

The following list outlines the equipment acquired by the Centre of Excellence (CoE) under the SustainLivWork project. This investment strengthens the Centre’s technological infrastructure, providing advanced computational and simulation resources that support research, innovation, and sustainable development activities.

The list of the CoE acquired equipment with technical descriptions

Table 1. CoE’s list of HPC equipment

Visuals	Description
	Dell PowerEdge R7525 (2x H100 80GB). 2x7763 (2x64 Cores CPU), 1TB RAM, 2x480GB SATA SSD, 2x Nvidia H100 80GB GPU, 2x 100G LAN, 5Yr ProSupport) (5 Units). Dell R7525 server with 2 NVIDIA H100 80GB GPUs for demanding workloads.
	Ceph storage cluster built with R6515 servers provides 75TB of scalable, high-performance storage for data applications. 1x7543P (32 Cores CPU), 128GB RAM, 2x480GB SATA SSD, 5x7.68TB NVMe Micron 7400 Pro, SSD, 2x 100G LAN, 5Yr ProSupport (5)

Table 2. List of equipment simulators, sensors, measuring platforms and other equipment for energy-related research

Visuals	Description
	Opal-RT is a powerful tool for engineers working on complex systems, especially in power grids, electronics, and motor drives. It acts as a real-time simulator, mimicking real-world behavior. Imagine testing a control system for a wind turbine - Opal-RT can simulate the turbine's response to wind variations, allowing engineers to refine the system without risking actual hardware. This hardware-in-the-loop (HIL) testing capability accelerates development, reduces costs, and ensures systems function flawlessly before deployment.