

BHUTAN

AE:WWF



GREEN
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Project title	Multi-Hazard Early Warning System (MHEWS)				
Result areas	Sector	Total financing, USD	GCF financing, USD	Financial instrument	
Resilience of Most vulnerable people and communities	Public	USD 10 million	USD 10 million	Grant	
Description of specific climate change problem and how the project will address it	Low-levels of adaptation capacity to High Impact Hydro-meteorological Events caused by climate change and the project proposes to enhance the institutional and professional capacity to generate risk-based, user-relevant early warning information, and their application in planning and decision-making in agriculture, water resources management, public health, energy and disaster risks management which will create a more prepared and adaptive society				
Alignment with key country priorities and stakeholders engaged	<ul style="list-style-type: none">•NKRA 6: Carbon Neutral, Climate and Disaster Resilient Development enhanced•NKRA8: Food and Nutrition Security ensured				

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Activities

- Enhancement of hydro-met observational networks in high-risk/highly vulnerable areas and other climate-sensitive area;
- Develop a central database for collection, processing, and archiving of historical climate and hydrological data, forecasts, projections, water and hydrological data, cryosphere data and guidelines for their application
- Develop and set up National Climate Data and Information Centre (NCDIC), National Hydrological Data and Information Centre (NHDIC) ;
- Enhancement of the forecasting capabilities of the National Weather and Flood Warning Centre (NFWWC) ;
- Strengthening governance arrangements and coordination/communication mechanisms ;
- Capacity building of users at the national and local levels on use of climate information;
- Enhancement of climate applications supports mechanisms, including strengthening of the multi-hazard systems.

Expected outcomes

- Integrated monitoring and early warning infrastructure and communication to manage risks due to hydro-meteorological events ;
- Generating high-impact products and services through transfer of technology ;
- Enhancing user capacity for efficient climate application

Paradigm shift potential

Introduction of impact-based forecasting, central database web/GIS-based platform and DSS/tools, synergized SOPs, and innovative dissemination mechanisms (e.g. mobile app, NCOFs) will help NCHM frame forecasts in formats that are easily understood and acted on by institutional and community end-users, to increase community resilience and adaptive capacities. The project takes a capacity building approach of stakeholder inclusion, from the model and DSS/tool development to testing in an operational environment, model and tool transfer, and backup operational support from RIMES until systems, tools, and product application are fully integrated into NCHM and institutional and end-user environments.