

1. I4DAB-HandIn4

1.1. Participants

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3. Introduction

This assignment is about a microgrid, that can supply and connect to a number of households. These households each is a producer and a consumer, meaning that they will produce power from their renewable energy sources, and consume energy. This microgrid is only a smaller part of a larger whole and is either connected to a much larger grid or connected to a powerplant, where excess energy can be leveraged. Important to the microgrid is that it utilizes bitcoin and blockchain to handle transactions and cost of energy.

The assignment is to produce a solution which provide an API that can display information about the microgrid as a whole, access each prosumer and handle energy transactions between each prosumer. The assignment is required to use three databases, one or more Relational database and one or more NoSQL Database. The important part of the application is that it should supply information that can directly be used in bitcoin transactions via. blockchain.