



# GREAT ELECTRIFICATION IN PEER-TO-PEER SOCIETY | SÄVÄYS

This new research project at the Finland Futures Research Centre of the University of Turku focuses on the full electrification of society, shaped by the uptake of renewable energy technologies and the new models of Peer-to-Peer Society (2018). Are such advances bringing forth a new narrative? Prof. Sirkka Heinonen is the leader of the research project, working with researcher Joni Karjalainen. The project is funded by STEK ry, Sitra and the University of Turku.

The aim of the *Great Electrification in Peer-to-Peer Society* (SÄVÄYS) science communication project is to describe the on-going rise of renewable energy, in particular solar and wind energy. The project describes a future society of emissions-free energy production where the energy system is almost entirely electrified and citizens act as energy producers. Citizens upload their surplus energy into the smart grid and download energy when needed. Low-cost energy, cheap and renewable raw materials, artificial intelligences, platforms that match supply and demand (of products, services and workforce) and digital manufacturing devices such as sophisticated 3D printing emancipate ordinary citizens to become responsible producers.

The transformation of the energy system aligns with the principles of a Peer-to-Peer Society. Peer-to-peer practices are based on the active participation and self-organising practices of citizens. Citizens share knowledge, skills, co-create, and form new peer groups. Citizens will use their capabilities also to develop energy related products and services. The research data were collected in the Neo-Carbon Energy research project (2014-2017), funded by Tekes - the Finnish Funding Agency for Innovation.

The project advances in three workflows, characterized by future-orientedness and futures consciousness:

- 1) An interactive Science Book, written in Finnish, presents the key research findings in a clear and concise manner (to be published later in English as well)
- 2) Through stakeholder engagement, the key messages will inform strategies for the transition of the Electricity Sector, contributing to the efforts to reach a Carbon-Neutral Circular Economy
- 3) Futures-oriented learning materials will be tailored for high schools, universities of applied sciences and universities in Finland

Please ask more if interested:

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