Energy saving lighthouse cities for the NPA region - e-Lighthouse project
e-Lighthouse - general background

- 137 countries joined to UN Paris 2015 Agreement
- European Union encourages and supports energy saving with guidelines in its EU 2020 Strategy 20-20-20
- Cities and municipalities can voluntarily join Covenant Mayors –consortium (6500 signatories) in order to publicly commit energy savings in their operations → SEAP (Sustainable Energy Action Plan)
Energy in Communities

- Residential buildings
- Municipal buildings
- Industries
- Tertiary buildings
- Renewable Energy

Groups:
- Public lighting
- Transport
- Waste management
- Knowledge sharing
- People

Logos:
- Oulu University of Applied Sciences
- OAMK
- Umeå University
- Umeå Kommun
- Cork County Council
- Bodo Kommune
- The Highland Council

EU Logo:
- European Regional Development Fund
- Investing in your future
- Northern Periphery and Arctic Programme

Years:
- 2014–2020
Key tasks of e-Lighthouse project

- Retrofitting of public buildings
- Waste as energy, and the reuse of waste
- Smart energy solutions for public infrastructure and housing
- Energy reduction solutions for buildings and waste management
- Domestic energy retrofit
- Raising awareness
### e-Lighthouse - expected results

<table>
<thead>
<tr>
<th>WP</th>
<th>WP title</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>WP1</td>
<td>Management</td>
<td>High quality project</td>
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<tr>
<td>WP2</td>
<td>Communication, dissemination</td>
<td>15-20 seminars &amp; workshops in NPA region</td>
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<td>600,000 inhabitants reached (awareness raising)</td>
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<tr>
<td>WP T1</td>
<td>Energy saving in municipal buildings and lighting</td>
<td>250 public buildings retrofitted (5% less energy, 3% more renewables), 40 deep renovation</td>
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<tr>
<td>WP T2</td>
<td>Energy efficiency advice and energy saving for domestic renovation and new</td>
<td>2500 houses retrofitted (25% better energy efficiency)</td>
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<td>buildings</td>
<td>2000 new houses with better energy qualification (10%)</td>
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<tr>
<td>WP T3</td>
<td>Improved waste utilization: Waste for energy and reuse</td>
<td>Reduce energy use by 15% in waste management, with 20% less CO2 emissions</td>
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<tr>
<td>WP T4</td>
<td>Evaluation, validation</td>
<td>5 smart solutions piloted</td>
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