

Successful R&I in Europe 2019 10th European Networking Event

Light aircraft equipped with electric power system based on hydrogen fuel cells

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Who we are



Institute of Aeronautics and Applied Mechanics,
Faculty of Power and Aeronautical Engineering,
Warsaw University of Technology
located in Warsaw

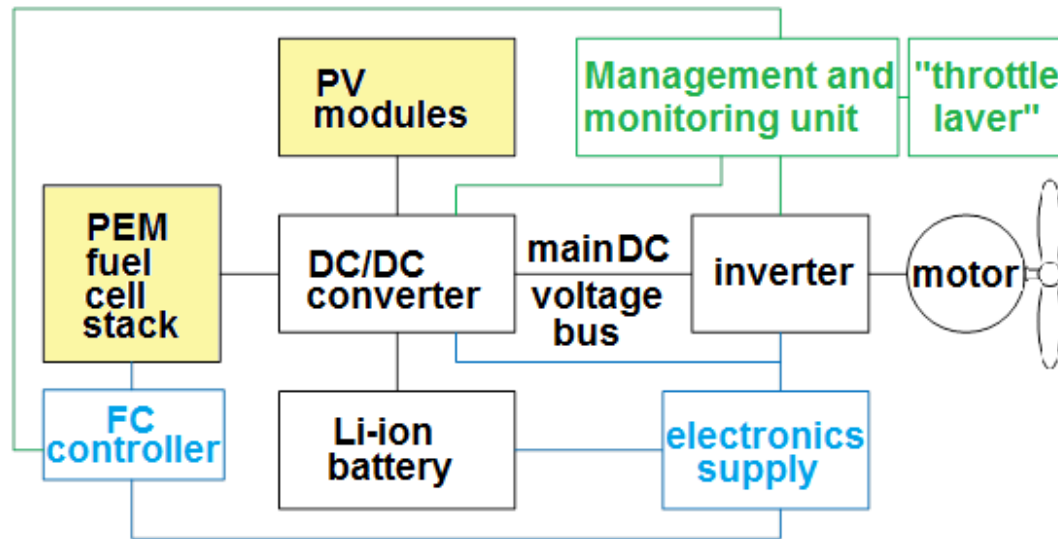
What we are interested in

Design and tests of a light aircraft powered with electric power system composed of

- stack of hydrogen fuel cells (PEM)
- panels of thin film photovoltaic cells
- + subsidiary lithium polymer battery pack

Topics (tasks)

- design, manufacture and ground/flight tests of an electric power system with complementary energy sources such as hydrogen fuel cell stack and photovoltaic cell panel



- Design and manufacture of a light composite aircraft being a platform for flight tests of the electric power system made

Complete relevant projects:

Our experience



Motor-glider with a piston engine



serial production

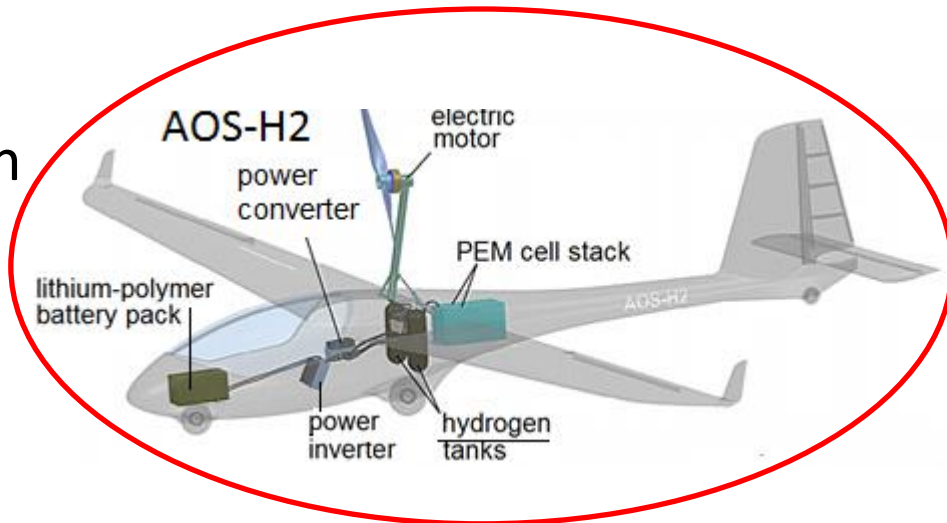


Electric motor-glider with lithium-polymer batteries

On going project:

supported by NCRD,
contract no. PBS/A6/24/2015

Electric motor-glider
with PEM fuel cells



We need partners with

- expertise in a hydrogen fuel cell stack design & assembling
- expertise in safety issues related to high pressure hydrogen systems
- expertise in thin film photovoltaic cell/cell panels manufacturing and putting in place (bonding)
and
- interested in the problems mentioned

Role of Partners:

- consortium members or
- a leader

Contact person:

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Thank you for your attention