

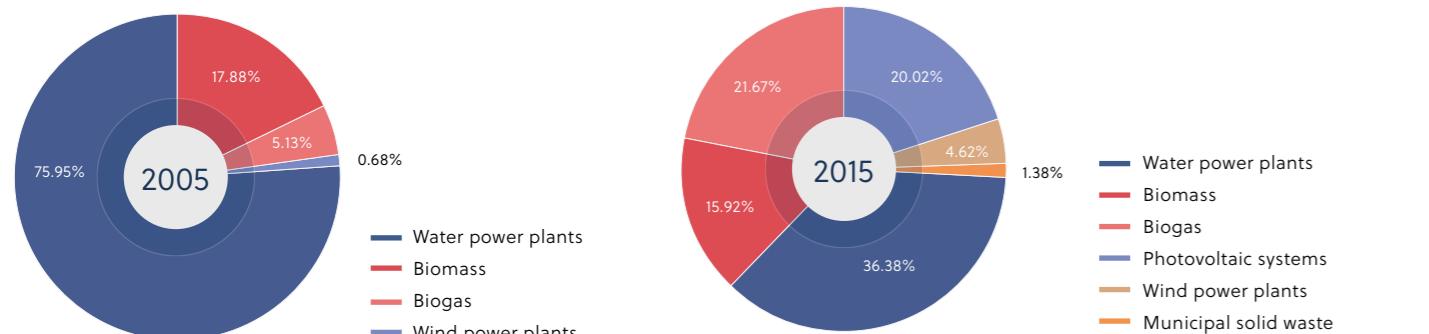
Statistics

R&D Team Leader Salary

Location	Costs	Total
Czech Republic	1	960 073
China	2	971 920
UK	3	1 600 006
South Korea	4	1 868 457
Sweden	5	1 966 314
Germany	6	2 374 527
USA	7	2 432 232
Employee head count		30

All cost values shown in EUR - Euro per annum.
 Source: FDI Benchmark, a service from the Financial Times Limited 2017. All Rights Reserved.

Structure of Renewable Energy



Lithium

The Czech Republic has the **largest known deposit of lithium** in Europe and about the fourth largest non-brine deposit in the world.



Renewable Sources

More than **13% of energy in the Czech Republic** has been produced from **renewable sources** which meets criteria set by the EU, new goal is 15,4% by 2020.



89% Growth

Around **89% of domestic productions** in energy and environment sector is exported abroad (Czech Stat. office).

Our Specialist



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Czech Republic Land of Cleantech



Research & Development and Infrastructure



Energy Research Centre

It is a research centre at the Technical University of Ostrava. The ERC activities covers a wide range of various fields. The most important ones include above all research and development and cooperation with industrial partners in areas of combustion facilities, thermic transformation and power engineering.

<http://vec.vsb.cz/>



Regional Innovation Centre for Electrical Engineering

The RICE, part of University of West Bohemia, aspires to provide a full range of research activities, from new materials to new solutions for power-generation drive systems and processes for increased efficiency and optimised operation of power or heat generation.

<http://www.rice.zcu.cz/>



Centre for Research and Utilization of Renewable Energy

It is a research centre at Brno University of Technology. Main goal is to concentrate significant research and development facilities for solution of issues of development, research and utilization in the areas of electrochemical sources of electric energy, hydrogen cells, electro-mechanic energy conversion, power and control electronics and sensorics, and production of electric energy from renewable resources.

<http://www.cvvoze.cz/en/>



Alternative Drive Units and Fuels Laboratory

It is a research facility at the Technical University of Ostrava and is focused on the use of chemical energy from standard and alternative fuels and conversion thereof into various types of energy with minimal impact on the environment. The laboratory's main areas of interest include research of cogeneration units.

<http://www.elapp.cz/>



University Centre for Energy Efficient Buildings

UCEEB is an interdisciplinary research facility of the Czech Technical University in Prague that brings together a critical mass of knowledge from civil engineering, mechanical engineering, material science, electrical engineering and biomedicine. UCEEB is focused in complex holistic research on sustainable buildings and providing high quality research space for researchers and doctoral students.

<http://www.uceeb.cz/en>

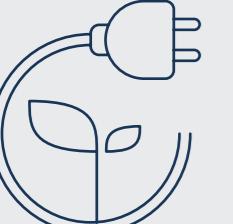


Centre of Intelligent Power Engineering

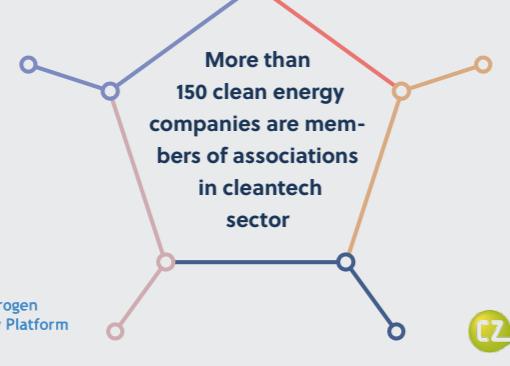
ModemTec, a technology leader in the field of R&D activities for smart grids has established a unique research and development facility called the Centre of Intelligent Power Engineering, which is designed to support the development of modern appliances to meet the current and future needs of the power industry.

<http://www.cie-trinec.cz/en/>

Clusters and Associations



www.czgbc.org



www.creacz.com



www.hytep.cz



www.czbiom.cz

Energy and Environment in the Czech Republic



Investment Case Studies



Jiří Šmondrk
Director General of Doosan Škoda Power



Dieter Vyncke
Chief Operating Officer, VYNCKE



Josef Jeleček
Chief Executive Officer of TEDOM

Doosan Corporation's values that "The little grains of sand that, all together, add up to make a mighty mountain" is fully demonstrated in their partnering with Škoda Power where both partners have over 100 years record of manufacturing excellence and innovation which has formed a basis of the global R&D centre for turbine technologies based in the Czech Republic.

VYNCKE is not just a typical boiler manufacturer but a more complete energy solution provider with many references of thermal oil heaters, hot water boilers, steam boilers, hot gas generators, electricity producer and more advanced and combined systems. One of the main motivating factors for expanding the firm in the Czech Republic was the availability of highly qualified specialists, technicians and engineers, thanks to which the company has advanced rapidly in recent years and reached the peak of technological development in its field.

Cleantech Study Programmes at Czech Universities



Brno University of Technology

Students: 791
Graduates: 239



Czech Technical University in Prague

Students: 1,252
Graduates: 370



University of Chemistry and Technology, Prague

Students: 529
Graduates: 134



The University of West Bohemia

Plzen
Students: 422
Graduates: 95



Palacký University, Olomouc
Students: 469
Graduates: 63

Source: Ministry of Education, Youth and Sport, 2016



1707



The Czech Technical University

The Czech Technical University in Prague is the oldest non-military technical university in Europe.

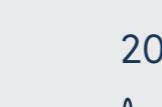
1919



The Kaplan turbine

The first prototype of Kaplan turbine was developed in Brno and produced by Czech company Ignác and Storek.

2015



Ecological Oscar goes to University Centre for Energy-Efficient Buildings

Ing. James Mašuch, Ph.D. and his team received the award for their WAVE micro-power plant project. The power plant produces electricity and heat from biomass. It is able to cover the needs for heat and power for homes, small businesses, large residential complexes, office buildings and schools.

2016



Invention of the rolling fluid turbine

Miroslav Sedláček's invention of rolling fluid turbine unlocks potential for electricity generation from waterways with low velocity such as brooks and small streams, thereby opening up a wide range of previously unexplored sources of sustainable energy.

2015
2016
2017



3D lithium battery is about to bring a revolution to the energy storage industry

Czech company HE3DA optimizes nanomaterials and morphology of electrodes to make a safe battery with outstanding properties.