



Co-funded by
the European Union

ENERGY PASSPORT

Colegiul Economic "Mihail Kogălniceanu" Focșani

Erasmus+ Project Deliverable

Executive Summary

The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring.

Introduction

The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. Recommended actions include LED lighting, improved insulation, smart metering, behavioural change campaigns, photovoltaic systems, preventive maintenance and annual energy reviews. Expected outcomes are lower energy costs, improved indoor comfort and stronger environmental awareness among students and staff.

School Profile

The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport



P	P
---	---

provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. Recommended actions include LED lighting, improved insulation, smart metering, behavioural change campaigns, photovoltaic systems, preventive maintenance and annual energy reviews. Expected outcomes are lower energy costs, improved indoor comfort and stronger environmental awareness among students and staff.

1 2

Building Description

The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. Recommended actions include LED lighting, improved insulation, smart metering, behavioural change campaigns, photovoltaic systems, preventive maintenance and annual energy reviews. Expected outcomes are lower energy costs, improved indoor comfort and stronger environmental awareness among students and staff.

Current Energy Performance

The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. Recommended actions include LED lighting, improved insulation, smart metering, behavioural change campaigns, photovoltaic systems, preventive maintenance and annual energy reviews. Expected outcomes are lower energy costs, improved indoor comfort and stronger environmental awareness among students and staff.

Energy Challenges

The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. Recommended actions include LED lighting, improved insulation, smart metering, behavioural change campaigns, photovoltaic systems, preventive



maintenance and annual energy reviews. Expected outcomes are lower energy costs, improved indoor comfort and stronger environmental awareness among students and staff.

Recommended Energy Efficiency Measures

The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. Recommended actions include LED lighting, improved insulation, smart metering, behavioural change campaigns, photovoltaic systems, preventive maintenance and annual energy reviews. Expected outcomes are lower energy costs, improved indoor comfort and stronger environmental awareness among students and staff.

Renewable Energy Opportunities

The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. Recommended actions include LED lighting, improved insulation, smart metering, behavioural change campaigns, photovoltaic systems, preventive maintenance and annual energy reviews. Expected outcomes are lower energy costs, improved indoor comfort and stronger environmental awareness among students and staff.

Action Plan 2026–2030

The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. Recommended actions include LED lighting, improved insulation, smart metering, behavioural change campaigns, photovoltaic systems, preventive maintenance and annual energy reviews. Expected outcomes are lower energy costs, improved indoor comfort and stronger environmental awareness among students and staff.



Monitoring and Key Performance Indicators

The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. Recommended actions include LED lighting, improved insulation, smart metering, behavioural change campaigns, photovoltaic systems, preventive maintenance and annual energy reviews. Expected outcomes are lower energy costs, improved indoor comfort and stronger environmental awareness among students and staff.

Contribution to the SDGs

The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. Recommended actions include LED lighting, improved insulation, smart metering, behavioural change campaigns, photovoltaic systems, preventive maintenance and annual energy reviews. Expected outcomes are lower energy costs, improved indoor comfort and stronger environmental awareness among students and staff.

Risk Assessment

The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. Recommended actions include LED lighting, improved insulation, smart metering, behavioural change campaigns, photovoltaic systems, preventive maintenance and annual energy reviews. Expected outcomes are lower energy costs, improved indoor comfort and stronger environmental awareness among students and staff.

Conclusion

The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for



continuous monitoring. The school is committed to improving energy efficiency, reducing greenhouse gas emissions, and integrating sustainability into education. This Energy Passport provides a baseline assessment, identifies opportunities for improvement and establishes a roadmap for continuous monitoring. Recommended actions include LED lighting, improved insulation, smart metering, behavioural change campaigns, photovoltaic systems, preventive maintenance and annual energy reviews. Expected outcomes are lower energy costs, improved indoor comfort and stronger environmental awareness among students and staff.

Table 1. Indicative Action Plan

Year	Action	Expected Result	Priority
2026	Energy audit & awareness	Baseline established	High
2027	LED replacement	10-20% electricity savings	High
2028	Insulation improvements	Reduced heat loss	Medium
2029	Solar PV feasibility/installation	Renewable generation	Medium
2030	Review & update	Continuous improvement	High

Annexes

Annex A – Building Information Sheet

Annex B – Annual Electricity Consumption Table

Annex C – Heating Consumption Table

Annex D – Water Consumption Table

Annex E – Photographic Record

Annex F – Energy Saving Campaign Activities

Annex G – References (European Green Deal, EPBD, SDGs)



Co-funded by
the European Union

P	P
---	---

ANNEX A – Building Information Sheet

Building Name: Colegiul Economic "Mihail Kogălniceanu" Focșani

Location: Focșani, Romania

Building Type: Educational

Construction Year: _____

Gross Floor Area: _____ m²

Heated Area: _____ m²

Students: _____

Staff: _____

P
P
u
u
r
r
e
e
1
2
.
.
.
.

ANNEX B – Annual Energy Consumption Template

Year	Electricity (kWh)	Heating (kWh)	Water (m ³)	CO ₂ (t)
2024				
2025				
2026				

ANNEX C – Suggested Energy Saving Actions

- Replace fluorescent lamps with LED lighting.
- Install occupancy sensors.
- Improve roof and wall insulation.
- Install photovoltaic panels.
- Run annual student awareness campaigns.
- Monitor monthly energy consumption.

ANNEX D – References

- European Green Deal
- Energy Performance of Buildings Directive (EPBD)
- UN Sustainable Development Goals
- Erasmus+ Programme priorities on Environment and Climate Action

