

## Czech Republic

The Czech Republic has 6 operating nuclear reactors: four of them are in [DUKOVANY](#) (VVER-440) (a fifth is planned) and two are in [TEMELIN](#) (vver-1000) (two more are planned). The 6 operating reactors are generating more than one-third of its electricity.

The report on the [State energy policy of the Czech Republic](#), of 2004, stipulates that one of the objectives of the country's energy policy is the optimization of the share of nuclear energy within a safe long-term energy mix while respecting the essential operational safety requirements. The fulfillment of this objective will help to reduce the environmental load within the Czech Republic, including the reduction of greenhouse gas emissions. Nuclear energy will also support the priority of maximum independence of the country from foreign energy sources.

### NUCLEAR EDUCATION AND TRAINING

These universities offer a Bachelor Degree within the nuclear scope: the [Charles University in Prague/Univerzita Karlova v Praze](#) which in its [Faculty of Mathematics and Physics](#) teaches the Plasma Physics and Ionized Environments Bachelor Degree; the [Czech Technical University in Prague/Ceské Vysoké Učení Technické](#) offers some specializations within this scope such as a Physics and Technology of Nuclear Fusion specialization (within the study branch Physical Engineering), the Theory and Technology of Nuclear Reactors specialization (within the study branch Nuclear Engineering) and the Dosimetry and Applied Ionizing Radiation specialization (within the study branch Nuclear Engineering).

Within the Master Degree scope, the Czech Technical University in Prague/Ceské Vysoké Učení Technické offers some specializations such as a Physics and Technology of Nuclear Fusion specialization (within the study branch Physical Engineering), the Theory and Technology of Nuclear Reactors specialization (within the study branch Nuclear Engineering) and the Radiological Physics. The [Brno University of Technology/Vysoké Učení Technické v Brně](#) within its Power Master Engineering has the possibility of a Nuclear Power Engineering Specialization.

For the PhD Degree the offer is expanded and the [Institute of Physics](#) of the Academy of Sciences of the Czech Republic/Akademie věd ČR offers two PhD nuclear specializations: Plasma Physics and Ionized Environments and Subnuclear Physics. The Institute of Physics of the Academy of Sciences of the Czech Republic offers the possibility to the students of PhD of being trained within the framework of subnuclear physics program.

The [Czech Nuclear Research Institute Rez/Ústav Jaderného Výzkumu Rez a.s. \(UJV\)](#) takes part of the [European Nuclear Safety Training Institute \(ENSTTI\)](#) which offers several training courses.

In the nuclear research scope there are several institutions involved, the main of them is the Nuclear Research Institute Rez plc. Other institutions are the [Nuclear Physics Institute of the ASCR](#) of the Academy of Sciences of the Czech Republic; the [Institute of Particle and Nuclear Physics](#) of the Charles University in Prague; the Institute of Nuclear fuel of the [UJP Praha](#); the [Faculty of Nuclear Sciences and Physical Engineering](#), [Faculty of Mechanical Engineering](#) and the [Faculty Electrical Engineering](#) of the Czech Technical University in Prague/Ceské Vysoké Učení Technické; the [Faculty of Mechanical Engineering](#) of the [University of West Bohemia/Západočeská Univerzita v Plzni](#) and the [Institute of Chemical Technology Prague/Vysolá Skola Chemicko-Technologická v Praze](#). The Faculty of Nuclear Sciences and Physical Engineering (CTU) also operate the [training school experimental reactor Vrabec VR-1](#).

The [Czech Nuclear Education Network \(CENEN\)](#) as academic association of educational Czech Institutions offers teaching and training within the Nuclear Engineering scope and it's involved in the development of a high standard of the Czech nuclear education.

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