



## List of Small Projects<sup>1</sup>

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This version is published due to the:

- Addition of project(s)
- Removal of project(s)
- Other

*Completion of projects and update according to the latest available data due to submission of Draft Development Plan 2017-2026 to RAE.*

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<sup>1</sup> As per article 95 of NNGS Administration Code.

<b>Table A. Projects included in Development Plan 2016-2025 and their implementation is ongoing</b>				
<b>No.</b>	<b>Title of the project</b>	<b>Technical Description</b>	<b>Estimated cost (in €)</b>	<b>Estimated completion date</b>
1	Upgrade of LNG Loading Arms at Revithoussa LNG Terminal	The project scope is replacement of electrical and mechanical equipment of the LNG loading arms at Revithoussa LNG Terminal in order the LNG loading to be effected with equipment of modern technology. Latest technology electro pneumatic equipment shall be installed as well.	1.200.000	November 2018
2	Truck Loading Pilot Station	<p>The project refers to the implementation of the 1st truck loading station in Revithoussa The station will be one point for trucks loading with a capacity of 50 m<sup>3</sup> and loading flow of 100 m<sup>3</sup>/h.</p> <p>The project also includes:</p> <ul style="list-style-type: none"> <li>- Measurement of LNG loaded via weighbridge</li> <li>- Control of the truck loading station from the LNG Terminal Control Room and DESFA SAP system for the issuance of invoices and other required documentation</li> <li>- Traffic arrangements within DESFA property as well as on the access road to Revithoussa.</li> </ul>	6.000.000	July 2019
3	2nd Upgrade of Boarding Metering Station (BMS) of Sidirokastro	Replacement of orifice meters with ultrasonic ones, upgrade and automation of subsystems, upgrade of security systems, reverse flow capability (according to Reg. 994/2010 on security of supply).	3.300.000	September 2017

4	Upgrading of electrical and electronic equipment, billing system and equipment SCADA field in stations M/R of 1st generation (1995-2000)	Replacement of the existing equipment for metering, invoicing and signaling of 16 stations due to unavailability of replacement parts and compatibility issues.	3.500.000	December 2017
5	Upgrade of NNGS fixed communications	Installation of new fiber optic multiplexing technology with a capacity of 1-10 Gbps.	4.500.000	January 2018
6	Extensions and upgrades of metering stations of North and East Thessaloniki	The project includes the design, procurement and installation of a 3rd metering line in the in the existing stab out of the station. Also installation of electronic-electrical equipment is included.	2.000.000	October 2017
7	Integrated Information System for Natural Gas	The IISNG consists of: a. The Electronic Information System which allows any interested party to find all the necessary information about the operation and use of the NNGS  b. the Electronic trading system, through which the TSO will manage the secondary market for Transmission Capacity to NNGS or Gasification Capacity of LNG Facility and the secondary gas market in terms of Users or NNGS Customers.	1.500.000	December 2018
8	Upgrade of graphical environment of SCADA in Control Centers	It includes the supply, installation and operation of new management tools, images, graphics, database and alarm system.	1.900.000	June 2019

9	Design, supply and installation of a system design daily gas flow	The establishment of a system for forecasting, planning and control of daily gas flow will provide DESFA the ability to estimate the load of gas that will be transmitted, and increase the level of accuracy forecast. Furthermore it will incorporate a regular review of the progress of the daily planning of gas and will adjust the levels of unexpected consumption or shortages in supply.	197.000	September 2018
10	Upgrade of the system for the corrosion protection of the NNGS	The project refers to the installation of diffusers for induced voltages, metering sensors of the corrosion speed and extension of the existing telemetry system for recording of relevant measurements.	280.000	July 2019
11	Restoration of the visual monitoring field system CCTV	Installation of monitors, recording cameras in the control room of Patima and in the other installations of the company.	65.000	October 2017
12	Installation of M/R Kavala	Installation of a M/R 70/19 in line valve Kavala for the supply of the city of Kavala and nearby areas.	3.900.000	The time completion is dependent on the completion of the downstream Connected System
<b>Total estimated cost</b>		<b>28.342.000 €</b>		

**Table B. projects according to art. 94 par. 5 of NNGS Administration Code  
(New projects)**

No.	Title of the project	Classification of project ( art. 92 par. 4 of NNGS Administration Code)		Technical Description	Estimated cost (in €)	Time schedule
		Projects for the Development of NNGS	Projects for the connection of Users			
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