

Annotation

The diploma thesis examines the effect of decommissioning of nuclear power plants on the energy security of two European countries – Germany and the Czech Republic. First, the author focuses on theoretical anchoring of energy security. The practical part then examines both countries from the perspective of their energy mixes and policies and infrastructure interconnection. This is the starting point for the comparison of the effects of the decommissioning of nuclear power plants. Second, the author presents three scenarios to replace nuclear energy, exploring how German and Czech energy security will change. The first scenario is the use of renewable energy only. The second option is a combination of renewable energy and coal. Finally, the third option is again a certain proportion of renewable energy along with natural gas. Last but not least, the author concludes in the presented paper that, despite the various possible combinations of how to replace nuclear energy, both countries would be worse off within the framework of energy security.