

Institute of Thermomechanics Seminar

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Lecture No. 54

Czech Society for Mechanics and Institute of Thermomechanics, CAS

invite you to a lecture and discussion within the lecture series **Institute of Thermomechanics Seminar**

The development of Fuel Cell & Energy Storage technologies in ITRI – Status and Prospective

given by

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Taiwan Government has set the goal of promoting energy transformation to achieve the vision of non-nuclear country by 2025. In addition to energy security and carbon reduction, Taiwan Government is looking forward to develop advanced energy technologies through the promotion actions and policy.

With the advantages of high efficiency, distributed, and environmental protection, fuel cell industries have been booming in recent years and the market for electric vehicles and power stations are continuously growing. With the support and demonstration by the government, Taiwan stationary power generation has successful popularized. Not only certain key technologies and related industrial chains have been established, industries also try to expand the overseas markets. In addition to promote the distributed power sources, fuel cell can be used with renewable energy as a fuel storage option.

Energy storage is one of the major focuses as the infrastructure of green energy for government in the green energy industry. It is also considered as one of the solutions to the problem caused by high penetration rate of renewable energy. In response to the 20% development goal of renewable energy in 2025, utilization of energy storage technology to strengthen the renewable energy is expected. Energy storage can stabilize intermittent power output of renewable energy, eliminates transient fluctuation of grid power, and improves reliability of power grid.

ITRI has devoted to developing core technologies of PEMFC, Aluminum ion battery, Vanadium Redox flow battery for distributed energy supply and storage. Hoping that this meeting achieves strengthen cooperation between ITRI and CAS and jointly creates innovative research and application on the hydrogen energy and energy storage area.

The lecture will be held on Wednesday, October 3, 2018 at 10:00 in the building of the Institute of Thermomechanics (lecture room B), Dolejškova 5, 182 00 Prague 8

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