

October 2016

European Space Power Conference, 3-7 October 2016

Advent Technologies attended the 11th European Space Power Conference (ESPC) which was held at Porto Palace, Thessaloniki on 3-7 October 2016. The conference is intended to cover the three main topics of:

- Power generation, with solar generators, of course, but also with other types of sources like nuclear or electrochemical ones (primary cells and fuel cells, among others)
- Energy storage, largely dominated by batteries but where regenerative fuel cells show some promises
- Power management and distribution, a wide domain covering every levels of integration from the electrical parts to power subsystem architectures

Dr Nora Gourdoupi, R&D manager of the company, gave an oral presentation under the Topic Energy storage. The recent development on HTPEM stacks of the company have been presented, starting for the version 1 prototype of 2010 resulting to the design of version 3 prototype metal stack of 2016 for space applications. Part of the presented work has been performed within national and European projects, while the main focus was given on the achievements related to the European Space Agency contract, *ESTEC Contract No. 4000109578/13/NL/SC*, from Advent side which is the prime contractor. The target of the contract is to develop a closed loop Regenerative HTPEM fuel cell system comprised of a High Pressure water PEM electrolysis (1.5 kW) and High Temperature PEM fuel cell (3 kW). Advent has to build the HTPEMFC of 3kW with a power to volume ratio of 1kW/kg.



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