10 best bet innovations for adaptation in agriculture: A supplement to the UNFCCC NAP Technical Guidelines

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Abstract/Description
Faced with the triple challenges of achieving food security, adapting to the impacts of climate change, and reducing emissions, agriculture has been prioritized by countries as a sector for climate action. The national process of formulating and implementing National Adaptation Plans, which gives effect to the ambitions set out in the Intended Nationally Determined Contributions of countries, is a key instrument that will not only facilitate access to resources, but also advance best practice and implementation of proven and effective adaptation actions. In order to support countries in the elaboration of their National Adaptation Plans, this paper aims to tap into agricultural research for development conducted by CGIAR Centers and research programs, to identify best bet innovations for adaptation in agriculture, which can help achieve food security under a changing climate, while also delivering co-benefits for environmental sustainability, nutrition and livelihoods.
In the report titled, '10 Best Bet Innovations for Adaptation in Agriculture,' and a series of blog posts, the CGIAR members outline adaptations for agriculture to achieve the linked goals of achieving food security under a changing climate while delivering mitigation, environmental, health and livelihood co-benefits. The publication, which is a part of the UNFCCC National Adaptation Planning (NAP) Technical Guidelines, includes descriptions of the following innovations: "Agroforestry to diversify farms and capture carbon; Aquaculture to enhance nutrition and diversify incomes; Stress-tolerant The Paddy Rice Component of the Climate and Clean Air Coalition's (CCAC) Agriculture Initiative—the paddy rice component, in short—forms part of the Agriculture Initiative of the CCAC hosted by the United Nations Environment Programme (UNEP). A goal of the CCAC is to disseminate best practices for minimizing the emission of short-lived climate pollutants (SLCPs) from agriculture while enhancing productivity, ensuring food security, and improving livelihoods. The paddy rice component aims to provide technical and policy guidance for national governments to implement GHG mitigation options ... 10 Best bet innovations for adaptation in agriculture: A supplement to the UNFCCC NAP Technical Guidelines. Meet Our Partners. The United Nations Framework Convention on Climate Change (UNFCCC) established the national adaptation plan (NAP) process as a way to facilitate adaptation planning in least developed countries (LDCs) and other development countries. Its objectives are: (a) The NAP process is an opportunity for countries to address their medium and long-term adaptation needs, building on the experiences of the NAPA process which focused on urgent and immediate adaptation needs. Under this process, countries are expected to: Advance from NAPA experiences and arrangements into comprehensive, longer-term planning for adaptation; Consolidate overall adaptation activities and embark on a coherent and strategic adaptation approach VertiCrop is a proprietary agriculture technique that has been deemed as one of the World's Greatest Inventions by TIME Magazine in 2009. This patent-pending technology was designed and developed so that food could be grown naturally in the environment of bustling urban areas. This proprietary method offers quite a paradigm shift in food production and sustainable farming methods. In addition, the sophisticated analysis will further allow harvesting the crops at the right time when its flavor is at its best. The produce cultivated through Bowery's system utilizes 95% less water compared to the traditional farming. 12. Skyfarm – A Wind-Powered Vertical Farming Tower.