RÉPUBLIQUE FRANÇAISE
Liberté
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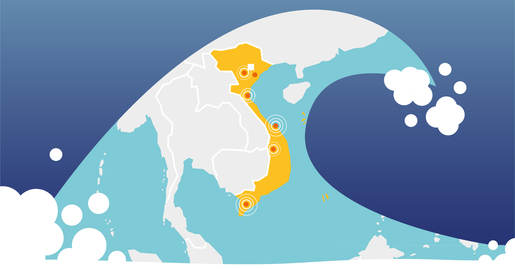
AFD
AGENCE FRANÇAISE DE DÉVELOPPEMENT

Vietnam
ON THE FRONT LINES OF CLIMATE CHANGE



More than 3,200 km of coastline
➡ risk of extreme weather events, from floods and typhoons to drought, storms and coastal erosion

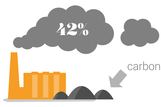
in 2019
96.3 million inhabitants

by 2030
120 million inhabitants

residing mainly in the Red River Delta and the Mekong Delta

Deforestation is threatening biodiversity
and damaging mangrove forests, which provide natural protection against rising sea levels and help reduce emissions

An economy that is still highly dependent on carbon:
42% of the country's electricity production capacity comes from coal-fired power stations



The Mekong Delta, a region under threat
The country's largest agricultural hub:
- **50%** of rice production
- **65%** of aquaculture production
- and **70%** of fruit production

30%
of the Mekong Delta could be submerged in the event of a **50 cm** rise in sea levels

18 to 36%
of the Mekong Delta's surface area affected by saltwater intrusion **by 2050**, due to the relative rise in sea level and sand extraction

Excessive pumping of groundwater
(domestic and agricultural use) and sediment starvation (dams)
➡ Land subsidence

Gemmes: research for climate adaptation
Gemmes* Vietnam is a network made up of more than 60 Vietnamese, French and international researchers responsible for assessing the socio-economic effects of climate change and adaptation strategies.

Actions

1. 
Producing scientific results and maps
to inform discussion of public policy with the Vietnamese government

2. 
Supporting research
and coordinating a network made up of French and Vietnamese researchers

3. 

Publishing strategic reports
intended for use by decision-makers at key moments in international climate negotiations

*Gemmes : General Monetary and Multisectoral Macrodynamics for the Ecological Shift

FOCUS

1 Supporting a just energy transition (JETP)
To accelerate the transition from fossil fuels to clean energy, AFD is supporting renewable energy development and the upgrading of infrastructure in Vietnam.

Extension of the Hoa Binh hydropower plant
The energy generated by this iconic dam accounts for **5%** of national consumption.It also helps prevent flooding, supplies water for irrigation in the dry season, and facilitates river transportation.

Objectives
Increase capacity from 2,000 MW to 2,480 MW to meet growing demand for renewable energy and reduce greenhouse gas emissions.

Se San solar power plant

Objectives
Reduce annual emissions by the electricity sector by **30%** from 240 to 170 megatons by 2030.
Increase the share of renewable energy in the electricity mix from 36% to **47%** by 2030.

FOCUS

2 Adapting to climate change

In the provinces of Ninh Binh, Ha Tinh and the Mekong Delta, AFD is supporting local adaptation to increasingly extreme climatic events and rising sea levels.

Actions

- **Construct** a dam and lock system at Kim Dai (Ninh Binh)
- **Renovate** the irrigation and drainage system (Ha Tinh), protecting the banks of the Can Tho river

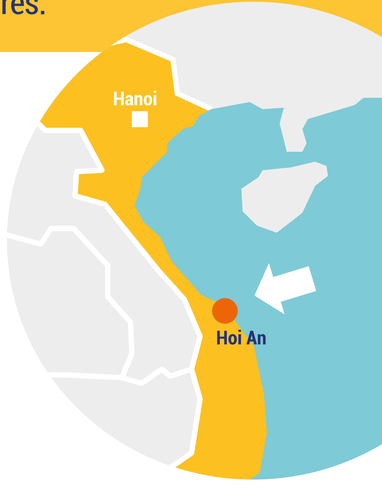
Results

- **Extension** of irrigated areas and improved drainage systems, increase in agricultural and aquaculture production and higher incomes for producers
- **Reduced** risk of flooding
- **Improved** surface water quality and by extension, general hygiene

FOCUS

3 Mitigating the effects of climate change

Since 2008, coastal erosion has been accelerating in the center of the country around the city of Hoi An, a UNESCO World Heritage site. AFD is supporting the implementation of protection measures.



Combating coastal erosion in Hoi An

Actions

- **Implement structural measures:** breakwaters, beach maintenance and the installation of groynes
- **Improve** public policy for integrated coastal area management
- **Raise awareness** of coastal risks and climate change

Objectives

- **Protect** land, homes and infrastructure, and promote socio-economic development
- **Create** jobs for local residents
- **Build capacity** in terms of integrated coastal area planning and management, including coastal monitoring