



ELENA Project Factsheet

Irish Water Energy Efficiency Programme

Location of planned investments	Ireland
Final Beneficiary	Irish Water
Sector(s) of investment	Energy Efficiency improvements in water infrastructure
Total Project Development Services (PDS) cost	EUR 1 777 770
ELENA co-financing	EUR 177 770
Project Development Services (PDS) financed by ELENA	EUR 1 600 000
PDS Timeframe	Q4 2020 till Q4 2023
Investment programme description	<p>The EUR 40m Energy Efficiency Programme is 80% dedicated towards process efficiency in the water facilities and 20% in building energy efficiency and building integrated renewable energy.</p> <p>It is the focus of the ELENA support to invest in new assets in a way where they substantially improve the overall energy performance of the water plants and the buildings for the utility. This will include municipal water pumps (waste and fresh water), improving aeration systems in waste water treatment plants, and lighting/ heating and building integrated PV.</p> <p>The Energy Efficiency Programme to be supported by ELENA is specifically focused on delivering energy savings, which are triggered by energy returns as the primary driver following an energy audit & business case. The programme would look at sites that are not already getting major upgrades in the overall investment plan and work towards 5-year payback criteria at the assessment stage.</p>
Investment amount to be mobilized	EUR 40m
Description of the approach to implement the Investment Programme	<p>Irish Water is responsible for all works funded by ELENA that are related to the preparation of the investment programme.</p> <p>The ELENA funded team will consist of dedicated internal staff plus external experts.</p>

	<p>The internal team will mainly identify the potential investments from preliminary energy audits and desk-based analysis of plants.</p> <p>Once an opportunity is identified, the internal team will either commission a more detailed energy audit (if required) or proceed to the design stage for the investment.</p> <p>The design stage will be completed by the internal team and external experts.</p> <p>Post commissioning, a measurement & verification (M&V) report will be completed to ensure the outcome was achieved.</p>
Expected results of investments planned	<p>The total estimated contributions for the ELENA supported investments are:</p> <ul style="list-style-type: none"> • Energy Efficiency – Annual total energy saved 29 GWh. • Renewable Energy – Annual RE electricity generation 2 GWh, • CO₂ reductions – Annual total reductions of nearly 13 000 CO₂ eq t. • Jobs retained or created - in 112 equivalent FTE
Leverage factor (Minimum 20)	25
Status	Contract signed on 14.10.2020
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