

GR-Energy

Renewable Energy, Energy Efficiency

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**ΚΑΠΕ
CRES**

CENTRE FOR RENEWABLE
ENERGY SOURCES AND SAVING

GR-Energy: Identity

- ❑ **Programme Title:** GR-Energy
- ❑ **Programme Area:** Renewable Energy Sources, Energy Efficiency, Energy Security
- ❑ **Other Programme areas :** Energy efficiency in the production, distribution and/or end-use of energy, production and/or distribution of energy from renewable sources.
- ❑ **Programme budget:** (75% EEA FM + 25% PIP): ~16 million €.
- ❑ **Special references to the MoU between Greece and EEA:** The Programme supports the implementation of innovative solutions to increase energy production from renewable sources and enhance energy efficiency in public social infrastructure.
- ❑ **The 13 GR-Energy Projects:**
 - ✓ Result in the reduction of CO2 emissions, the reduction of total energy consumption, monetary savings, the slight increase of production from RES, the creation of new jobs and the improvement of the capacity of PPs and other stakeholders, such as public works contractors.
 - ✓ Affect both users and visitors of buildings/infrastructure, which are the Programme's main target groups.
 - ✓ Seek to serve as a platform to achieve wider impact, contributing to increasing the uptake of more energy-efficient buildings and infrastructure in Greece.

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GR-Energy: Key Results [1/2]

□ Currently, the Programme's Project Promoters (PPs) submit final reports on the achievement of the objectives, which will be evaluated by Programme Operator (PO) CRES after the final on-site verifications are gradually conducted until April 2025.

□ According to the current progress, the key indicators mentioned here are anticipated to be surpassed by the results of the 13 projects.

Energy Index Name	Programme Target Value	Achievement Value (tbc)
Estimated annual reduction in CO2 emissions (tonnes)	4.834	5.053
Estimated Cost Savings (€/ year)	537.000	1.008.960
Estimated energy savings (in MWh/year)	4.096	13.974
Estimated increase in renewable energy production in MWh/year	1.250	1.540
Installed capacity for renewable energy production (in MW)	0,95	0,95

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GR-Energy: Key Results [2/2]

- ❑ The GR-Energy Programme is currently being completed with the implementation of 13 remarkable innovative projects in Municipalities, Universities and other public bodies of high interest to local communities throughout Greece in full consistency with the strategy and requirements of the EEA Grants.
- ❑ These 13 Projects contribute to increasing the share of Renewable Energy Sources (RES), reducing CO2 emissions, creating new jobs and stimulating economic activity in green growth.
- ❑ All 13 Projects are now fully integrated and operational and represent ambassador projects at a technical, social and educational level.
- ❑ Despite the significant adversity that arose (pandemic, war in Ukraine, energy crisis and rising prices of energy equipment), PO CRES worked methodically and with the cooperation and support of the EEA grants institutions (FMO, NFP etc.) accomplished the original Programme objectives and achieved a significant absorption of the allocated total resources (>95%) similar to the previous programme period (>90% for the GR-03 Programme).

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GR-Energy: 13 Projects (1/2)

REGION OF CENTRAL MACEDONIA – 2 PROJECTS

- 1. Municipality of Katerini
- 7. Aristotle University of Thessaloniki

REGION OF EASTERN MACEDONIA – THRACE – 3 PROJECTS

- 9. Municipal Water Supply and Sewerage Company of Drama
- 10. Municipality of Orestiada
- 11. Municipality of Kavala

REGION OF THESSALY – 1 PROJECT

- 6. Municipality of Farsala

EAST AEGEAN REGION – 1 PROJECT

- 4. Municipality of Eastern Samos

REGION OF CENTRAL GREECE – 1 PROJECT

- 8. Municipality of Skyros

REGION OF ATTICA – 5 PROJECTS

- 2. Municipality of Moschato-Tavros
- 3. Athens School of Fine Arts
- 5. Agricultural University of Athens
- 12. Municipality of Vari – Voula – Vouliagmeni
- 13. Municipality of Agioi Anargyroi - Kamatero



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GR-Energy: 13 Projects (2/2)

A/A	PROJECT PROMOTER	PROJECT TITLE
1	MUNICIPALITY OF KATERINI	Modern Energy Upgrade of Municipal Stadium and Actions to Reduce the Energy Footprint for the Local Community of Katerini
2	MUNICIPALITY OF MOSCHATO-TAVROS	NZEB Sports Building Infrastructure for the Activation of Citizens of the Municipality of Moschatos – Tavros
3	ATHENS SCHOOL OF FINE ARTS	Smart Building Model & Living Lab Energy Innovation Centre of ASFA at the Delphi Art Station
4	MUNICIPALITY OF EASTERN SAMOS	Upgrade of Iconic Buildings of Samos through RES-EE Interventions and Innovative Actions with Applicability throughout Greek islands
5	AGRICULTURAL UNIVERSITY OF ATHENS	Application of Innovative Green Technologies in an Iconic Building and Facilities of the AUA
6	MUNICIPALITY OF FARSALA	Complete Energy Renovation of the Model Centre for Culture, Education and Innovation in Central Greece
7	ARISTOTLE UNIVERSITY OF THESSALONIKI	Integration of Innovative Energy Technologies into the Central Building Infrastructure of High Use & Footfall of the AUTH
8	MUNICIPALITY OF SKYROS	Smart Application of Innovative RES Interventions and Energy Efficiency Improvement in Buildings & Facilities of the Municipality of Skyros
9	MUNICIPAL WATER SUPPLY- SEWERAGE COMPANY OF DRAMA	Demonstrating Use of Renewable & Alternative Energy Technologies in Social Infrastructures of the Municipal Water Supply – Sewerage Company of Drama
10	MUNICIPALITY OF ORESTIADA	Demonstration projects for the Energy Upgrade of North Evros Municipal Buildings
11	MUNICIPALITY OF KAVALA	Energy Upgrade of the School Complex of Perigiali Municipality of Kavala
12	MUNICIPALITY OF VARI – VOULA - VOULIAGMENI	Energy Upgrades and Installation of RES in buildings of the Municipality of Varis-Voulas-Vouliagmenis under the EEA Financial Mechanism Framework
13	MUNICIPALITY OF AGIOI ANARGYROI - KAMATERO	RES Projects and Energy Upgrade in Municipal Buildings of M.C. Ag. Anargyroi

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GR-Energy: 13 Projects in numbers

- ❑ Approved Budget: 14.384.198,85 €
- ❑ Contracted Budget: 13.352.958,52 €
- ❑ Unrealized scope: 332.217,17 €
- ❑ Total Payments (according to Public Investment Programme): €13,199,145.67 (and €41,736.89 ineligible expenditure with a date later than the end of the payment period 30/05/2024).
- ❑ Absorption rate of allocated resources:
 - % of Payments (Approved budget minus tender discounts minus unrealized scope): 98,85%

GR-Energy: Audits

- ❑ The Financial Audit Committee (EDEL) has conducted 4 audits without any formal recommendations:
 - ✓ Audit number 0920203001: For subproject 1 of the Project entitled "Management Cost of the GR-ENERGY Programme", Audit Period 01/01/2020– 31/12/2020 - Accounting Year 01/01/2019-31/12/2019.
 - ✓ Audit number 0922223001: For subproject 1 of the Project entitled "Management Costs of the GR-ENERGY Programme", Audit Period 01/01/2022– 31/12/2022 - Accounting Year 01/01/2021-31/12/2021.
 - ✓ Audit number 0923233003: In subproject 1 of the Project: "Energy Upgrade of the school complex of Perigiali, Municipality of Kavala", Audit Period 01/01/2023– 31/12/2023 - Accounting Year 01/01/2022-31/12/2022.
 - ✓ Audit number 0924243004: For Subprojects 1 and 3 of the Project: "Demonstration Use of Renewable & Alternative Energy Technologies in Social Infrastructures of DEYA of Drama, Audit Period 01/01/2024– 31/12/2024 - Accounting Year 01/01/2023-31/12/2023.

GR-Energy: On-site Verifications

- ❑ Due to the nature of the Programme, on-site verifications will continue until the end of the Programme as energy consumption data are been collected until now to be reflected by the PPs in the Target Achievement Report.
- ❑ One on-site verification per project is planned to confirm that the PPs have fully complied with the PO CRES guidelines during the previous on-site verifications and to cross-check the achievement of the energy indicators through the data of the installed measuring equipment.
- ❑ So far, the data and assumptions of the PPs are expected to confirm the Programme's energy indicators and achieve the expected results.

GR-Energy: Bilateral Actions (1/2)



GR-ENERGY Bilateral Actions "Visit to Iceland"
4 - 6 September 2024 | National Energy Authority (NEA), Reykjavik, Iceland.

Organization: CRES in the framework of the Bilateral Relations' Action I: Visits to Donor Countries.

Objective: Cooperation with stakeholders in Iceland to exchange know-how in the field of green technologies and compare the policies of the 2 countries for the green transition as well as exploring new possibilities for cooperation.

Participants: Representatives from CRES, PPs, NFP and NEA.

Activities: Presentations by CRES, representatives of 10 PPs and NEA and on-site visits to Geothermal Exhibition and Carbfix.

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GR-Energy: Bilateral Actions (2/2)



GR-ENERGY Bilateral Actions "Visit to Norway"
1 - 3 October 2024 | Norwegian Offshore Wind (NOW), Haugesund, Norway.

Organization: CRES in the framework of the Bilateral Relations' Action III: Visits of the PO to Donor Countries to explore floating Wind Power Development.

Objective: Cooperation with stakeholders in Norway on floating wind energy. Exchange of know-how and experience for an Offshore Technology Test Center with emphasis on floating wind turbines.

Participants: CRES, Hellenic Wind Energy Association (HWEA) and NOW.

Activities: Presentations by CRES, HWEA and NOW and tour of the Maritime Energy Technologies (MET) Centre in Sandvesanden at the Zefyros and TetraSpar floating wind turbine facilities.

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GR-Energy: Publicity

- ❑ GR-Energy Programme Official website: http://eeares.cres.gr/eng/index_eng.htm
- ❑ PPs websites:
 1. The Municipality of Katerini → <https://katerini-eea.eu/en/>
 2. The Municipality of Moschatos-Tavros → <https://moschatou-tavrou-grenergy.eu/en/>
 3. The Athens School of Fine Arts → <https://asfa-eea.eu/en/>
 4. The Municipality of Eastern Samos → <https://samos-eea.eu/en/>
 5. The Agricultural University of Athens → <https://aua-eea.eu/en/>
 6. The Municipality of Farsala → <https://eea-farsala.eu/en/>
 7. The Aristotle University of Thessaloniki → <https://autheea.eu/en/>
 8. The Municipality of Skyros → <https://www.skyros.gr/en/neo/645/eea-grants-programma-isongr-energysin>
 9. The Municipal Water Supply- Sewerage Company of Drama → <https://deyad.gr/eeagrantsgr/>
 10. The Municipality of Orestiada → <https://www.orestiada.gr/>
 11. The Municipality of Kavala → <https://kavala-eea.eu/en/>
 12. The Municipality of Varis – Voulas - Vouliagmenis → <https://www.vvv.gov.gr/index.php/kainotomies-diakriseis-synergasies/eox>
 13. The Municipality of Agioi Anargyroi - Kamatero → <https://agan-eea.eu/en/>

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The GR-Energy Programme

- ❑ Brought tangible and measurable energy, environmental and economic benefits through the demonstrative actions of the 13 integrated Projects.
- ❑ Significantly contributed to local economic development, familiarized residents with sustainable practices, improved the quality of life, and mitigated social and economic inequalities.
- ❑ Strengthened bilateral cooperation between Greece and Donor Countries in the field of Renewable Energy Sources and Energy Efficiency, laying the foundations for further cooperation and development.

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The GR-Energy Programme(1-5)



PV installation on the roof of the Closed Gym of Moschato.



Thermal insulation on the tile roof of the Delphi Art Station of the Athens School of Fine Arts.



Upgrade of road lighting in the area of Pythagorio – Samos.



Parking spaces with PV installation in the Agricultural University of Athens.

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The GR-Energy Programme(2/5)



Heat pumps in the Roussopoulos building of the Agricultural University of Athens.



Installation of LED lighting inside the cultural center of the Municipality of Farsala.



Energy upgrade system at the school buildings of Kavala.



PV installation and hydrogen storage unit at Skyros Biological Treatment Installation.

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The GR-Energy Programme(3/5)



PV installation at the Biological Treatment Installation of Drama.



Hydrogen production unit at the Biological Treatment Installation of Drama.



PV installation at the Social Services Building of Voula.



Heat pump unit at the Municipality of Katerini.

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The GR-Energy Programme(4/5)



PV installation at the Highschool of Vari.



Thermal insulation and energy frames at the 7th Municipal School of Kamatero.



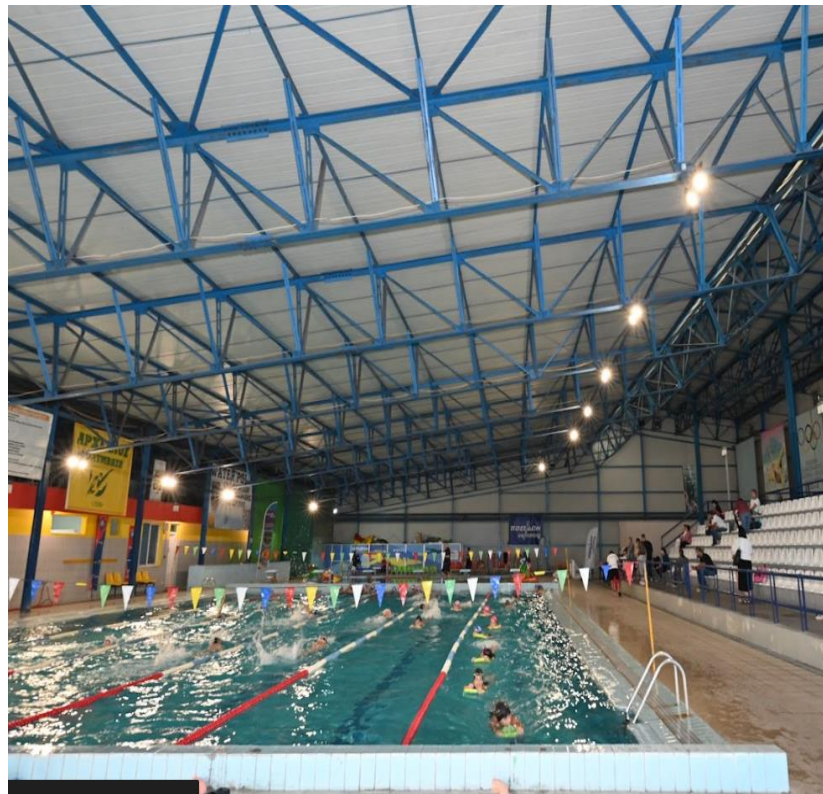
Fan coils inside the school building of Evros.



EV charging station at the Aristotle University of Thessaloniki.

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The GR-Energy Programme(5/5)



LED lighting at the sports centre of Katerini.



Energy upgrade of the Evgenios Evgenidis building in Evros region.



LED lighting at the 8th Primary School of Ag. Anargyroi.

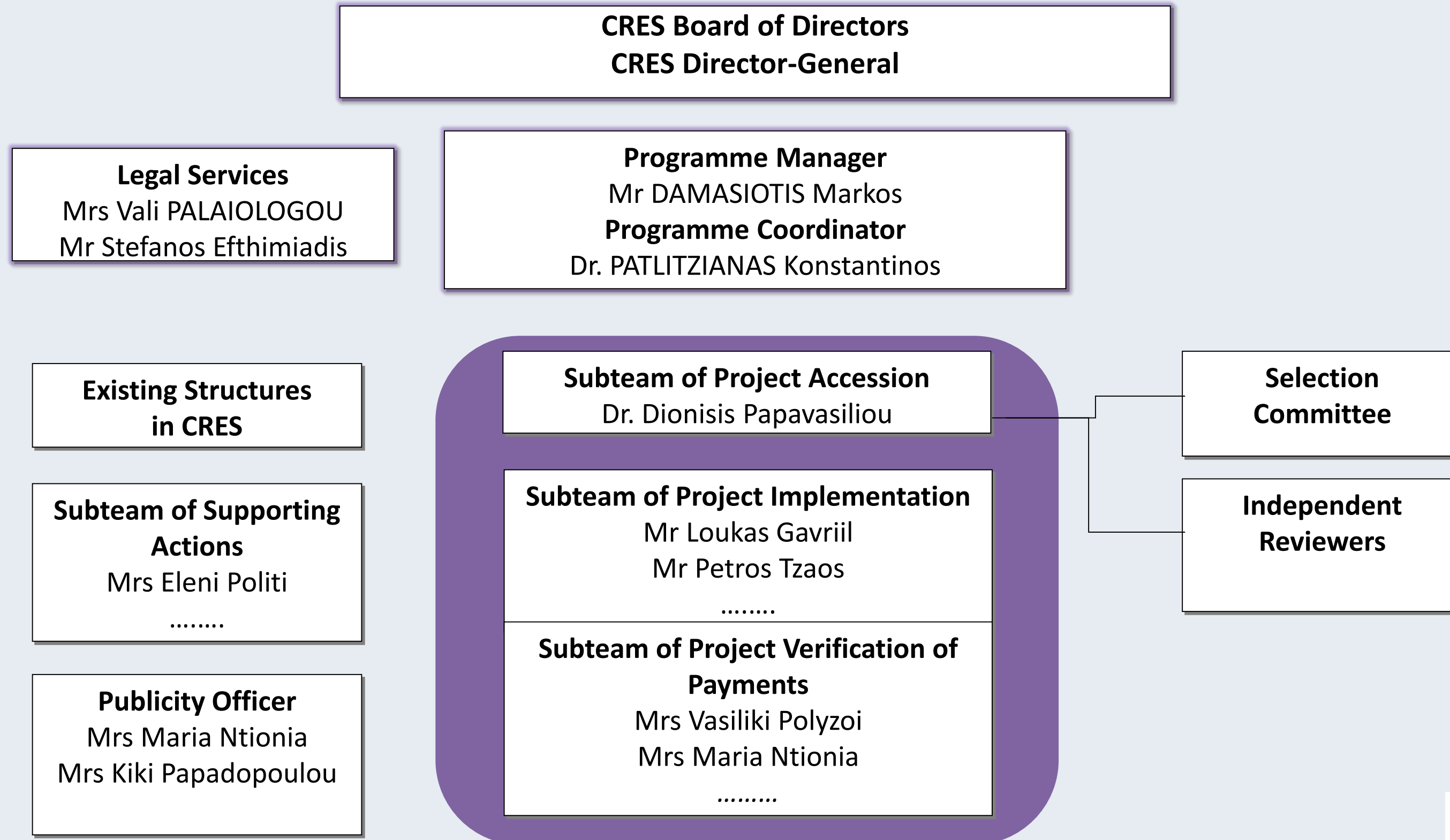


PV installation at the Minority Primary School of Megalo Deri.

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GR-Energy: Team



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Let's take this forward together.

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Thank you!

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