

Enhancing weather and climate monitoring and data management capacity of MMS for reducing vulnerabilities of climate change Maldives

THE PROJECT

The project strengthened the meteorological monitoring, early warning and disaster prevention network, through the installation of 25 meteorological stations. The stations are solar powered with battery backup and can measure air temperature, relative humidity, air pressure, wind direction and speed, volume and intensity of precipitation. The data received from the meteorological stations is collected, processed and addressed, in real time, from remote areas to the Maldives Meteorological Service, (MMS), in Male'.

BACKGROUND

Sea level rise and long-term changes in the intensity, distribution and paths of tropical cyclones are some of the effects of rising temperatures that make the Maldives a particularly vulnerable country to climate change. Strengthening an early warning system is crucial for the prevention of disasters, especially in a context where, due to the scarce economic and technological resources available, the damage caused by extreme weather events is generally very large.

OBJECTIVE

Strengthen the weather monitoring, early warning and disaster prevention network.

PERFORMED ACTIVITIES

- [Tender for the supply and installation of specialized equipment and related services for the construction of 25 automatic meteorological stations.](#)
- Selection, by the Maldives Meteorological Center, (MMS), of the islands on which to install the meteorological stations.
- Installation and maintenance of the meteorological station system, meeting the requirements of the World Meteorological Organization, (WMO), and connected to the monitoring centre.
- Implementation of a Common Warning Protocol, (international standard format for emergency alerts and public warning).
- Training of MMS personnel in the following areas: climate modeling, short-term weather forecasting and equipment maintenance.

SUBJECTS

Promoters:

- Italian Ministry of the Environment, Land and Sea
- Ministry of Environment and Energy of the Republic of Maldives

Actuators:

- Maldives Meteorological Service, (MMS)
- ENEA
- CAE – Innovation for a safer world, (tender winner)

DURATION

October 2016 – May 2019

TOTAL COST OF THE INITIATIVE

€ 1,341,750

Lender: MATTM

Other lenders ---

CONTRIBUTION TO

➡ [NDC Maldives](#): expansion and strengthening of the early warning system to cover the whole territory of the Maldives.

➡ [2030 Agenda](#): Goal 9 - Innovation and infrastructure; Goal 13 - Actions for climate.

OUTPUT

- 25 weather stations, connected to the Maldives Meteorological Service, (MMS), in Male' installed. ✓
- Common Alert Protocol adopted at national level. ✓
- Trained MMS Personnel. ✓