



<b>Field of the best practice</b>	<input type="checkbox"/> PAPER <input type="checkbox"/> <b>ELECTRIC</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/> <b>THERMAL</b> <input type="checkbox"/> MOBILITY
<b>Title of the best practice</b>	<b>Demonstration Project implementing RES &amp; EE in the 1<sup>st</sup> Gymnasium of Pylaia</b>
<b>Country</b>	Greece
<b>City</b>	Pylaia, Thessaloniki
<b>School's name</b>	1 <sup>st</sup> GYMNASIUM OF PYLAIA
<b>School's website</b>	1gym-pylaias.thess.sch.gr
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<b>Short summary of the best practice</b>	<p>The school, in its initial stage, was of a typical school construction, found in many areas of Greece. But, it was proven an energy consuming one.</p> <p>So, by using EU-funded Operational Program's subsidies, the school transformed into a new, modern educational building, where a student is willing to be, participate and learn.</p>
<b>Goals</b>	<p>Prior to any interventions, the energy class of the school was C. After implementation of the actions the energy class improved by one class, to B and reduction of CO<sub>2</sub> by 38%</p>
<b>Main activities</b>	<p>The main energy efficiency and RES actions are:</p> <ol style="list-style-type: none"> <li>1. New energy efficient windows and doors</li> <li>2. New boiler/burner system, for NG-New 4-way valve</li> <li>3. Replacement of T8 lighting system in the classrooms with new T5 features, with electronic ballasts.</li> <li>4. Geothermal system for cooling/heating in the library.</li> <li>5. Installation of a 10 kW PV system in the roof – Net metering</li> <li>6. Installation of 49 fans in the classrooms and offices.</li> <li>7. New AC units, of higher COP, in teachers' offices.</li> <li>8. Planting of trees and flowers in the school yard, with automated watering system,</li> <li>9. Painting of the cement-field stables with cold photocatalyst material for improving the microclimate.</li> <li>10. Replacement of old-type outdoor lighting system with new ones: 10 lighting features of Hg 125 W by LED 76 W and 10 features Hg 80 W with LED 40 W.</li> <li>11. Installation of a BEMS system.</li> </ol>

	
<p><b>Background</b></p>	<p>The school was constructed, in 1992, by the state-owned School Building Organization (SBO) and its area is 3.583.2 m<sup>2</sup>, in three levels: semi-basement, ground level and floor. Its architectural style is as of a Γ-construction. The school building is constructed with reinforced concrete and masonry filling from brickwork, with thermal insulation.</p> 
<p><b>Time frame</b></p>	<p>2012 - 2014</p>
<p><b>Other relevant information</b></p>	<p>The school submitted a proposal for subsidy of all above described actions and, after evaluation, the proposal was included in the EU-funded Operational Program "Environment and Sustainable Development" code MIS 356924 and was approved on 27/9/2012 by a decision of the Deputy Minister of Energy and Environment, with a total budget of € 399,410.16€.</p>
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