

CLIMATE DECLARATION FOR ELECTRICITY FROM NUCLEAR POWER

Functional unit: 1 kWh net electricity from the Beznau Nuclear Power Plant

The climate declaration shows the emissions of greenhouse gases, expressed as CO₂-equivalents. It is based on verified results from a lifecycle assessment (LCA) performed as basis for an EPD® (Environmental Product Declaration), in accordance with ISO 14025.



Product

The declared product is 1 kWh net electricity generated in Beznau NPP during the reference year 2006/07. Beznau nuclear power plant, wholly owned by Axpo AG, consists of two virtually identical, dual-loop, pressurised water reactor units. The combined net power output is 730MWel that leads to an annual electricity production of approx. 6TWh. Since 2001 Beznau NPP implements an environmental management system, certified and registered according to ISO 14001.

Company

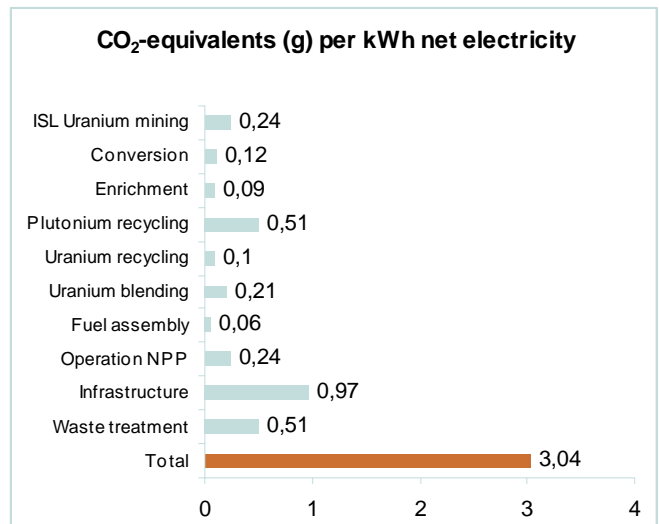
The Axpo AG is a wholly owned subsidiary of the Axpo Holding AG. The Axpo group is a leading Swiss energy company supplying electricity to about three million people. More information is presented on the Internet: www.axpo.ch.

Climate declaration

The LCA comprises the manufacture of three different fuel types which are in use at Beznau NPP: Conventional uranium fuel (UO₂), mixed oxide fuel from reprocessing (MOX) and uranium fuel from the recycling of reprocessed uranium and surplus weapon-grade uranium (ERU).

Additionally, the life-cycle stages operation, construction and dismantling (infrastructure) and

the treatment of radioactive waste have been inventoried and assessed.



Other environmental information

The complete certified declaration also contains information on greenhouse gas emissions due to the distribution of electricity and LCA results on other emissions, resource use, and waste as well as descriptions of environmental risks and radiological impacts in accordance with the EPD® system requirements, see www.environdec.com.

Contact

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LINK TO MORE INFORMATION: WWW.CLIMATEDEC.COM/144

EPD PROGRAMME: THE INTERNATIONAL EPD® SYSTEM

REGISTRATION NO: S-P-00144

PCR: 2007:08

PCR REVIEW CONDUCTED BY: TC INTERNATIONAL EPD® SYSTEM

INDEPENDENT VERIFICATION OF THE DECLARATION AND DATA, ACCORDING TO ISO 14025:
EXTERNAL VERIFIER: BUREAU VERTIAS CERTIFICATION, SWEDEN

ACCREDITED / APPROVED BY:
SWEDAC

CLIMATE DECLARATIONS FROM DIFFERENT PROGRAMS MAY NOT BE COMPARABLE

READ MORE ABOUT CLIMATE DECLARATIONS AT WWW.CLIMATEDEC.COM

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