

Speakers



Jiří Šmondrk – CEO Doosan Škoda Power

Jiří Šmondrk has been working for Doosan Škoda Power since 1986 in several departments. Since 2005, he has been the Executive Director and became the company's CEO in 2010.

Ján Štuller - Government Special Envoy for Nuclear Energy

Jan Štuller has been working for the International Atomic Energy Agency and was Director of the Nuclear Safety Assessment Department of the State Office for Nuclear Safety. Currently, he is Government Special Envoy for Nuclear Energy.



Dr Michael Ladwig - President EU Turbines

Collaboration at GE Power, President EU Turbines Michael Ladwig has been working in the field of gas turbines and all types of thermal power plant technology for more than 30 years. Since 2012, he is responsible for global technology co-operations within GE Power and became president of EU Turbines in 2016.

Dr Alexander Wiedermann - Senior Manager Advanced Product Design & Innovation Engineering Gas Turbines at MAN Energy Solutions

Alexander Wiedermann looks back at 30 years of professional experience in Gas Turbine Development at Mitsubishi Heavy Industries and MAN. He is chairman of AG Turbo in Germany and Executive board of both FLEXTRUBINE and TURBO-REFLEX projects.



Dr Ivan Dudurych – Chartered Power System Consultant Engineer at EIRGRID, Associated Professor

Ivan Dudurych has more than 35-year experience in power systems both in the Academia and in the Industry. At EIRGRID, he is responsible for developing and implementing policies and tools on operational security of the synchronous system of Ireland and Northern Ireland with unprecedented level of intermittent renewable sources of energy. He represents the power industry consulting group in the FLEXTRUBINE Project.

Venue

Towerpark Prague
Mahlerovy sady 1,
130 00 Prague / Praha 3
Czech Republic

www.towerpark.cz

Coordinating Entity



GE Deutschland Holding
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Panel Discussion Organiser & General Enquires at the FLEXTRUBINE Project Office



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Partners



FLEXTRUBINE, TURBO-REFLEX User Consultation Group Members



FLEXTRUBINE and TURBO-REFLEX have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 653941 and No. 764545

Open Discussion Forum

Turbine Technologies as the Back-Bone for the Energy Transition

25th Sep 18

Towerpark Prague



Agenda 25th Sep 2018

Time	Item	Speakers
10:00 - 10:15	Welcome note, Introductory presentation	Jiří Šmondrk
10:15 - 10:30	The pathway forward for turbomachinery in Europe	Michael Ladwig
10:30 - 11:00	Contemporary and future flexibility requirements for fossil fuel turbines	Ivan Dudurych
11:00 - 11:30	FLEXTURBINE and TURBO-REFLEX projects presentation	Alexander Wiedermann
11:30 - 12:00	Coffee break	
12:00 – 13:30	Panel discussion: Flexible thermal power plants for the future energy market	Jiří Šmondrk, Ján Štuller, Michael Ladwig, Alexander Wiedermann, Ivan Dudurych
13:30	End of Meeting	

Moderation: Christa Friedl, Scientific Journalist

Invited Participants

Jaroslav Souček, Trade Union

Eva Zažímalová, Academy of Science, Czech Republic

Viktor Černý, ČEZ a.s.

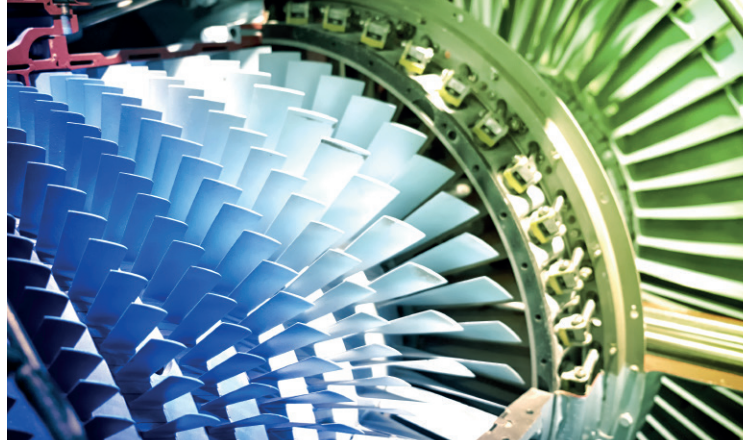
Petr Závodský, ČEZ a.s.

Jiří Plešek, Academy of Science, Czech Republic

Registration

Please register to the Open Discussion Forum no later than Friday, 21st September 2018 at <http://bit.do/flex-energy>

www.flex-energy.eu



The Need for Flexible Backup Power

The share of renewable energy sources (RES) has constantly grown over the past years and still increases rapidly. However, due to the intermittent nature of RES, flexible backup power is needed to ensure the stability of the grid. To date, the most suitable and economically viable solution are conventional power plants to fulfil this requirement. To accomplish this supporting role, existing fossil fuel power plants and their most critical components need to be made significantly more robust to allow for highly flexible operation.

Panel and open discussion

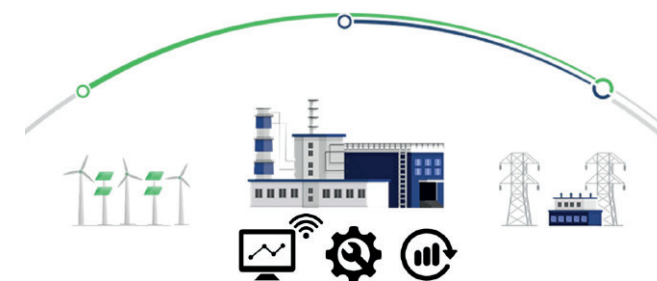
Apart from getting an overview about current research projects on flexibility and their initial results, the event invites to an open discussion on advanced turbine technologies and how they can contribute to the transition process towards a future low carbon energy sector. A panel discussion with experts in the field will give the opportunity to get a differentiated picture of the topic while related challenges and opportunities as well as potential political, economic and scientific implications will be discussed.

How current European Research Contributes to the Energy Transition

The European innovation projects FLEXTURBINE and TURBO-REFLEX aim at developing innovative and cost-effective solutions to existing and new power plants that will significantly contribute to more flexible operation of thermal power plants.

The mission of the projects is to strongly advance state-of-the-art fossil fuel power plant engine technology to allow flexible high load changes required to enable higher share of sustainable renewable energy in the European power grid. This includes individual technology component improvements as well as new sensor and monitoring technologies that allow condition-based maintenance and repair as well as optimised operation.

Through the solutions developed within the projects, 10% of the installed fossil capacity could be retrofitted by 2030. With regards to economic benefits, the solutions developed within the FLEX projects have the potential for an annual cost reduction of 100 million EUR at the European level.



How current turbine research contributes to the energy transition.