



Activity 7.4: Designing a hydroelectric power plant

Learning aims:

- energy conversion in a hydroelectric power plant
- functional principles and properties of hydroelectric power plants;

Suggestions for use:

- Pupils should determine possible influences on the power of a hydroelectric power plant and test these out, then present their findings easy to understand.
- An industry visit at a hydroelectric power plant or expert interview is recommended.

Possible questions:

- How does a hydroelectric power plant work?
- Which types of hydroelectric power plants exist, which are planned?
- How much energy can be generated by your hydroelectric power plant?
- Which values influence the power of a hydroelectric power plant?
- Why are hydroelectric power plants so expensive?
- What do you need to build a hydroelectric power plant? Which materials are useful?
- Is your hydroelectric power plant efficient enough to ...?
- What do experts know about building a hydroelectric power plant?