about the risks and flooding caused by not conserving and protecting wetlands, and all aspects that lead to climate change |
| <p>Indicators of achievement* <i>Describe any quantitative and/or qualitative indicator to show that the objective of the case study has been achieved.</i></p> | <p>The indicators for this project are:</p> <ul style="list-style-type: none"> • The number of teachers and students trained in relation to the protection of wetlands • Approximate percentage of people who were sensitized by the media campaign on the conservation of wetlands <p>Period: June 2013 - June 2014</p> |
| <p>Region(s) relevant to case study*</p> | <ul style="list-style-type: none"> <input type="checkbox"/> All regions <input type="checkbox"/> Africa <input type="checkbox"/> Arab States <input type="checkbox"/> Asia <input type="checkbox"/> Caribbean <input checked="" type="checkbox"/> Central America <input type="checkbox"/> Europe <input type="checkbox"/> Least Developed Countries <input 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 |
| <p>Country(ies) relevant to case study</p> | <p>Panama</p> |
| <p>Business sector of the organization(s)*</p> | <ul style="list-style-type: none"> <input type="checkbox"/> Intergovernmental organization <input type="checkbox"/> National/regional programme/initiative <input checked="" type="checkbox"/> Non-governmental organization <input checked="" type="checkbox"/> Private sector entity <input type="checkbox"/> Research institute <input type="checkbox"/> UN organization/agency |
| <p>Adaptation sector relevant to case study*</p> | <ul style="list-style-type: none"> <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 checked="" type="checkbox"/> Oceans and coastal areas <input type="checkbox"/> Science, assessment, monitoring and early warning <input type="checkbox"/> Technology and Information & Communications Technology (ICT) <input checked="" type="checkbox"/> Terrestrial ecosystems <input checked="" type="checkbox"/> Tourism <input checked="" type="checkbox"/> Transport, infrastructure and human settlements <input checked="" type="checkbox"/> Water resources |

* Mandatory fields

¹ 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.

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| Adaptation activity delivered by case study* | <input type="checkbox"/> Capacity building <input checked="" type="checkbox"/> Climate-resilient development planning <input checked="" type="checkbox"/> Communications and awareness-raising <input checked="" type="checkbox"/> Disaster risk reduction <input type="checkbox"/> Early warning systems <input checked="" type="checkbox"/> Education <input type="checkbox"/> Financial support <input type="checkbox"/> Humanitarian assistance <input type="checkbox"/> Knowledge management <input checked="" type="checkbox"/> Monitoring and evaluation <input type="checkbox"/> Pilot adaptation programmes/projects <input type="checkbox"/> Risk/vulnerability mapping <input checked="" type="checkbox"/> Training |
| Work areas of the NWP*¹ <i>Select among the nine work areas of the NWP that apply to the case study.</i> | <input checked="" type="checkbox"/> Adaptation planning and practices <input type="checkbox"/> Climate modelling, scenarios and downscaling <input type="checkbox"/> Climate-related risks and extreme events <input type="checkbox"/> Data and observations <input type="checkbox"/> Economic diversification <input type="checkbox"/> Methods and tools <input type="checkbox"/> Research <input type="checkbox"/> Socio-economic information <input type="checkbox"/> Technologies for adaptation |
| Target group* | <input type="checkbox"/> Academics <input checked="" type="checkbox"/> Children <input checked="" type="checkbox"/> Communities <input type="checkbox"/> Policy makers <input type="checkbox"/> Practitioners <input type="checkbox"/> Private sector <input type="checkbox"/> Women |
| Link <i>Further information on relevant websites.</i> | http://panamanglar.org/ |
| Description <i>Provide a title and brief description of the picture and of the case study. This information will appear with your image on the homepage of the NWP.</i> | <p>The Panama's Bay Wetlands size is 297km² and constitutes 21% of total Pacific wetlands (Ramsar, 2003). The Panama's Bay Wetlands, which act as a natural barrier from climate change impacts for the Tocumen International Airport where Copa Airlines' Hub is located, have been affected by new constructions in the area, due to lack of awareness about the importance of the ecosystem and lack of supervision from the environmental agencies. This Project wants to introduce the sensitization of the communities impacted on the subject.</p> |

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