

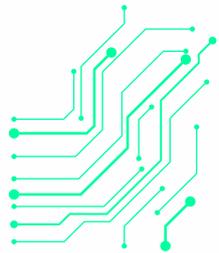
Hiven is a smart home energy management system for connecting and steering smart home appliances over the cloud (API) for the benefit of the consumer, energy company and the grid. EV charging and home heating is shifted to consume energy at the cheapest possible time to save users up to 50% on their cost of energy. Aggregated flexibility is provided to energy companies and grid companies as a service where consumption deviates from the expected profile. In the BC, Hiven will be researching ways to make this consumption profile deviation caused by energy company and grid needs, to be transparently reported and compensated. Hiven operates through a B2B2C-model integrating smart charging and smart heating systems as a value add to other existing B2C products such as EV's, EV charger applications, energy company applications etc.



TARGET GROUPS

B2C companies interested in providing transparent and trustworthy smart home energy management services to their B2C customers, like electric Vehicle and chargers manufacturers, Heat pump manufacturers, Energy companies, Electricity retailers.

THE ROLE OF DISTRIBUTED LEDGER TECHNOLOGIES AND MEASUREMENT REPORTING VERIFICATION



Consumers connected to the Hiven home energy management steering system will primarily be steered to consume energy at the cheapest possible times. Secondary steering logic will deviate consumers from the expected profile.

During the smart home energy management steering, the deviation for each consumer from their expected smart consumption pattern will be measured using Measurement Reporting Verification (MRV). This deviation will be communicated to customers and energy companies through Distributed Ledger Technologies (DLT) for the purpose of transparency.

CONTACTS



Jani Leirimaa, HIVEN
jani@hiven.energy
Gabriella Edberg, HIVEN
Gabriella@hiven.energy

BENEFITS



Reduced cost of electricity and maximized self-consumption.



Minimized CO2 impact for end customers.



Increased margins (e.g. electricity sales), new forms of revenue (e.g. Demand response trading) and decreased volatility risk on wholesale market for B2C companies.



Engaged customers for B2C companies.



New sources of flexibility for DSOs and TSOs.

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