

SASTO

50 years of expertise in building services engineering

design consulting supervision



Expertise in building services engineering: 50 years of professional service

LVI-Sasto is a top professional in the field of building energy management solutions, providing services for both corporate clients and the public sector. Our operations are rooted in an understanding of our customers' needs to achieve the best possible results.

Specialising in building services engineering, LVI-Sasto is the oldest continuously operated HVAC and plumbing design company of its type in Oulu, Finland. Our key business operations include design, consulting, and supervision related to HVAC, plumbing, and building automation.

Our strength lies in the extensive effort we invest in design. We want to release well-made plans only.

The service portfolio of LVI-Sasto includes, for example:

- HVAC and plumbing system design
- Building automation system design
- Refrigeration system design
- Special building services system design
- HVAC and plumbing supervision and specialist services
- Project plans
- Energy simulations
- Condition simulations
- 3D design and IFC modelling
- Energy-economy and life-cycle assessments
- Cost accounting and comparisons
- Pipe renovation project planning and consultation
- Operation testing and surveys of building automation, HVAC, and plumbing systems





Projects

Our assignments include both new construction projects and renovation projects – public projects, educational facilities, hotels, restaurants, and commercial and residential buildings.

We design:

- **Residential areas**

We have planned hundreds of residential areas, both individual sites and more extensive entities. Our company has always been keen on developing new systems and implementation options. Thanks to our vast experience, we can provide optimal solutions for both basic and extremely demanding sites.

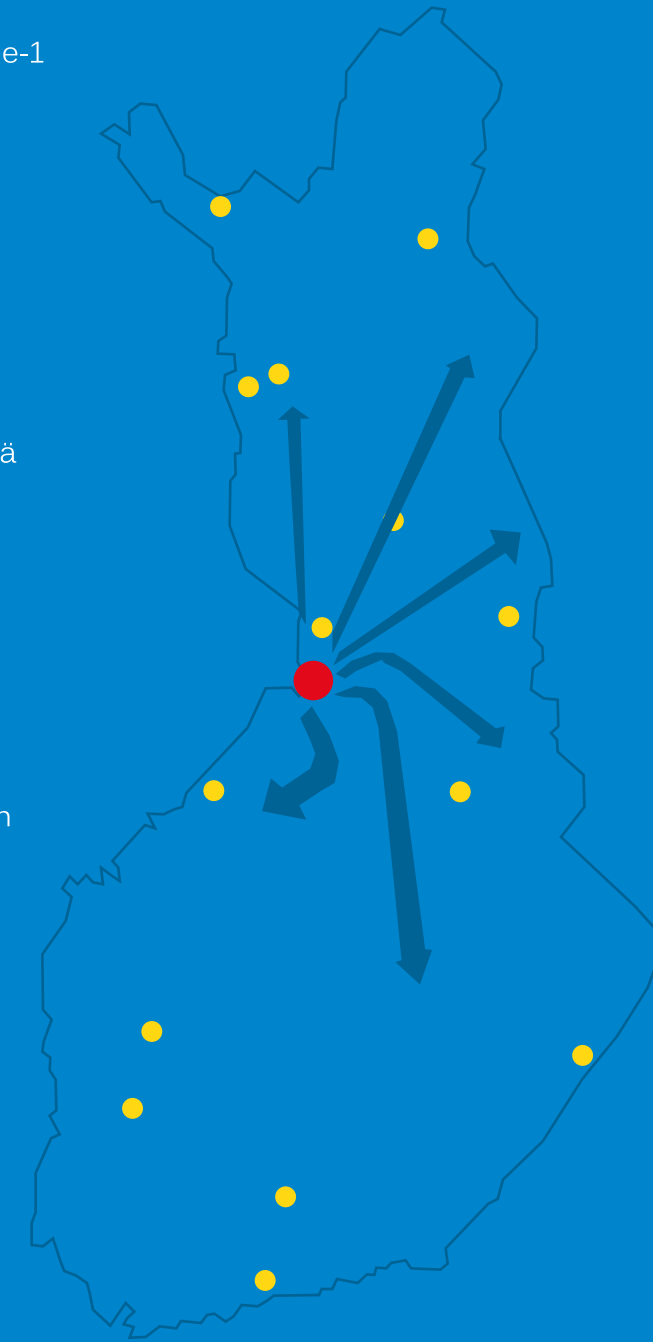
- **Office, commercial, and retail buildings, and showrooms**
- **Comprehensive and vocational-school buildings, and training centres**
- **Library, youth centre, and multipurpose buildings; churches; and parish centres**
- **Health centres, day-care centres, and old people's and nursing homes**
- **Sports buildings and facilities**
- **Hotels, restaurants, and holiday centres**
- **Regional planning and parks**



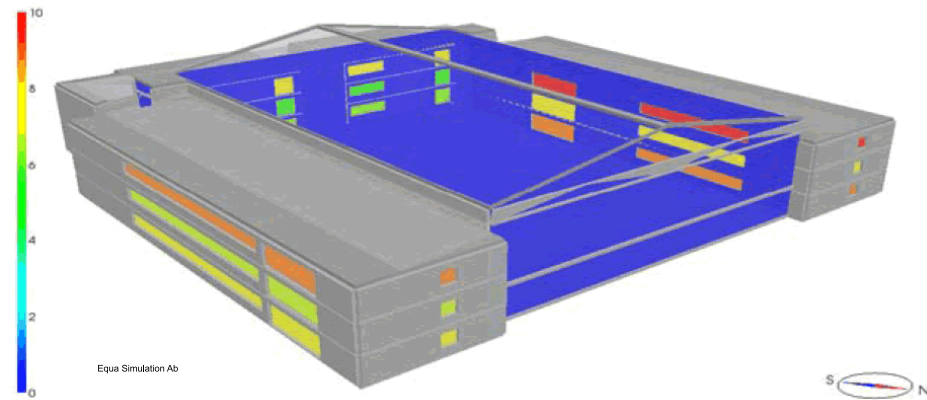
LVI-Sasto has planned sites all over Finland. Significant references include:

- the Caritas sheltered housing centre and Caritas stage-1 sheltered apartment village, in Oulu;
- Restaurant Uusi Seurahuone, in Oulu
- the Kaakkuri comprehensive school
- Oulu Central Library
- Oulu Cathedral
- Pesukopla Oy's truck washing facility
- the Hätälä fish processing factory
- Hotel Riekonlinna, in Saariselkä
- Levi's Hotel K5 in Kittilä
- nature and congress centre Levi Summit, also in Kittilä
- in Kalajoki, spa hotel Sani and an exhibition centre
- the Kaakkuri health centre
- complete renovation and expansion of the Raati swimming hall and sports centre
- slope-side hotel Panorama, in Kittilä, Levi
- the Kauhajoki school centre

In addition to more extensive public projects, we design HVAC and plumbing systems for housing companies, for both new buildings and renovation projects.



Our projects are around the Finland



3D design

In addition to condition simulations, we have expertise in 3D modelling and BIM-based IFC modelling.

Energy and condition simulation

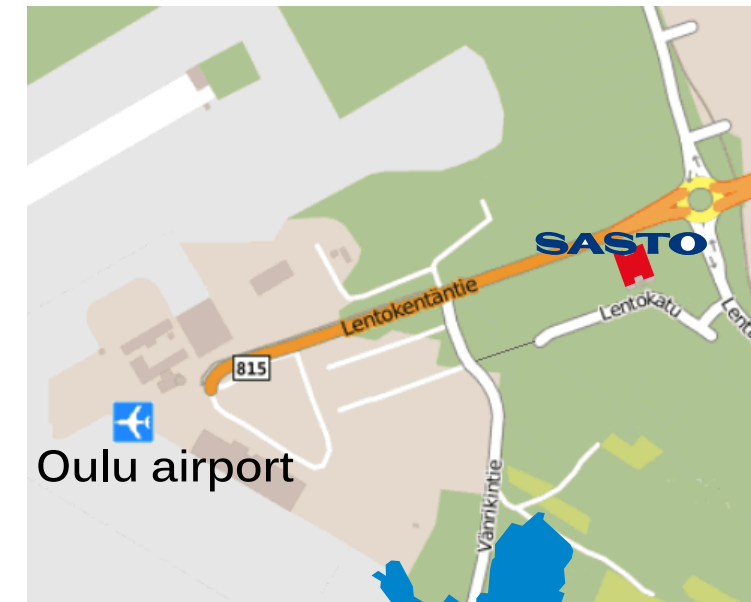
We utilise the IDA Indoor Climate and Energy software (IDA-ICE) for cooling load calculations and condition and energy simulations.

The model produced with the simulation software provides us with information about the indoor conditions and energy consumption our solution causes. We can use the software to calculate, for example, indoor and surface temperatures, sensation of draught, low humidity, overheating during summertime, and energy consumption (i.e., heat and electricity costs). This way, we can search for optimal solutions that meet the objectives set for the indoor conditions and energy consumption.

Location and contact information

Our office is located in Oulunsalo, in close proximity to the Oulu airport.

Our office building features high-quality conference rooms seating up to 30 persons. Restaurant service is available in the same building.



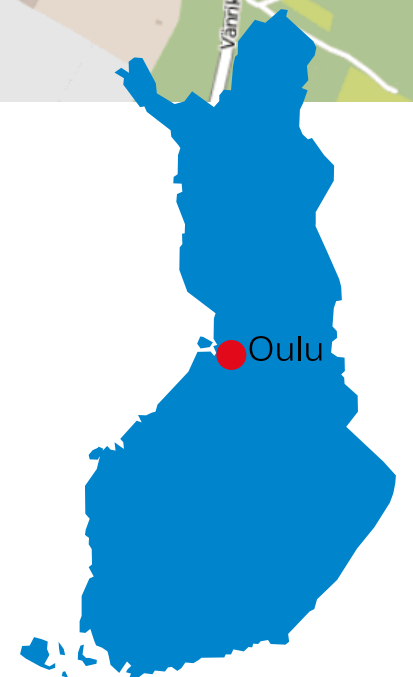
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