eeef Technical Assistance: project description



Ministry of Defense - Modena Ducal Palace



Location	City of Modena, Emilia Romagna region, Italy	
Beneficiary	Italian Ministry of Defense	
National targets under the "20-	The Italian government owns several historic buildings in Italy. This pilot	
20-20" initiative	project of the Ministry of Defense aims to encourage the Italian governmen	
	to adopt energy efficiency measures in other historic buildings which belong	
	to other public institutions.	
eeef TA Contribution	EUR 340,000	
Project development services	• Technical support in the project development phase, to perform the initial	
financed by eeef	studies and energy audits on public buildings and street lighting	
	infrastructure, defining the minimum energy and cost savings expected.	
	• Legal advice to structure the public procurement process and set up the	
	legal framework regarding the ESCO selection	
	• Definition of a measurement and verification system to monitor the	
	achieved savings during the project imple	
Timeframe for TA	Completed by December 2019	
Description of the envisaged	The project program is primarily addressed to support the energy retrofitting	
investment program	of the Ducal Palace of Modena, owned by the Italian government and	
	currently used by the Ministry of Defense, allowing the building to be more	
	sustainable both from an environmental and economic point of views.	
	Through this project, it will be possible to reduce the building energy	
	consumption and CO2 emissions by 60%-70%, as well as to improve thermal	
	comfort for the building occupants. The planned measures are (i) upgrade of	
	thermal systems with installation of climate control measures, new pipes for	
	the distribution network and improvement of the existing ones and (ii)	
	interventions on the building envelope, to reduce thermal losses via thermal	
	insulation of the internal walls.	
Investment required	Total project volume of EUR 8.1m, which comprises EUR 5.0m for thermal	
	systems upgrade and EUR 3.1m for building renovation.	
Expected results	• Energy savings to be achieved:	
	- Upgrade thermal systems:	3,640 MWh
	- Building Upgrade:	2,427 MWh
	Total:	6,067 MWh
	Greenhouse gas emissions reduced/avoided in total:	
		1,232 tCO ₂
	• Jobs created/sustained:	50 FTEs
eeef's support to the investment	eeef targets to contribute to finance	the investment program.
program		