

Innova 2 Technopolis

The Technopolis Innova 2 office building is the first building in Finland to use energy piles utilising ground-source heat. The energy piles were jointly developed by Ruukki and Uponor.



Partners



- > Investor: Technopolis Oyj
- > Lead Contractor: NCC Construction Ltd
- > Architectural Designer: Arkjaatiset Oy
- > Structural engineering design: Insinööritoimisto Mittatyö Suomi Oy
- > LEED & Energy Consultant: Janercon Oy
- > Piling contractor: Maajukka Oy
- > Geotechnical design: Ramboll Finland Oy
- > Energy pile simulation: Granlund Oy
- > Energy pile partner: Uponor Corporation

Office building Technopolis Innova 2, located in the centre of city of Jyväskylä, is extended with another 6-storey building, about 10,000 gross square metre.

The Technopolis Innova 2 office building is the first building in Finland to use energy **piles** utilising **ground-source heat**. The energy piles were jointly developed by Ruukki and Uponor.

The steel piles used in foundation construction serve as both the foundation and as energy piles collecting free energy from the ground.

Energy piles are ideal for commercial buildings, where both heat and cooling are required.

The use of energy piles improves the **energy efficiency** of a building and reduces its carbon footprint. Ruukki will also deliver the building's **steel frame** and **prefabricated wall elements** including structural design and installation.

The building is designed to fulfill the requirements for Energy Class B. LEED certification will be pursued for the building.

"Energy efficiency was a particularly important aspect in construction of the building. Energy piles meet about 50% of the building's energy requirement for heating and 40% of the energy requirement for cooling. The first experiences of the system have been very encouraging."

Samuel Koivisto, Director, Jyväskylä operations, Technopolis Plc

