


Open call	CIEN 2015
Funding body	CDTI
Duration	2015-2018
Budget	€8,490,000
Partners	
	

PROJECT DESCRIPTION

The aim of the ESTEFI project is to develop a solution that responds efficiently to urban centres' public transport needs, through a new concept of mixed-mode transport (tram, bus, electric vehicle and lift) which will functionally integrate the most innovative technology in the field of energy accumulation. This optimised micro-grid design will minimise the demand for power on the grid, branching into different loads or means of both horizontal and vertical transport developed using the most innovative storage system technology (ESS: Energy Storage System) and power electronics (Power Converter). The mixed-mode station will integrate new high-power storage systems built to face peaks in energy demand, thus ensuring the availability and stability of the micro-grid.

SCOPE OF TR'S WORK

Técnicas Reunidas has the following aims:

- To develop the mixed-mode station's systems for accumulating energy (ESS) and their applications based on the overall energy needs of the station and of each application.
- To find storage solutions that are versatile and compatible with different vehicle transport applications.
- To develop a stationary energy storage solution that is specific to a mixed-mode transport micro-grid, in order to take advantage of the synergies between the different transport elements (both horizontal and vertical), bearing in mind the reduction in energy consumption and more responsible use of resources.