

**Vietnam Short Country Report on
“Climate Change Adaptation and Water Nexus”
(Presentation on the 9th Meeting of the GEOSS Asian Water Cycle
Initiative International Coordination Group (AWCI ICG))**



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Tokyo, Japan, 29 October 2012
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Climate change assessment and adaptation in Vietnam

Recognizing potential impact of climate change, the Government of Vietnam has approved the National Target Program to Respond to Climate Change. One of the important activities of the Programs is to develop and update climate change scenarios. This is the basis for ministries, sectors and provinces / cities to assess climate change impacts, to develop and implement their respective responding action plans.

On 9 January 2012, Prime Minister has decided to set up the National Committee on Climate Change (NCCC)

On 7 March 2012 published “National Strategy on Climate Change and CC, sea level rise Scenarios for Vietnam”, as updated scenario for 2009 version, built on GHG emissions scenarios: low (B1), average (B2, A1B), high (A2, A1FI). According to this document (3 scenarios):

Temperature: By the end of the 21st century, average temperature in Vietnam is expected to increase about, respectively, 1.6 - 2.2°C; 2 - 3°C and 2.5 – 3.7°C

Rainfall: Total annual rainfall and wet season's rainfall would increase 6%, 2-7% and 2-10%; while dry season's rainfall would decrease.

Sea Level: Sea level is expected to rise about respectively to 3 scenarios: 49-64cm (B1), 57-73cm (B2) and 78-95cm (A1FI).

Climate change adaptation activities and water nexus projects in Vietnam

- Vietnam plans to spend over 1.95 trillion VND for the National Climate Change Adaptation Programme from now till 2015. Around half of the planned budget will be mobilized from foreign sources, according to a report on the climate change adaptation programme.
- The State budget will cover 30 percent of the remaining half of the fund and an additional 20 percent will be drawn from local budgets and private economic sectors.
- Project “High-resolution climate projection for Vietnam”, 2011-2016, funded by the Australian Government’s aid program, in collaboration with Vietnam Institute of Meteorology, Hydrology and Environment (IMHEN) and Hanoi University of Science (HUS); with 6 components, aimed to help Vietnam better understand the likely effects of climate change throughout the country; improving knowledge of climate change impacts will help identify the people and sectors at risk and, in doing so, will support Vietnam in the challenging task of prioritizing its climate change response.
- ODA project “Building technology in urban flood & inundation forecasting to be applied for operational early warning system in the Ha Noi City, Viet Nam “, 2012-2014, implementing by NHMS, with financial support from Nordic Development Fund and technical support from DHI. Considering CC impact to urban flood risk management.

List of priority projects and programs on CC response

Total estimated budget of 176 060 billion VND (~8,8 billion USD), of which 149651 billion VND from ODA, and 26409 billion VND as national budget, for 133 projects/ programs covering sectors as follow:

+ **Irrigation:** 138188 billion VND for Projects of constructional works in estuary areas, tidal control, sea water intrusion prevention (12 projects for 12540 billion VND)

- River dyke system improvement program (30 projects for 9110 billion VND); -
- Sea dyke system improvement program (153 projects for 16870 billion VND); -
- Community shelter construction in case of disaster (418 billion VND).
- Inundation prevention in big cities (4 projects for 24720 billion VND).
- Irrigation constructional works (12 projects for 58400 billion VND)

+ **Forestry:** 6 projects for 10700 billion VND, covering a forestation, forest improvement for salt prevention and coastal sand prevented belt, GHG reduction, sustainable forest management and development.

+ **Fishery:** 36 projects for 20121 billion VND covering typhoon shelter areas for boats (30 projects), fishery sector infrastructure development, storm information and forecast in sea areas.

+ **Agriculture and rural:** - Crop: 111 billion VND for projects in bio fuel development (planting trees as bio materials) - Animal husbandry: 5710 billion VND for extending biogas program development nationwide. Re-settlement in disaster prone areas: 17 projects for 1230 billion VND

Thank you for your attention!

