

## **LINUDANS - Research and development of high voltage towers.**

Reykjavik University is working in Collaboration with Linudans, research based company specialized in the field of electricity infrastructure.

The aim of the company is to develop environmentally friendly solutions to the existing and future problems regarding the growing energy transport. All products of Linudans are green and environmentally responsive. Linudans seek to combine ideally advanced engineering solutions, qualitative aesthetics and economically efficient production methods.

The *linudans project* is supported by RANNIS.

Research group and financial support for the project:

*Reykjavik University / [www.ru.is](http://www.ru.is)*

*Universität Stuttgart / [www.uni-stuttgart.de](http://www.uni-stuttgart.de)*

*Høgskolen i Sør-Trøndelag / [www.hist.no](http://www.hist.no)*

*Verkis, Consulting Engineers / [www.verkis.is](http://www.verkis.is)*

*Swerea SICOMP AB / [www.swerea.se](http://www.swerea.se)*

*VJI, Consulting Engineers / [www.vji.is](http://www.vji.is)*

*THG Architects / [www.thg.is](http://www.thg.is)*

*The Icelandic Innovation Centre / [www.nmi.is](http://www.nmi.is)*

*The Icelandic Research Centre / [www.rannis.is](http://www.rannis.is)*

Research and development in the field of high voltage towers is the main focus of Linudans. The company has developed an innovative concept which serves as a base for the development of new alternative solutions for electricity transport.

Transport of electricity could become a major problem in the future. Existing solutions seem to be both technically and aesthetically out-dated. Visual pollution associated with traditional solutions has been recognized as a real problem, as a result of growing environmental consciousness of people and society. The general public is no longer satisfied with traditional tower solutions. Protests and dissatisfaction with polluted environment is already today causing delays in transport of energy to consumers.

The expected expansion of electricity infrastructure is likely to increase dramatically environmental pollution, through utilization of traditional tower solutions. Linudans design aims at reducing the environmental pollution associated with the expansion of the grid, both from technical and aesthetical point of view.

Due to the interdisciplinary nature of high voltage tower design a wide range of specialists are involved in the design process, including among others engineers, architects and designers.