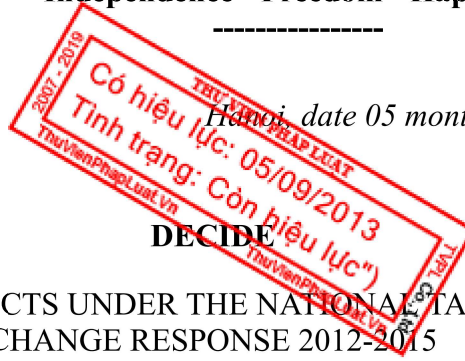


**MINISTRY OF NATURAL
RESOURCES AND
ENVIRONMENT**

No. 1651/QĐ-BTNMT

SOCIALIST REPUBLIC OF VIETNAM
Independence - Freedom - Happiness



Issued on: date 05 month 09 year 2013

DECIDE

APPROVING COMPONENT PROJECTS UNDER THE NATIONAL TARGET PROGRAM ON CLIMATE CHANGE RESPONSE 2012-2015

MINISTER OF NATURAL RESOURCES AND ENVIRONMENT

Pursuant to the Government's Decree No. 21/2013/ND-CP dated March 4, 2013 stipulating the functions, tasks, powers and organizational structure of the Ministry of Natural Resources and Environment;

Pursuant to Decision No. 135/QĐ-TTg dated 04/11/2009 of the Prime Minister on the promulgation of regulations on management and administration of the implementation of national target programs;

Pursuant to Decision No. 1183/QĐ-TTg dated August 30, 2012 of the Prime Minister approving the National Target Program on Climate Change Response for the period 2012-2015;

At the request of the Director of the Department of Hydrometeorology and Climate Change and the Director of the Departments: Planning, Finance,

DECIDE:

Article 1. Approving 03 component projects under the National Target Program on Climate Change Response in the period of 2012-2015, including:

1. Component Project No. 1: "Assessment of the level of climate change and sea level rise".

1.1. Objectives:

- Assess the level of climate change and sea level rise;
- Update the detailed climate change and sea level rise scenarios to each locality in Vietnam;
- Create a database system on climate change, sea level rise associated with high-precision elevation numerical models and geographic and remote sensing information systems for policy making and planning for socio-economic development from the central to local levels.

1.2. Main contents and tasks:

- Assessing and forecasting the changing trend of temperature, precipitation and sea level by 2100;
- Update the scenario of climate change and sea level rise for Vietnam, in detail to each locality;
- Develop and complete high-precision elevation numerical models in the plains and coastal areas of Vietnam for research and assessment of impacts of climate change and sea level rise;
- Develop a monitoring system for climate change and sea level rise for Vietnam.

1.3. Main results:

- Report on the changing trend of temperature, precipitation and sea level up to 2100;
- Scenarios of climate change and sea level rise for Vietnam in detail to each locality;
- High-precision elevation numerical modeling in the plains and coastal areas of Vietnam;
- Climate change and sea level rise monitoring system for Vietnam.

1.4. Implementation period: from 2012 to 2015.

1.5. Management and implementation agency: Ministry of Natural Resources and Environment.

1.6. Total budget: VND 400 billion, of which:

- Central budget: VND 100 billion;
- Foreign budget: VND 300 billion.

1.7. Implementation organization:

The Ministry of Natural Resources and Environment shall assume the prime responsibility for, and coordinate with ministries, sectors and People's Committees of provinces and centrally-run cities in, organizing the implementation.

2. Component Project No. 2 "Development and implementation of action plans to respond to climate change".

2.1. Objectives:

- Update and implement action plans to respond to climate change at ministries, sectors and localities, complete a number of pilot models to adapt to climate change and mitigate greenhouse gas emissions as a basis for evaluating results, learning from experiences, perfect and select some suitable models for replication.

2.2. Main contents and tasks:

- Assessing the impacts of climate change and sea level rise on areas directly affected by climate change and sea level rise; identify effective responses to climate change impacts on the basis of climate change scenarios, sea level rise and socio-economic development orientations in each period;
- Update action plans to respond to climate change of ministries, sectors and localities, focusing on reviewing, updating, adjusting and supplementing strategies, programs, master plans and development plans of each sector and each field taking into account climate change factors; identify a number of key tasks in stages and propose organizational solutions for implementation;
- Implementing a number of key tasks identified in the climate change response action plans of ministries and two pilot provinces including Quang Nam and Ben Tre, including piloting a number of climate change adaptation models and mitigating greenhouse gas emissions in sectors, sectors directly affected by climate change and sea level rise such as agriculture, forestry, land use, water resources, energy, transportation, construction, poverty reduction and social security; prioritize a number of localities to pilot the planting, restoration and protection of coastal mangroves in order to prevent erosion, enhance protection, climate regulation, coastal ecosystem protection and create livelihoods for indigenous people; models of domestic water supply to some mountainous localities in conditions of increased drought.

(Details in Appendix No. 01 attached to this Decision).

2.3. Main results:

- Reports on assessment of impacts of climate change and sea level rise on each major area directly affected by climate change and sea level rise by ministries, sectors and localities;
- Action plans to respond to climate change of ministries, sectors and localities shall be updated, clearly stating the results of reviewing, updating, adjusting and supplementing strategies, programs, master plans and development plans of each sector and each field taking into account climate change factors; key tasks to be implemented in each stage and organizational solutions to implement;
- Some models of adaptation to climate change and mitigation of greenhouse gas emissions in ministries and sectors, Quang Nam and Ben Tre provinces;
- Newly planted and restored coastal mangroves incorporating sustainable livelihood models for indigenous peoples; domestic water is supplied to some dry areas in mountainous areas;

2.4. Implementation period: From 2012 to 2015.

2.5. Management agency: Ministry of Natural Resources and Environment.

2.6. Implementing agencies: ministries, branches and localities (*details in Appendix No. 01 attached*).

2.7. Total budget: VND 1,110 billion, of which:

- Central budget: VND 630 billion;
- Local budget: VND 87 billion;
- Foreign budget: VND 393 billion.

2.8. Implementation organization.

- Ministry of Natural Resources and Environment:

+ Guide ministries, sectors and localities to implement the project in accordance with current regulations on management of projects under the National Target Program;

+ Coordinate with ministries, sectors and localities to review typical pilot models, multi-objective, bring immediate as well as long-term benefits, in accordance with the program capital for implementation.

- Project implementing agencies:

+ Reviewing, formulating and implementing mechanisms and policies to ensure the objectives of responding to climate change; direct, inspect and urge the implementation of assigned tasks in accordance with the objectives of the Project and ensure efficiency and avoid loss and waste;

+ Allocate local budgets to implement the project in accordance with commitments;

+ Periodic reports on the implementation of the Project.

3. Component Project No. 3: "Capacity building, communication and monitoring and evaluation of program implementation".

3.1. Objectives:

- Improve the capacity of state management of climate change;

- Capacity building for international cooperation on climate change;
- Raise public awareness about climate change.

3.2. Main contents and tasks:

- Reviewing, updating, formulating and promulgating institutions and policies to improve the capacity of state management of climate change and encourage and mobilize international donors to invest resources and technologies for climate change response;
- Organizing activities of negotiating, learning and exchanging international experiences on climate change, implementing bilateral and multilateral cooperation, mobilizing international funding;
- Develop and implement communication and awareness programs on climate change;
- Develop education and training programs on climate change and disaster prevention;
- Inspect, monitor, evaluate and manage the implementation of the Program.

(Details in Appendix No. 02 attached to this Decision).

3.3. Main results:

- Institutions and policies on state management of climate change and mechanisms to encourage and mobilize international donors to support Vietnam in effectively responding to the impacts of climate change are implemented;
- Awareness and basic knowledge about climate change of civil servants, state employees, students and communities are strengthened;

3.4. Implementation period: From 2012 to 2015.

3.5. Management agency: Ministry of Natural Resources and Environment.

3.6. Implementing agency:

- Ministries: Natural Resources and Environment, Information and Communications, Education and Training;
- Provinces and centrally-run cities.

3.7. Total budget: VND 261 billion, of which:

- Central budget: VND 40 billion;
- Local budget: VND 66 billion;
- Foreign budget: VND 155 billion.

3.8. Implementation organization:

- Project implementing agencies:
 - + Direct, inspect and urge the implementation of assigned tasks in accordance with the project's objectives and ensure efficiency and avoid loss and waste;
 - + Coordinate with the Ministry of Information and Communications in broadcasting documentaries on climate change on local television stations;

- + Actively mobilize more resources to perform tasks;
 - + Allocate local budgets to implement the project in accordance with commitments;
 - + Periodic reports on the implementation of the Project.
- Ministry of Natural Resources and Environment: Assume the prime responsibility for, and coordinate with Vietnam Television, Voice of Vietnam, central news agencies and newspapers in, formulating and implementing public education programs on policies and laws of the Party and the State on climate change; propagating and disseminating knowledge and skills to adapt to climate change and prevent natural disasters.
- Ministry of Information and Communications: Assume the prime responsibility for, and coordinate with ministries, sectors and localities in, developing communication activities, raising awareness and knowledge for the nationwide press system on climate change, developing scripts for documentaries on climate change, agreeing with the Ministry of Natural Resources and Environment and relevant ministries before approving them. made and broadcast on television systems from central to local.
- Ministry of Education and Training: Assume the prime responsibility for, and coordinate with ministries, sectors and localities in, formulating programs and training curricula on climate change for students at all levels, agreeing with the Ministry of Natural Resources and Environment on the program framework and outline before organizing its implementation.

Article 2. This Decision takes effect from the date of signing.

Article 3. The Director of the Department of Hydrometeorology and Climate Change, the Director of the Departments of Planning, Finance and heads of units under the Ministry of Natural Resources and Environment are responsible for implementing this Decision./.

MINISTER

Recipients:

- Prime Minister, Deputy Prime Ministers;
- National Committee on Climate Change;
- Ministries, ministerial-level agencies, agencies under the CP;
- People's Committees of provinces and centrally-run cities;
- Units under the Ministry of Natural Resources and Environment;
- Luu: VT, KH, TC, IA.

Nguyen Minh Quang

APPENDIX NO. 01

LIST OF TASKS OF COMPONENT PROJECT NO. 2: DEVELOPMENT AND IMPLEMENTATION OF ACTION PLANS TO RESPOND TO CLIMATE CHANGE UNDER THE NATIONAL TARGET PROGRAM ON CLIMATE CHANGE RESPONSE FOR THE PERIOD 2012 - 2015

(Attached to Decision No. 1651/QĐ-BTNMT dated September 05, 9 of the Minister of Natural Resources and Environment)

Tt	List of tasks	Expected funding (Billion VND)	Main coordinating bodies	Implementation time
1	Ministry of Natural Resources and Environment	250	Ministry of Agriculture and Rural	2012-2015

<ul style="list-style-type: none"> - Assessing the impacts of climate change and sea level rise on water resources in the Red and Mekong river basins, proposing protection solutions; - Assessing the impacts of climate change and sea level rise on groundwater resources in the Mekong Delta and some key regions, proposing protection solutions; - Assessing the impacts of climate change, especially sea level rise on the fluctuations in area and land use structure in the northern midlands and mountainous areas, the South Central coast and some other key areas in the territory of Vietnam; - Strengthen the capacity to forecast and warn of dangerous weather phenomena (storms, floods, high tides, heavy rains, flash floods, pipe floods, hot sun, severe cold, cold) in the Mekong Delta, northern mountainous areas, central and central highlands; - Investigating, surveying and developing a map of flash flood risk zoning in the Central and Central Highlands and building a pilot system to serve warning localities at high risk of flash floods in service of planning and directing disaster prevention and control; - Develop solutions to conserve biodiversity, effectively control methane and other greenhouse gases from waste landfills; - Develop and implement the Mekong Delta Delta Plan to adapt to climate change; - Develop a climate early warning system for Vietnam; - Update the Ministry's Climate Change Action Plan. 		<p>Development, Ministry of Industry and Trade, Ministry of Planning and Investment, localities</p>	
<p>2 Ministry of Agriculture and Rural Development</p> <ul style="list-style-type: none"> - Assessing the impacts of climate change, sea level rise on the area, productivity, output of coastal aquaculture, production sectors of the agricultural sector, desertification and land degradation in Vietnam; - Piloting a number of drought-tolerant, waterlogged and salt-tolerant hybrid rice and 	<p>50</p>	<p>Ministry of Natural Resources and Environment, Ministry of Industry and Trade, Ministry of Transport, Ministry of Construction, Ministry of</p>	<p>2012-2015</p>

<p>maize varieties in northern mountainous areas, coastal areas and the Mekong Delta;</p> <ul style="list-style-type: none"> - Identify solutions to shift the structure of aquaculture objects, seasons and aquatic breed structure in accordance with and adapt to climate change; piloting a model for transforming aquaculture objects to adapt to climate change and sea level rise; - Develop an early warning system for food insecurity in the context of climate change in the Red River Delta and Mekong Delta by 2030; - Develop models linking livestock, cultivation and fisheries in order to reuse by-products and reduce greenhouse gas emissions in agricultural production in the Northern Delta region; - Develop integrated and sustainable management models, develop agroforestry, improve the livelihoods of people in areas at high risk of desertification such as the central coastal region, northern mountainous areas and central highlands; - Building a model for planting and restoring watershed protection forests in the Northwest and Central Highlands; - Develop a model for developing coastal forests against wind, sand and preventing desertification in order to adapt to climate change in the South Central region; - Develop and implement a number of pilot models of rice cultivation in the Mekong Delta region to save water and reduce greenhouse gas emissions; - Update the Ministry's Climate Change Action Plan. 		<p>Planning and Investment, Ministry of Labor, War Invalids and Social Affairs, localities</p>	
<p>3 Ministry of Industry and Trade</p> <ul style="list-style-type: none"> - Assessing the impacts of climate change and sea level rise on a number of directly related mineral extraction and processing industries; - Develop plans to control greenhouse gas emissions in a number of high-emission industries; 	<p>40</p>	<p>Ministry of Natural Resources and Environment, Ministry of Planning and Investment, ministries, sectors and localities</p>	<p>2012-2015</p>

	<ul style="list-style-type: none"> - Piloting a number of projects in the field of thermal power to reduce greenhouse gas emissions, towards a low-carbon economy and green growth; - Update the Ministry's Climate Change Action Plan. 			
4	<p>Ministry of Transport</p> <ul style="list-style-type: none"> - Assessing the impacts of climate change and sea level rise on a number of areas directly affected by climate change (roads, railways, waterways) managed by the Ministry; - Identify solutions to use low-greenhouse gas emissions for vehicles; - Piloting the implementation of a number of greenhouse gas emission mitigation models in the field of road transport and inland waterways; - Update the Ministry's Climate Change Action Plan. 	40	Ministry of Natural Resources and Environment, Ministry of Industry and Trade, localities	2012-2015
5	<p>Ministry of Construction</p> <ul style="list-style-type: none"> - Assessing the impacts of climate change, sea level rise on urban technical infrastructure directly affected by climate change and sea level rise; - Identify solutions to adapt to climate change and sea level rise for urban areas and coastal cities; - Implementing a number of pilot projects to reduce greenhouse gas emissions in the production of construction materials and cement production; - Update the Ministry's Climate Change Action Plan. 	30	Ministry of Natural Resources and Environment, Ministry of Agriculture and Rural Development, Ministry of Industry and Trade, Ministry of Transport, localities	2012-2015
6	<p>Ministry of Planning and Investment</p> <p>Develop and guide the implementation of the standard framework to integrate climate change into socio-economic development strategies, programs, master plans and plans for the period after 2015.</p>	5	Ministry of Natural Resources and Environment, ministries, sectors and localities	2012-2015
7	<p>Ministry of Public Security</p> <ul style="list-style-type: none"> - Assessing the impacts of climate change and sea level rise on the technical infrastructure of 	10	Ministry of Natural Resources and Environment,	2012-2015

	<p>the police sector;</p> <ul style="list-style-type: none"> - Develop training programs and curricula, improve capacity for rescue and rescue and rapid response in emergencies related to climate change and natural disasters; - Update the Ministry's Climate Change Action Plan. 		<p>Ministry of Defense, ministries, branches and localities</p>	
8	<p>Ministry of Defense</p> <ul style="list-style-type: none"> - Assessing the impacts of climate change and sea level rise on military-technical infrastructure; - Strengthening search and rescue capacity and equipment to proactively respond to climate change and prevent natural disasters; - Develop training programs and curricula, improve capacity for rescue and rescue and rapid response in emergencies related to climate change and natural disasters; - Update the Ministry's Climate Change Action Plan. 	30	<p>Ministry of Natural Resources and Environment, Ministry of Public Security, ministries, branches and localities</p>	2012-2015
9	<p>Ministry of Health</p> <ul style="list-style-type: none"> - Assessing the impacts of climate change and sea level rise on the fluctuations in malaria distribution zones in the coastal areas of the Mekong Delta and identifying response solutions; - Update the Ministry's Climate Change Action Plan. 	5	<p>Ministry of Natural Resources and Environment, Ministry of Labor, War Invalids and Social Affairs, ministries, sectors and localities</p>	2012-2015
10	<p>Ministry of Labor, War Invalids and Social Affairs</p> <ul style="list-style-type: none"> - Assess the impacts of climate change, sea level rise on poor people's livelihoods, national poverty reduction targets and employment issues; - Identify solutions to ensure sustainable livelihoods for the poor in rural areas, ethnic minorities in the northern mountainous areas and the Mekong Delta in the context of climate change and sea level rise; - Piloting a sustainable livelihood model for the poor in rural areas and ethnic minorities in 	25	<p>Ministry of Natural Resources and Environment, Ministry of Agriculture and Rural Development, Ministry of Health, ministries, sectors and localities</p>	2012-2015

	northern mountainous areas; - Update the Ministry's Climate Change Action Plan.			
11	Ministry of Culture, Sports and Tourism - Assessing the impacts of climate change, sea level rise on cultural heritages and tourist areas in coastal areas directly affected by climate change and sea level rise; - Identify solutions to preserve cultural heritages and develop tourism in coastal areas in conditions of climate change and sea level rise; - Update the Ministry's Climate Change Action Plan.	5	Ministry of Natural Resources and Environment, Ministry of Planning and Investment, ministries, sectors and localities	2012-2015
12	Quang Nam Province - Assessing the impacts of climate change and sea level rise on areas directly affected by climate change and sea level rise; - Planting, restoring and protecting watershed forests in order to retain water, prevent washing - landslides, limit the harmful effects of floods; mangroves to prevent coastal erosion, enhance protection, climate regulation, and ecosystem protection; - Building, consolidating and upgrading irrigation systems in order to stabilize the life and production of communities in the face of increasing storms, floods and droughts; - Upgrading and reinforcing traffic routes combined with flood prevention and rescue in the context of increasing natural disasters due to climate change; - Building and upgrading multi-purpose houses to protect people's lives and property from floods, storms and sea level rise; - Update the Province's Climate Change Action Plan.	110	Ministry of Natural Resources and Environment, Ministry of Planning and Investment, relevant ministries and sectors	2012-2015
13	Ben Tre Province - Assessing the impacts of climate change and sea level rise on areas directly affected by climate change and sea level rise;	110	Ministry of Natural Resources and Environment, Ministry of Planning and Investment,	2012-2015

<ul style="list-style-type: none"> - Planting, restoring and protecting mangroves in order to prevent coastal erosion, enhance protection, climate regulation and ecosystem protection; - Building, consolidating and upgrading irrigation systems and domestic water supply systems in order to stabilize the life and production of communities in the face of rising tides, salinization and floods; - Invest in and develop biogas systems for power generation, contributing to adapting to sea level rise and mitigating greenhouse gas emissions; - Building and upgrading multi-purpose houses to protect people's lives and property from floods, storms and sea level rise; - Update the Province's Climate Change Action Plan; 		<p style="text-align: center;">relevant ministries and sectors</p>	
<p>14 Provinces and centrally run cities</p> <ul style="list-style-type: none"> - Update the action plan to respond to climate change of each locality; which focuses on reviewing, updating, adjusting and supplementing strategies, programs, master plans and development plans of each sector and each field taking into account climate change factors; implement a number of key tasks, urgent priorities in each stage as well as organizational solutions for implementation; - Pilot implementation of a number of projects: planting, restoring and protecting coastal mangroves to meet the goals of climate change adaptation and greenhouse gas emission reduction, including: preventing erosion, enhancing protection, protecting coastal ecosystems, enhancing CO2 absorption and livelihoods for people in some coastal localities; provide domestic water for some localities in mountainous areas with high levels of drought. 	<p style="text-align: center;">400</p>	<p style="text-align: center;">Ministry of Natural Resources and Environment, Ministry of Planning and Investment, relevant ministries and sectors</p>	<p style="text-align: center;">2014-2015</p>

APPENDIX NO. 02

LIST OF TASKS OF COMPONENT PROJECT NO. 3: CAPACITY BUILDING, COMMUNICATION AND MONITORING AND EVALUATION OF THE IMPLEMENTATION OF THE PROGRAM UNDER THE NATIONAL TARGET PROGRAM ON CLIMATE CHANGE RESPONSE IN THE PERIOD 2012 - 2015
(Attached to Decision No. 1651/QĐ-BTNMT dated September 05, 9 of the Minister of Natural Resources and Environment)

Tt	List of tasks	Expected funding (Billion VND)	Main coordinating bodies	Implementation time
1	<p>Ministry of Natural Resources and Environment</p> <ul style="list-style-type: none"> - Review, update, develop and promulgate policies to improve the capacity of state management of climate change and encourage and mobilize international donors to invest resources and technologies for climate change response; - Organizing activities of negotiating, learning and exchanging international experiences on climate change, implementing bilateral and multilateral cooperation, mobilizing international funding; - Formulate and implement public education programs on policies and laws of the Party and the State on climate change and propagate and disseminate knowledge and skills to adapt to climate change and prevent natural disasters; - Inspect, monitor, evaluate and manage the implementation of the Program. 	20	Ministries, branches and localities	2012-2015
2	<p>Ministry of Information and Communications</p> <ul style="list-style-type: none"> - Develop and implement communication activities, raise awareness and knowledge for the nationwide press system on climate change; - Develop and organize the broadcast of documentaries on climate change on the television system from central to local. 	25	Ministry of Natural Resources and Environment, localities	2012-2015
3	<p>Ministry of Education and Training</p> <p>Develop programs, compile curricula, teaching and learning materials; design lectures, models and teaching tools illustrating climate change and the impacts of climate change in education and training programs at all levels.</p>	25	Ministry of Natural Resources and Environment, Ministry of Information and Communications, localities	2012-2015
4	<p>Provinces and centrally-run cities</p> <p>Develop and implement communication activities, raise awareness about climate</p>	191	Ministry of Natural Resources and Environment,	2014-2015

change for management apparatus at all levels and communities in provinces and cities

Ministry of Information and Communications