

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 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 ongoing projects, new project approvals, performance indicators, project impacts and results, and noteworthy announcements. To contribute to future issues, please write to: adaptation@undp.org

Supporting Climate Change Adaptation in Small Island Developing States (SIDS)

UNDP supports a substantial portfolio of projects in Small Island Developing States (SIDS) focused on climate change adaptation. We are pleased to highlight the impacts of several of these initiatives in this issue.

20,000 Mangroves Strong: Planting Roots and Securing a More Resilient Future in Mauritius

The coast of Mauritius is increasingly vulnerable and exposed to the risks of climate change, leaving its societies and economies at risk. Coastal communities are already impacted: bearing witness to land erosion and changes in fish stock that threaten their livelihoods. Faced with the "new" reality of sea-level rise and frequent tidal surges, residents of coastal areas are taking matters into their own hands by implementing strategies to adapt and to establish new, climate-resilient approaches to safeguard their future.

With financing from the Adaptation Fund (AF), UNDP is assisting inhabitants of the village of Grand Sable, a small planters' community, with planting 20,000 mangroves, which serve as natural coastal defence to protect from rising water, flood and lagoon siltation.

View the full photo essay [here](#).



Residents of Grand Sable village plant mangroves along the Mauritius coastline. Photo: UNDP

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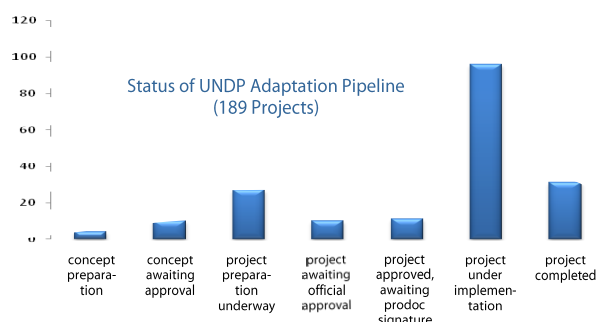
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Quick Glance at UNDP's Adaptation Portfolio

(as of July 2014)



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Providing a Safe Haven: Climate Proofing Mangaia Harbour in the Cook Islands



Minor adjustments to Mangaia Harbour dramatically improved its resilience to natural disasters. Photo: Andrea Egan

The second largest of the Cook Islands was stripped of a vital source of trade and economic prosperity in 2005 when tropical cyclones Meena and Nancy destroyed Mangaia Harbour. The transfer of goods to the island was cut off by the natural disasters, leaving the community vulnerable and hindering economic development. These events further isolated the island from foreign and domestic markets and put livelihoods at stake.

In April 2014, Mangaia Harbour was given a second chance: Avarua Landing, as the locals call Mangaia Harbour, could start operating for full again after nine years of reduced capacity. With financial support from the AF, UNDP was able to support a team of scientists and engineers partnered to design a more climate-resilient harbour infrastructure with improved ability to withstand rough seas, providing a more prosperous future for generations to come.

View the full photo essay [here](#)

Protecting drinking water from droughts and sea level rise in the Marshall Islands



The 2013 drought took a toll on the ecosystems of the Marshall Islands atoll, leaving a trail of damage that will last several years. Photo: UNDP

With climate change causing more extreme weather events, the Marshall Islands finds itself with too much sea water rising and not enough fresh water falling. The 34 islands that make up the atoll nation are only an average of 3-4 metres above sea level, and will be heavily inundated with a 1-metre rise in sea level. Coupled with changes in rainfall patterns, the country's already limited fresh water is at risk. In 2013, the Marshall Islands suffered an extreme drought that threatened drinking water and crops. Twenty per cent of the population was affected.

With support from UNDP and the Secretariat of the Pacific Regional Environment Programme (SPREP), the Government has improved rainwater collection in the capital city of Majuro and installed solar-powered water purifiers in more remote areas. This initiative, part of the Government of Australia and Special Climate Change Fund (SCCF)-financed 'Pacific Adaptation to Climate Change' programme, has increased Majuro's freshwater stores, which can now last the city 3 to 4 months in an emergency.

Read the full story [here](#).

Transforming Nyabihu District in Rwanda



Communities participate in the construction of graded terraces in the steep hillsides in Nyabihu, allowing excess rainwater to run off without damaging the structural integrity of the soil or contributing to erosion. Photo: Rik Moors/One UN Rwanda

The hills of Rwanda's Nyabihu district, famous for their fertility and potential for high agricultural yields, are vulnerable to the effects of climate variability which result in unpredictable rainfall and can lead to floods or droughts. In order to address the risks posed by climate change, activities have been implemented via a UNDP supported initiative financed by the Least Developed Countries Fund (LDCF), in Nyabihu and three other districts

(Rubavu, Ngororero and Rutsiro) which promote and demonstrate integrated watershed management practices by increasing ecosystem resilience against climate shocks. In Nyabihu, community members participate in the construction of graded terraces in the steep hillsides which allow excess rainwater to run off without damaging the structural integrity of the soil or contributing to erosion. Through this practice crops receive the right amount of water and nutrients, and the entire area has a decreased risk of landslides and flooding.

View the full photo essay [here](#).

Events

LDC Experiences Ensuring Food Security in a Changing Climate: Side Event at the 5th GEF Assembly



Photo: UNDP

This side event at the 5th GEF Assembly in Cancun highlighted the importance of the UNDP-Canada Partnership to the countries that are receiving finance for adaptation including scaling up results that had been achieved through LDCF resources. Citing examples from Niger, Sudan and Cambodia, the following points were highlighted: (1) the role that technology can have in effecting a transformative change in rural settings in not only adaptation to climate change but also in terms of other multiplier benefits such as mitigation as well as health benefits (e.g. introduction of PV based water pumps for irrigation in Cambodia and Sudan); (2) the role of women as champions and agents of change at the community level including the diffusion and adoption of technologies; and (3) the impact of public policy in creating the enabling environment for Small Medium Enterprises to safeguard businesses and/or pursue alternative enterprises that succeed under changing climate conditions. An active discussion took place between the panelists and the audience on different ways in which public policy can pave the way to direct or redirect private investment towards climate resilient practices. Evidence based results tracking was also highlighted as important in order to guide future adaptation programmes.

For a full summary of this side event, please click [here](#). More about the UNDP-Canada Climate Change Adaptation Facility can be found [here](#).

(continued from page 2 - Events)

Roundtable on Strengthening Development of Weather, Climate and Hydrology related Early Warning Systems in Africa



Photo: UNDP

On 20 & 21 May 2014 a roundtable event was held in Nairobi on strengthening the development of early warning systems in Africa. Participants from development banks, various agencies, and meteorological services assembled to share information on their Early Warning Systems (EWS) activities, learn lessons from similar work

elsewhere, and to identify key entry points to catalyse greater programme coordination across Africa. Chaired by the World Meteorological Organization (WMO) and hosted by UNEP and UNDP, this roundtable provided an informal opportunity to raise awareness of the myriad of programmes focusing on, or supporting, the use of climate information and early warning systems across the continent.

More information on this event can be found [here](#).

The 'Multi Country Programme to Strengthen Climate Information for Resilient Development and Adaptation to Climate Change in Africa' (CIRDA) will enable vulnerable countries in Africa to strengthen national climate information systems as well as to benefit from regional coordination and draw upon a platform of knowledge management.

For additional information on the CIRDA, please click [here](#).

Recent Concept and Project Approvals

Country & Project Title	Source of Funds & Grant	Concept/Project & Approval Date
Gambia		
Strengthening Climate Services and EWS in West & Central Africa for Climate Resilient Development and Adaptation to Climate Change	LDCF 3.00	Project Jul-14
Malawi		
Climate proofing local development gains in rural and urban areas of Machinga and Mangochi Districts	LDCF 5.32	Project Jul-14
Timor Leste		
Building shoreline resilience of Timor Leste to protect local communities and their livelihoods	LDCF 7.00	Concept Jul-14

Featured Resources

[New Videos Available](#)

Cambodia: Weathering the Storm



This video showcases the efforts made and results achieved to mitigate and adapt to climate change impacts in Cambodia. It highlights various UNDP-supported initiatives, financed by the LDCF and other sources, and aims to raise awareness on how these climate change related efforts contribute to improving the lives and resilience of communities in Cambodia's rural areas. Click [here](#) to view the video.

Honduras: Addressing climate risk in water resources management



This video highlights the achievements, as of May 2014, of the AF financed and UNDP supported project in Honduras. Click [here](#) to view the video. More information on this project can be found on [facebook](#) and the [UNDP-ALM](#) platform.

Bhutan: A Deluge of Consequences



This video features a UNDP-supported LDCF financed initiative which involved the manual excavation of Lake Thorthormi, one of the 20+ Himalayan glacial lakes that had been considered at critical risk of bursting because of the rapid increase of glacial melting due to climate change. Click [here](#) to view the video. Additional information on the featured project is available on the [UNDP-ALM](#) platform.

World Environment Day



As people around the globe commemorated World Environment Day on 5 June 2014, which focuses this year on Small Island Developing States (SIDS) and their particular vulnerability to the effects of climate change, UNDP renewed its call for a fresh approach to environmental protection, one which recognizes the intricate and deep connection between protecting the environment and human development. This video features footage from several UNDP-supported adaptation initiatives in SIDS and also highlights the importance of supporting vulnerable nations to achieve the "triple win" of sustainable growth, poverty alleviation and environmental protection. Click [here](#) to view the video.

Status of UNDP-supported Adaptation Initiatives

Region	Country	Source of Funds	Grant (US\$M)	Region	Country	Source of Funds	Grant (US\$M)
1. Concept Preparation <i>(by Country with UNDP support)</i>				3. Concept Approved; Project Preparation Underway - (continued) <i>(by Country with UNDP support)</i>			
Africa	Burundi	LDCF	5.00	Asia	Cambodia (2)	LDCF	9.48
Asia	Myanmar	LDCF	10.20		Global	SCCF	2.25
	Nepal	LDCF	7.00		Timor Leste (2)	LDCF	12.25
Europe & Central Asia	Montenegro	SCCF	3.00	Europe & Central Asia	Bosnia Herzegovina	SCCF	5.00
2. Concept Awaiting Approval <i>(by GEFSEC or AFBSEC)</i>				Latin America & Caribbean	Haiti	LDCF	5.38
Africa	Benin	LDCF	8.00	Pacific	Kiribati	LDCF	4.45
	Mali	LDCF	8.93		Samoa	LDCF	12.32
	Senegal	LDCF	5.46		Vanuatu	LDCF	8.03
	Sierra Leone	LDCF	9.98	4. Project Awaiting Approval <i>(by GEFSEC or AFBSEC)</i>			
Asia	Bhutan	LDCF	10.50	Africa	Burundi	LDCF	8.72
Global	Global	LDCF	3.80		Ghana	AF	7.64
	Global	BMUB	9.52		Malawi	LDCF	4.50
	Global	BMUB	13.64	Mali	AF	7.86	
Latin America & Caribbean	Costa Rica	SCCF	5.00	Arab States	Djibouti	LDCF	5.38
	Suriname	SCCF	4.51	Tunisia	SCCF	5.50	
3. Concept Approved; Project Preparation Underway <i>(by Country with UNDP support)</i>				Global	Global—supporting LDCs with NAPs	LDCF	2.00
Africa	Angola	LDCF	9.20	Pacific	Fiji	AF	5.28
	Benin	LDCF	8.00	5. Project Approved; Awaiting ProDoc Signature <i>(by UNDP and Country)</i>			
	DRC (2)	LDCF	10.09	Africa	Burkina Faso	LDCF	7.00
	Guinea	LDCF	8.00		Gambia	LDCF	3.00
	Lesotho	LDCF	8.40		Malawi	LDCF	5.32
	Madagascar	LDCF	5.88		Niger	LDCF	3.75
	Mali (2)	BMUB/LDCF	10.46		Seychelles	AF	5.95
	Namibia	SCCF	3.05		Arab States	Sudan	LDCF
	Sao Tome and Principe	LDCF	4.00	Asia	Bangladesh	LDCF	5.65
	Senegal	LDCF	4.10		Myanmar	AF	7.29
	Zambia	LDCF	3.89		Sri Lanka	SCCF	3.12
Arab States	Somalia	LDCF	8.00	Latin America & Caribbean	Cuba	AF	5.59
	Yemen	LDCF	4.92	Guatemala	AF	5.00	
				Pacific	Solomon Islands	LDCF	6.85

Status of UNDP-supported Adaptation Initiatives

(continued)

Region	Country	Source of Funds	Grant (US\$M)	Region	Country	Source of Funds	Grant (US\$M)
6. Under Implementation (by Country with UNDP support)				6. Under Implementation - (continued) (by Country with UNDP support)			
Africa	Benin (2)	LDCF	7.41	Africa	Tanzania	LDCF	3.60
	Burkina Faso (2)	LDCF	6.50		Uganda	LDCF	4.00
	Cape Verde (2)	DFATD/LDCF	4.80		Zambia	LDCF	3.80
	Central African Republic	LDCF	2.78	Arab States	Djibouti	AF	4.29
	Comoros (3)	GOF/LDCF	11.75		Egypt	SCCF	4.00
	DRC	LDCF	3.00		Somalia	LDCF	0.20
	Equatorial Guinea	LDCF	0.20		Sudan (2)	DFATD/LDCF	6.10
	Eritrea	AF	6.01	Asia	Afghanistan	LDCF	9.00
	Ethiopia (2)	LDCF	9.81		Bangladesh	LDCF	3.30
	Gambia	LDCF	8.90		Bhutan	LDCF	11.49
	Ghana	SCCF	1.72		Cambodia	DFATD	2.24
	Guinea (2)	LDCF	6.69		India	SPA	5.76
	Guinea Bissau	LDCF	4.00		Indonesia	SCCF	5.00
	Kenya (2)	GOF/SCCF	1.14		Lao (2)	LDCF	9.15
	Liberia (3)	LDCF	11.35		Maldives (3)	AF/LDCF	14.43
	Malawi	LDCF	3.60		Mongolia	AF	5.07
	Mali	DFATD/LDCF	4.29		Nepal	LDCF	6.30
	Mauritius	AF	8.40		Pakistan	AF	3.60
	Mozambique	LDCF	4.43		Philippines	SCCF	1.05
	Namibia	BMUB	0.30		Thailand	SCCF	0.87
	Niger (2)	DFATD/LDCF	5.90		Timor Leste	LDCF	4.60
	Regional	SPA	3.30	Vietnam	SCCF	1.40	
	Regional	LDCF	3.76	Europe and Central Asia	Azerbaijan	SCCF	2.70
	Rwanda	LDCF	3.49		Georgia	AF	4.90
	Sao Tome and Principe	LDCF	3.60		Tajikistan	SPA	1.90
	Sierra Leone (2)	LDCF	6.54		Turkmenistan	AF	2.70
	South Africa	SCCF	3.54		Uzbekistan	AF	5.08
	Swaziland	SCCF	1.67	Global	Global - with WHO (7 countries)	SCCF	4.50
					Global - CCA Facility (6 countries)	DFATD	1.06
					Global—supporting LDCs with NAPs	LDCF	1.00

Status of UNDP-supported Adaptation Initiatives *(continued)*

Region	Country	Source of Funds	Grant (US\$M)
6. Under Implementation - (continued) <i>(by Country with UNDP support)</i>			
Latin America & Caribbean	Colombia	AF	7.85
	Ecuador	SCCF	3.00
	Grenada	Non-GEF	2.90
	Haiti (2)	DFATD/LDCF	6.20
	Honduras	AF	5.18
	Nicaragua	AF	5.70
	Uruguay	SPA	0.98
Pacific	Cook Islands	AF	4.96
	Papua New Guinea	AF	6.02
	Regional	DFAT/SCCF	20.99
	Samoa (4)	AF/LDCF	14.40
	Solomon Islands	AF	5.10
	Tuvalu	DFAT/LDCF	8.57
7. Completed			
Africa	Ethiopia	SCCF	1.00
	Mozambique	SCCF	0.96
	Namibia	SPA	0.96
	Tanzania	SCCF	1.00
	Zimbabwe	SCCF	0.98
Asia	Bhutan	LDCF	3.45
	Cambodia	LDCF	1.85
Europe & Central Asia	Albania	SPA	0.98
	Armenia	SPA	0.90
	Hungary	SPA	0.99
Global	Global (ALM platform)	SPA	0.72

**Note: This table does not include the 20 projects under the Africa Adaptation Programme (AAP) funded by the Government of Japan (GOJ). The completed AAP projects are reflected in the graph on page 1.*

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Acronyms

AF	Adaptation Fund
AFBSEC	Adaptation Fund Board Secretariat
BMUB	Germany's Federal Ministry for the Environment, Nature Conservation, Building, and Nuclear Safety
DFAT	Department of Foreign Affairs and Trade - Government of Australia
DFATD	Foreign Affairs, Trade and Development - Government of Canada
EWS	Early Warning Systems
GEF	Global Environment Facility
GEFSEC	Global Environment Facility Secretariat
GOF	Government of Flanders
GOJ	Government of Japan
LDC	Least Developed Country
LDCF	Least Developed Countries Fund
NAP	National Adaptation Plan
SCCF	Special Climate Change Fund
SIDS	Small Island Developing States
SPA	GEF Trust Fund's Strategic Priority on Adaptation
SPREP	Secretariat of the Pacific Regional Environment Programme
UNDP	United Nations Development Programme
UNDP-ALM	UNDP Adaptation Learning Mechanism platform
UNEP	United Nations Environment Programme
WHO	World Health Organization
WMO	World Meteorological Organisation

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