

# CLIMATE CHANGE ADAPTATION BULLETIN

A Quarterly Update of Activities

United Nations Development Programme



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Empowered lives.  
Resilient nations.

This bulletin is produced by the UNDP-GEF Unit of UNDP's Sustainable Development cluster within the Bureau for Policy and Programme Support and provides an overview of UNDP-GEF's support to countries to affect policy and institutional change for climate change adaptation at the national, sub-national and community levels. It includes updates on a range of topics including the status of on-going projects, new project approvals, performance indicators, project impacts and results, and noteworthy announcements. To contribute to future issues, please write to: [adaptation@undp.org](mailto:adaptation@undp.org)

## Featured Stories

### CAMBODIA

#### No Water, No Life; Climate-proofing Agricultural Practices and water Management in Rural Cambodia



Tourn Sakon, from Kulen Cheug village, Preah Vihear province used to walk 200 metres to fetch water from a pond in his village. Now that there is solar power and water connected to his house, he can focus his attention on diversifying his crops using newly learned agricultural techniques. Photo: UNDP Cambodia

Cambodia's Ministry of Agriculture, Forestry and Fisheries (MAFF) is helping rural farming communities become more resilient via the Climate Change Adaptation Facility (CCAF), established by the Government of Canada and in partnership with UNDP. This initiative aims to sustainably increase agricultural yields in the face of climate change. Cambodia's Ministry of Women's Affairs is working to mainstream gender issues, and the distinct roles of men and women, into climate change adaptation. The aim is to empower

women and encourage equal participation in resilience-building activities.

View the photo essay in [English](#), [French](#), [Spanish](#)

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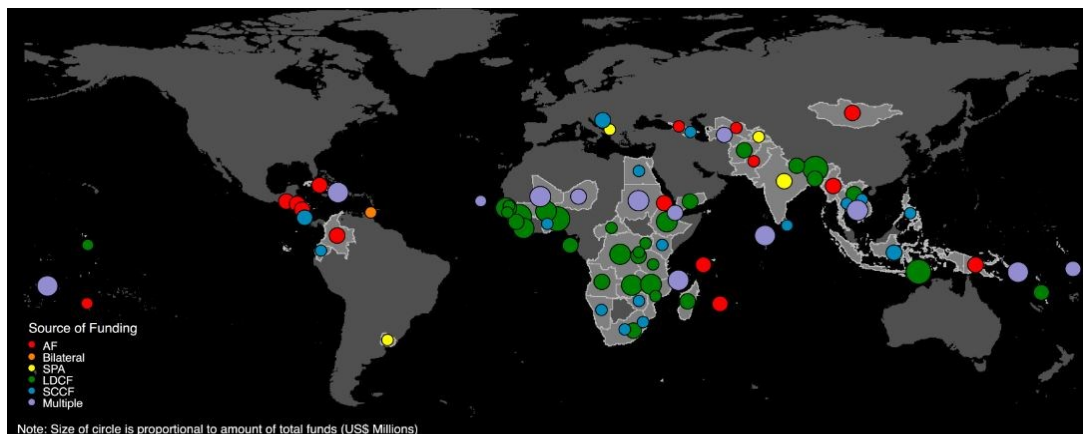
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## Quick Glance at UNDP's Adaptation Portfolio

(as of May 2015)



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## CAMBODIA

### Woman Wins Model Farming Award



Ms. Roon March, a model farmer for integrated farming from Preah Vihear province, wins 5th place in a nationwide farmer competition. Photo: UNDP Cambodia

A Cambodia woman who used to rely on doing odd jobs for a living has become one of the top five winners in the latest round of farming competition organized by the Ministry of Agriculture, Forestry and Fisheries (MAFF). The single mother of two children is one of 13,581 villagers who are benefiting from a project funded by the Government of Canada, GEF/LDCF and UNDP. Apart from helping address the problem of water shortage, the project also trains villagers on techniques to diversify farming to increase their food security, income and resilience to impacts of climate change.

[Read the story](#)

## CAMBODIA

### Student Gardeners Get Hands-on Lessons in Climate Change Adaptation



12 year-old Ngean Savry, grade 5, waters vegetables during a study break in Kok Srolao Primary School in Preah Vihear province. Photo: Naratevy Kek/UNDP Cambodia

A solar pump built in late 2014 benefits 271 students and teachers at Kok Srolao Primary School as well as 8 households nearby. It was built to improve access to water and for use as a learning site to better educate students on climate change impacts and adaptation. It also exposes students with practical experiments in Integrated Farming Systems. At Kok Srolao School, the students grow about 10 types of vegetables such as morning glory, yard long bean, cucumber, a few types of cabbages and amaranth. According to the school director, vegetable yield has tripled with the introduction of the solar pump infrastructure. What is left over after breakfast is shared among the students. Some of them take it home, while others sell their remaining vegetables to the market.

[Read the story](#)

## CAMBODIA & LAO PDR

### Lao Delegation Learns Organic Farming Tricks from Cambodian Neighbors

Twenty-five representatives from the project 'Improving Resilience of the Agriculture Sector to Climate Change Impacts (IRAS)' in Lao PDR made a four-day study tour to Cambodia in February 2015 through



Members of Lao delegation take note as Ms. Kuy Samoeun, third from the left, explains how to make organic pesticide and fertilizer during a recent knowledge sharing visit to Toeuk Kraham commune, Preah Vihear province. Photo: Naratevy Kek/UNDP

UNDP facilitation. The delegation visited several UNDP supported project sites and gained experience on climate change adaptation practices in the agriculture sector. During the South-South knowledge exchange visit, the delegation also met with Cambodian farmers who have been benefiting from project interventions such as the solar water pump systems and seed purification techniques, which allow farmers to select resilient rice seeds by themselves.

[Read the story](#)

## HAITI

### Coasts at Risk: Improving the Climate-resilience of Low-elevation Coastal Zones



The ladies are members of the Mombin watershed committee responsible for the management of the Mombin Village nursery. Photo: UNDP Haiti

Championed by the Government of Haiti and supported by UNDP, with funding from the GEF/LDCF and additional financing from the Government of Canada a project was designed to strengthen food security of local farmers, enhance watershed management in the face of climate change, and promote reforestation of mangroves and forests to protect against climate induced hazards, erosion, and sea level rise.

View the photo essay in [English](#), [French](#), [Spanish](#)

## MYANMAR

### Reducing Poverty and Building Resilience to Climate Change in Myanmar's Dry Zone



A man fills his water container from the Taung Shae Village tube well in the Dry Zone of central Myanmar. Photo: UNDP Myanmar

The Government of Myanmar recently launched one of its first climate change adaptation projects. The project is financed by the Adaptation Fund, with support from UNDP, and aims to support 250,000 people in Myanmar's Dry Zone with: enhancing water capture and storage in 280 villages while protecting and rehabilitating 4,200 hectares of micro-watersheds; promoting drought-resilient crop varieties and conservation agriculture practices on 5,600 hectares of drought-prone land and support a resilient post-harvest processing system; and supporting 6,300 landless households in developing a climate-resilient livestock production system.

[Read the blog](#)

(continued from page 2 - Featured Stories)

## PERU

### The Water Gods: The Rural community of Canchayllo Has Successfully Rehabilitated the Chara-Jutupuquio Canal and Repaired the Crest of the Dam in the Chara Lagoon



Foster Damián, President of the Canchayllo rural community, opens a newly rehabilitated Chacara-Jutupuquio canal. Photo: Carlos Díaz Huerta

For the residents of Canchayllo (Jauja district, Peru) in the Nor Yauyos Cochis Landscape Reserve, climate change has sparked engineering and good reflexes. Here, people have changed their habits, infrastructure and organization in order to protect and restore pasture- and water-management in the area. Through, EbA Montaña, a mountain ecosystem-based adaptation project, the crest of a dike at the Chacara lagoon has been

repaired and a 2855-meter canal has been rehabilitated. This will have multiple benefits: during winter, more water will be stored in preparation for summer; water will be transported from the Chacara sector to Jutupuquio with infiltration all along the route; 800 hectares of natural pastures and grasslands in the communal farm and the surrounding areas will be humidified; in addition, this will allow for water infiltration in the highlands that feed the Yanaotuto and Pumapanca springs.

View the photo essay in [English](#), [French](#)

## PERU

### Guardians of Tradition: The District of Miraflores rescues the live culture in their farming techniques to adapt to climate change



Robigildo Toipe and Priscilo Ruiz Abarca are both local project researchers for the EbA Montaña programme in Peru. Photo: Carlos Díaz Huerta

Communal management of native prairies and the improvement of ancestral water infrastructure are climate change adaptation measures based on ecosystems being launched in the Miraflores district, located in the Landscape Reserve Nor Yauyos Cochis in Peru. Institutional strengthening and communal capacities for water management, pasture and livestock, reutilization of ancestral infrastruc-

ture, as well as the increase of livestock productivity and profitability are some of the medium and long term benefits for the population. This work is part of the [Mountain Ecosystems-Based Adaptation program \(EbA\)](#), a collaborative initiative of the United Nations Environment Programme (UNEP), the International Union for Conservation of Nature and Natural Resources (IUCN) (through its implementing partner, the Mountain Institute (MI) and UNDP, funded by the Federal

Ministry for the Environment, Nature Conservation, Public Works and Nuclear Safety of the German Government (BMUB). In Peru, the programme is run by the Ministry of Environment of Peru (MINAM) and is implemented in the Nor Yauyos-Cochas Landscape Reserve (RPNYC), with support from the National Service for Protected Natural Areas (SERNANP).

[View the photo essay](#)

## PERU

### Highland Rodeo: The chaccu, an ancestral tradition of herding vacuñas, is an important yardstick of success in ecosystem-based adaptation to climate change



Tanta villager administering the antiparasitic drug to vicuña to protect against scabies. Photo: Carlos Díaz

Common practices of people in Tanta, a small community in the central highlands of Peru, led to domestic livestock invading the region of Moyobamba, a natural grassland area of the highlands that is home to many vicuña, resulting in the topsoil being damaged. “Such activity produced soil erosion, exacerbated by changes in rainfall, and impeded the capture and penetration of water, causing runoff and erosion,” recounts Rommel Segura, a Tanta-based expert in pastureland and livestock, and an agronomist. Indeed, many experts predict that, if the current situation were to continue, by 2030 Tanta would suffer unprecedented water stress. But that would not be the worst-case scenario: in fact, even coastal areas such as Cañete and Lima would see their water supply (for human consumption, agriculture and electricity) depleted considerably. Segura continues: “Similarly, the unbridled coexistence of vicuñas with domestic livestock has resulted in the spread of parasitic diseases, especially scabies in alpacas and llamas.” Therefore it is timely to discuss the subject of chaccu, a type of method for herding animals in an effort to enclose them and usually shear them. However, on this occasion, this traditional activity has another objective: medicating animal with a view to combating scabies that is leading to mortality among the animals.

View the photo essay in [English](#), [French](#)

## VANUATU

### At the Apex of Climate Change, Disaster Reduction, and Recovery

Tropical cyclone Pam certainly left many scars throughout Port Vila: damaged buildings, one-sided trees, destroyed boats, and broken sea walls all silently speak of the immense power of what had swept through the land and the sea on the evening of 13th March 2015.

Food security is a concern. The vegetable market at the centre of the town is still closed – there is no fresh produce left anywhere on the



(Continued from page 3 - Featured Stories)



Scene from the destruction caused by Cyclone Pam Photo: Shoko Takemoto/UNDP

islands – and it may take weeks and months before the market will return to colour and life. Climate change and disasters go hand-in-hand in this exposed island nation, and clearly this disaster requires immediate relief. Officials from the Ministry of Climate Change (MOCC) highlighted that the focus on resilience efforts will be at the heart of the recovery phase and

wanted to ensure that the \$8 million UNDP has mobilized from the [GEF's LDCF](#) is used strategically to enhance climate and disaster resilience.

[Read the blog](#)

## UNDP/UNEP Launch New Capacity Development Programme for Climate Change Negotiators from Least Developed Countries



Photo: UNDP

On 9 March, UNDP and UNEP jointly launched a new global support programme to assist LDCs in strategically engaging in intergovernmental climate change negotiation processes. The new initiative titled 'Building Capacity for LDCs to Participate Effectively in Intergovernmental Climate Change Processes' was launched in Bangkok. It will provide technical assistance to a select group of negotiators from LDCs. Its aim is to strengthen key negotiation skills, applying climate change information and science, and understanding the climate change policy-making framework under the UNFCCC). Innovative learning methods will be used, including simulated negotiation sessions, e-learning, mentoring, and opportunities to participate in an active network of practitioners to continually share knowledge and expertise. This support to LDCs comes at a critical time, as climate negotiators are engaged in the process of climate change diplomacy leading to a new climate treaty at [COP21](#) in Paris in December 2015, aiming to limit the global temperature increase to 2 degrees Celsius above pre-industrial levels.

[Read the Press Release](#)

## Featured Resources

### VIDEO

#### Climate Change in the Pacific: Coasts

Low-lying coastal areas are often the most populated parts of islands, with villages, towns, agriculture, infrastructure and tourist development competing for space. Unfortunately, coasts are also particularly vulnerable to climate hazards and weather events. The resulting im-



Coasts are particularly vulnerable to climate hazards and weather events. This video is narrated by renowned astrophysicist Neil deGrasse Tyson. Top Photo: UNDP; Bottom Photo: Chris Cassidy

pacts – coastal erosion, infrastructure damage, flooding and salt water intrusion – present a critical challenge to many Pacific island coastlines. Supported by UNDP and the Secretariat of the Pacific Regional Environment Programme (SPREP), the Pacific Adaptation to Climate Change (PACC) programme is the first major climate change adaptation initiative in the Pacific region. Since it began in 2009 the programme has laid the groundwork for more resilient Pacific communities that can cope with climate variability today, and climate change tomorrow.

This short video, narrated by renowned astrophysicist **Neil deGrasse Tyson**, highlights the PACC projects that are working to reduce the vulnerability of island coasts.

View the video: [English](#), [English \(with French subtitles\)](#)

[View the corresponding photo essay](#)

### VIDEO

#### Canada-UNDP Climate Change Adaptation Facility Trailer



Photo: Canada-UNDP CCAF

This short trailer gives an introduction to the Canada-UNDP Climate Change Adaptation Facility (CCAF). Established as a partnership between Canada and UNDP to address food security, the facility aims to strengthen climate-resilient approaches to agriculture and water management, with an emphasis on gender-sensitive approaches. The CCAF incorporates national projects in Cambodia, Cabo Verde, Haiti, Mali, Niger, and Sudan that scale up or extend projects previously supported by the GEF's LDCF.

[View the video](#)

### VIDEO

#### Canada-UNDP Climate Change Adaptation Facility: Experience from Haiti



Photo: Canada-UNDP CCAF

This short video provides an illustration of the activities undertaken and results achieved to date under the Canada-funded project in Haiti. This project is implemented alongside the LDCF project on strengthening adaptive capacities of coastal communi-

*(continued from page 4 - Featured Resources)*

ties, as well as building on the Vulnerability South project funded by Norway. It aims to scale up good practices and concrete results to reach more beneficiaries in the Southern Region of Haiti. Currently, three sets of activities – all NAPA priority measures - are being implemented under this phase. These include: strengthening food security of local farmers, enhancing watershed management in the face of climate change, and reforestation of mangroves and forests to protect against climate-induced hazards, erosion and sea level rise.

[View the video](#)

## VIDEO

### Climate Change Adaptation and Disaster Risk Reduction in Ethiopia



Photo: UNDP

Borana in Ethiopia was one of the worst hit regions during the 2010 Horn of Africa drought. With climate change, more frequent and extreme weather patterns are expected to occur. Rainy seasons are becoming unpredictable. Droughts, a constant worry in this part of the world, may

become even more frequent and long lasting. For vulnerable communities, these slow on-set disasters risk wiping out hard-won development gains and trapping people in poverty. With support from UNDP and other partners, the Government of Ethiopia has embarked on a process to strengthen community awareness and preparedness, strengthen early warning systems, and build institutional capacity to manage climate change and disaster risk reduction.

[View the video](#)

## GUIDANCE DOCUMENT

### Guidance on Generating Content: Capturing and Creating Stories, Photos, and Films

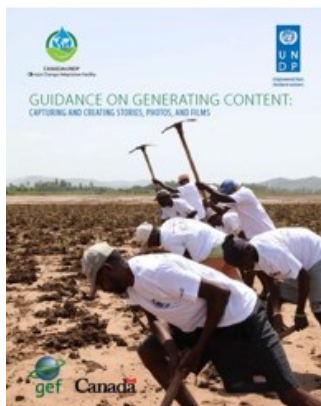


Photo: Canada-UNDP CCAF

Effective documentation and sharing of the experiences and lessons emerging from adaptation projects is critical in order to ensure that results are informing broader adaptation processes. To support this effort, a guidance document has been created, entitled: **Guidance on Generating Content: Capturing and Creating Stories, Photos and Films.**

This document provides guidance for national project teams to capture, organize, share, and create material – such as stories, photos and films,

that will feed into knowledge and communications products. The document includes details on writing stories, planning your photos and film, taking photos, using tools like Microsoft Photostory Software, writing Exposure Photo Essays and printed publications, among other topics. It is hoped that this publication will have utility for all national project teams.

This document was developed under the Canada-UNDP Climate Change Adaptation Facility (CCAF), with input from the UNDP Communications team. The CCAF is a global project incorporating six national projects that build on former GEF/LDCF projects in Cambodia, Cape Verde, Haiti, Mali, Niger and Sudan. The CCAF projects all contribute to strengthening climate-resilient approaches to agriculture and water management, with an emphasis on gender-sensitive approaches. A global component supports these efforts by promoting south-south collaboration and sharing of experiences between the six countries, as well as documenting lessons and analyzing results to be shared more widely.

This publication can be found at the following links:

[English \(interactive version\)](#)

[French \(interactive version\)](#)

[English \(PDF\)](#)

[French \(PDF\)](#)

## Events

### Global Workshop: Tackling the challenge of climate change adaptation through sharing experiences



Photo: Jennifer Baumwoll/UNDP

A workshop, co-hosted by the Canada-UNDP Climate Change Adaptation Facility (CCAF) and the Africa Climate Adaptation Food Security (ACA) regional programme, brought together experts from eleven countries to share their experiences and lessons learned on a variety of adaptation-related issues.

The Workshop, which included a project site visit, took place in Niamey, Niger from 2-5 March. Representatives from countries in Africa, Asia, Latin America and the Arab States were brought together to share experiences and document critical lessons and successes emerging from their ongoing projects.

[Read more about this event](#)

(Continued from page 5 - Events)

## Regional Workshop on creating value added weather and climate services through innovative public private partnerships

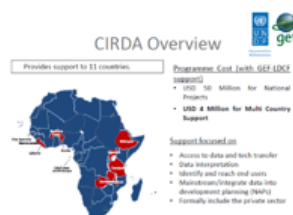


Photo: UNDP

Upon invitation by the Government of Uganda, UNDP organized a workshop to discuss building successful private public partnerships to advance weather and climate information services for adaptation and development in 11 select African LDCs. This event welcomed over 80 delegates from 15 countries including government and private sector representatives from various sectors including telecommunications, financial, aviation and agriculture.

[Read more about this event and access presentation materials](#)

### Previous Issues of the UNDP Adaptation Bulletin

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<a href="#">Issue 13</a>		

### Acronyms

AF	Adaptation Fund
BMUB	Germany's Federal Ministry for the Environment, Nature Conservation, Public Works and Nuclear Safety
CCAF	Canada-UNDP Climate Change Adaptation Facility
COP21	21st Session of the Conference of Parties to the UNFCCC
EBA	Ecosystem-based Adaptation
GEF	Global Environment Facility
IUCN	International Union for Conservation of Nature
LDC	Least Developed Country
LDCF	Least Developed Countries Fund
NAPA	National Adaptation Programme of Action
PACC	Pacific Adaptation to Climate Change
SCCF	Special Climate Change Fund
SPREP	Secretariat of the Pacific Regional Environment Programme
UNDP	United Nations Development Programme
UNDP-GEF	UNDP Global Environmental Finance Unit
UNEP	United Nations Environment Programme
UNFCCC	United Nations Framework Convention on Climate Change

## Recent Concept and Project Approvals

Country & Project Title	Source of Funds & Grant (US\$M)	Concept/Project & Approval Date
<b>Bosnia and Herzegovina:</b> Technology transfer for climate resilient flood management in Vrbas River Basin	LDCF 5.00	Project Feb-15
<b>Democratic Republic of Congo:</b> Resilience of Muanda's communities from coastal erosion	LDCF 5.36	Project May-15
<b>Global:</b> Assisting Least Developed Countries (LDCs) with country-driven processes to advance National Adaptation Plans (NAPs) – Phase II	LDCF 3.80	Concept Feb-15
<b>Kiribati:</b> Enhancing national food security in the context of global climate change	LDCF 4.45	Project Mar-15
<b>Mali:</b> Flood hazard and climate risk management to secure lives and assets in Mali	LDCF 8.93	Concept Jan-15
<b>Namibia:</b> Scaling up climate resilience in Northern Namibia	SCCF 3.05	Project Jan-15
<b>Zambia:</b> Promoting climate-resilient, community-based regeneration of indigenous forests in Zambia's Central Province	LDCF 3.89	Project May-15

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