

# E Cloud-Home

How do we live together - possibility of free access and supply of energy in private and in different forms of housing.

**Hosted by:** Yujin Kang

## Project Information (EN)

### Context & Abstract

We experience extreme weather phenomena. The cause is our human activities. The current power supply system gives it problem that people can't choose which power to get in the system of centralized power supply. Therefore, among other things, a decentralized new power supply system is needed for the future. It is about self-sufficient energy supply in private households and sustainable lifestyle. How do we live together - possibility of free access and supply of energy in private and in different forms of housing. The product exists a platform on the existing digital technological basis, on which one can send money by no mediation. It allows users, when they are on vacation, to freely manage their excess energy. They could decide themselves if they want to use the energy, sell it or donate it somewhere. The modular system can be adapted to different types of housing.

### Design Research

Technology and Speculative Concept: For example, my conceptual design allows users to freely handle their excess energy when they are on vacation. Not only can the energy be bought or sold, but other possibilities such as swapping and donating it to someone else would be conceivable. If this principle could be transferred in a city, then only 50 percent of the houses need a solar plant and other half do not need it at home. Future living environment: People partially adapt their consumption behavior to the way they live and their living environment. The living space is always shaped by one's own style and taste, the apartment as an exterior can thus be a mirror of one's own attitude and individual norms, which then fill the living space materially to a certain extent.

### Design & Description

Designs: Everyone needs an energy storage device at home. My designs are an energy storage and the Internet of Things respectively a modular heater. With the heater, there is a small energy storage, so larger and smaller storage can be integrated. And with the app integrates different products that are available with different accompanying app. The battery used for the product thought is carbon nanotube fiber instead of lithium ion battery. Thus, it can be applied to different shapes of the surface due to the properties of the textile material. The internal material is to be reusable. The aim of this product is to adapt to different housing shapes and reflect and identify with people's individuality for transfer to future living spaces as characteristics of the product. E Cloud-Home is based on the idea of democracy and democratic design by allowing self-generated energy to be exchanged democratically between users and using the modular system of product elements (e.g. radiators and storage tanks) that can be adapted accordingly for different housing types and different needs.

## Projectinformatie (NL)

### Context en samenvatting

We hebben te maken met extreme weersverschijnselen. De oorzaak zijn onze menselijke activiteiten. Het huidige stroomvoorzieningssysteem geeft het probleem dat mensen niet kunnen kiezen welke stroom ze krijgen in het systeem van gecentraliseerde stroomvoorziening. Daarom is er onder andere een nieuw decentraal stroomvoorzieningssysteem nodig voor de toekomst. Het gaat om zelfvoorzienende energievoorziening in particuliere huishoudens en een duurzame levensstijl. Hoe leven we samen - mogelijkheid van vrije toegang en levering van energie in privéwoningen en in verschillende woonvormen. Het product bestaat uit een platform op de bestaande digitale technologische basis, waarop men zonder tussenkomst geld kan sturen. Het stelt gebruikers in staat om, wanneer ze op vakantie zijn, hun overvloedige energie vrij te beheren. Ze kunnen zelf beslissen of ze de

energie willen gebruiken, verkopen of ergens aan doneren. Het modulaire systeem kan worden aangepast aan verschillende soorten woningen.

Image List

| Filename                              | Caption                                       | Credit                                 |
|---------------------------------------|-----------------------------------------------|----------------------------------------|
| product-final-2_1695923425.jpeg       | E Cloud - Home / Product / Radiator           | 2022 / Yujin Kang / All right reserved |
| idea-energyssharing-2_1695923435.jpeg | E Cloud - Home / Idea / Energy sharing / City | 2022 / Yujin Kang / All right reserved |
| product-final-1_1695923502.jpeg       | E Cloud - Home / Product / Radiator           | 2022 / Yujin Kang / All right reserved |

The images above are included in the ZIP under /images.