

Energy Conversion System for an Electric City Bus/Microbus, with Supercapacitor Energy Storage and Superhigh Power Density Drive (Acronym: ECON-BUS)

Contract no. 307PED2020

This project goal is the development of a small scale (reduced power) laboratory demonstration model for an *urban electric transportation energy conversion system*, using supercapacitors (SC) as main energy storage devices and a super-high torque/power density permanent magnet synchronous motor/drive. *The description of the proposed demonstration model is based on the concept presented in the block diagram from Fig.1.*

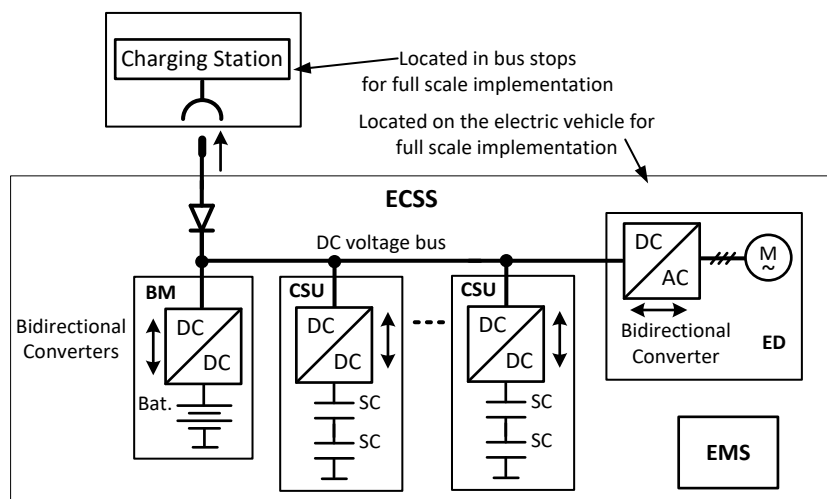


Fig. 1 The block diagram of the proposed demonstration model, representing the energy conversion and storage system located in an urban public transportation vehicle (electric bus or microbus).

Project team:

1. Prof. Nicolae Muntean, project leader
2. Acad. Ion Boldea
3. Prof. Nicolae Tutelea
4. CS1 Sebastian Muntean
5. CS2 Ileana Torac
6. Assoc. Prof. Octavian Cornea, person in charge for partner UPT
7. Prof. Gheorghe-Daniel Andreescu
8. Asist. Prof. Dan-Cornel Hulea
9. Asist. Prof. Ana Popa
10. PhD students: Liviu-Danut Vitan, Adrian Martin, Mihaita-Constantin Gireada