



ELENA Project Factsheet Vinzenz Group (EERR-VIG)

Location	The Project Development Services will be performed and the Investment Programme will be realised in the various locations of the Hospitals and other healthcare units of Vinzenz Group in Austria.
Beneficiary	The beneficiary will be Vinzenz Gruppe Krankenhausbeteiligungs- und Management GmbH, a Private Company (100% owned by a charity foundation - Sankt Vinzenz gemeinnützige Privatstiftung der Barmherzigen Schwestern). Although a legal entity governed by private law, the applicant fulfils a public service mission. All hospitals and nursing homes operated by Vinzenz Group are open to the public. The services are financed nearly completely by the public health insurance system. Internal procedures and accounts are subject to control by the Court of Audit of the Austrian regions of Upper Austria and Vienna.
CoM signatory	No
Sector	Energy Efficiency in Buildings
Total PDS cost	EUR 2,762,760
ELENA contribution	EUR 2,486,484
Project Development Services (PDS) financed by ELENA	<p>The current approach towards reconstruction, refurbishment and repair work in health care facilities is usual driven by maintenance and functionality patterns. This means that either urgent repair work is required or functional reasons lead to a more comprehensive reconstruction work in the hospitals. Both decisions take place with a strong focus on low investment cost and reduced time for implementation. Also, for larger investment projects, decisions are hardly influenced by energy efficiency considerations, because low investment costs are still the most decisive factor. Currently, the design and implementation processes, and, later on, the investment decision for refurbishment and renovation in health care facilities do not take energy efficiency criteria into account and are based on functional criteria such as costs and time to implement. The energy efficiency measures considered to be implemented are often overruled by functional or cost considerations as there is often a lack of time and money for a comprehensive life cycle analysis in the early design phases. In such case, if energy efficiency is not sufficiently taken into account in the investment decision, an excellent chance to improve energy efficiency in the respective hospitals is lost. Since it is necessary to ensure full operability of the hospital also during reconstruction, the energy efficiency measures cannot be implemented in an all-at-once-approach but only step by step over many years. The development of a coherent refurbishment and repair approach with the energy efficiency related elements requires considerable up-front cost which is difficult to cover with the existing budgets. In addition, the expected benefit (energy cost savings and reduced maintenance and repair costs in the long term) of investing the required up-front cost will come comparatively late, which is perceived as an important risk from the owner's point of view.</p>

PDS Timeframe	January 2017 – December 2019
Investment programme description	<p>The Investment Programme of the Vinzenz Group is defined on the one hand by continuous maintenance and refurbishment needs and on the other hand by the process Strategy 2020, by which Vinzenz Group aims at focusing the scope of the services of each single hospital. This includes a change in department structures which needs to be accompanied by different kinds of (re)construction measures. Therefore, the Investment Programme contains on the one hand various hospitals and on the other hand a wide set of (re)construction measures and accompanying technical adaptations, such as:</p> <ul style="list-style-type: none"> • complete replacement of outdated and inefficient ventilation and air conditioning systems; • reconstruction and extension of operating theatres; • replacement and procurement of new medical technology; • measures for improvement of hygienic conditions, such as prevention of production of legionella bacteria in tap water; • complete overhaul or renewal of building control systems; • measures for the improvement of steam production • replacement of lighting systems; • changes of internal floor plans accompanied by adaptations of technical systems; • refurbishment of building envelopes, sometimes in combination with complex reconstruction and annexes; <p>The prevailing share of (re)construction measures mentioned will not be initiated because of energy efficiency considerations but with the aim to maintain functional reliability of the hospitals. At the same time, most of these measures have a direct impact on energy use. Therefore, it is important that, during the implementation phase and with the help of ELENA TA, the most energy efficient options are chosen, so as to result in a considerable decrease in energy consumption.</p> <p>The Investment Programme will be implemented at the following hospitals:</p> <ul style="list-style-type: none"> • Hospital Sisters of Charity Linz • Hospital Sisters of Charity Ried • Hospital Sisters of Charity Vienna • St. Joseph Hospital, Vienna • Hospital Divine Savior, Vienna • Sacred Heart Hospital, Vienna • Orthopaedic Hospital Speising, Vienna
Investment to be mobilized	The total estimated energy efficiency related investments volume for the mentioned hospitals is in the range of about 282 MEUR, of which 162.5 MEUR are envisaged to be implemented over the duration of the ELENA TA.
Description of the approach to implement the Investment Programme	<p>The Vinzenz Group is very much committed to increasing the efficiency of their buildings and technology. Thus, the proposed ELENA TA action shall enable Vinzenz Group to take energy efficiency criteria into account as standard routine, whenever they decide that (re)construction measures will be implemented.</p> <p>Based on the ELENA TA advice on the energy efficiency measures incorporated into the Investment Programme of each individual hospital, the final investment decisions will be taken by the Management Board of the hospital.</p>

Expected results	<p>The full implementation of the Investment Programme will result in the following benefits:</p> <ul style="list-style-type: none"> • Energy Efficiency - annual energy saved 18.3 GWh_el & 21.4 GWh_{th} • CO₂ emissions reductions – annual total reductions of CO₂ emissions 8,100 t CO₂ eq. • Increased employment – the Investment Programme is expected to create around 1100 full-time equivalents (FTE) • Improved indoor climate – the Investment Programme is expected to lead to improved indoor climate in the hospitals which will have a positive effect on health and comfort of the users.
Leverage factor (Minimum 20)	65
Market replication potential	<p>The project has a high replication potential, especially in Austria but also in other European countries where the investments in health system infrastructure do not take energy efficiency measures into account. The ELENA support contributes to a significant increase in expenditure in the priority activities of energy efficiency in the urban areas and thus contributes to implementing regional and national objectives in these sectors.</p> <p>The market replication potential of the project is considerable. The project is using an innovative concept for implementation of energy efficiency measures in healthcare facilities. It is expected that lessons learned from carrying out the project will allow other European countries to follow a similar path.</p>
Status	On-going
Contact person at Beneficiary	Dr. Michael Heinisch