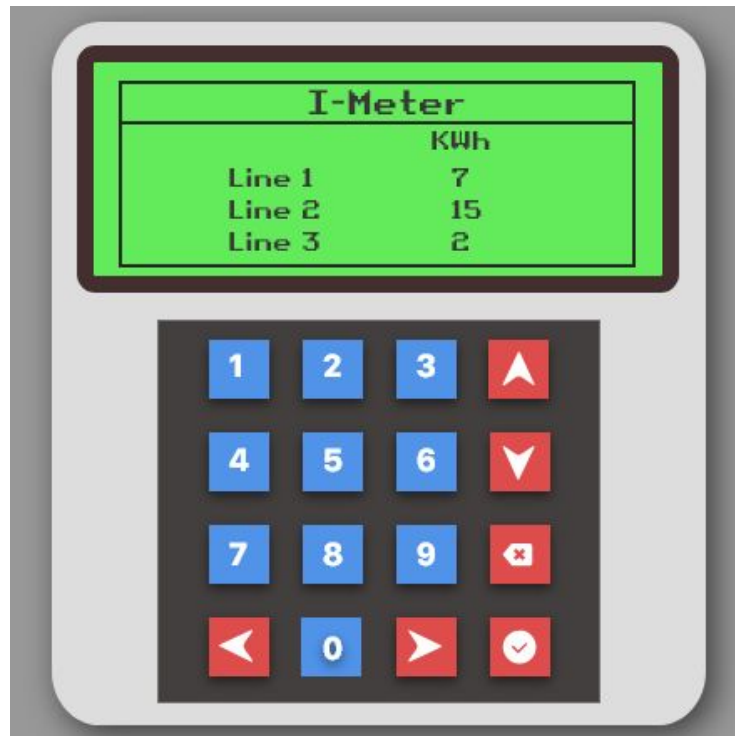


Smart Electrical Energy Meter.

1. Title of the project:

Shared meter.



2. Sector :

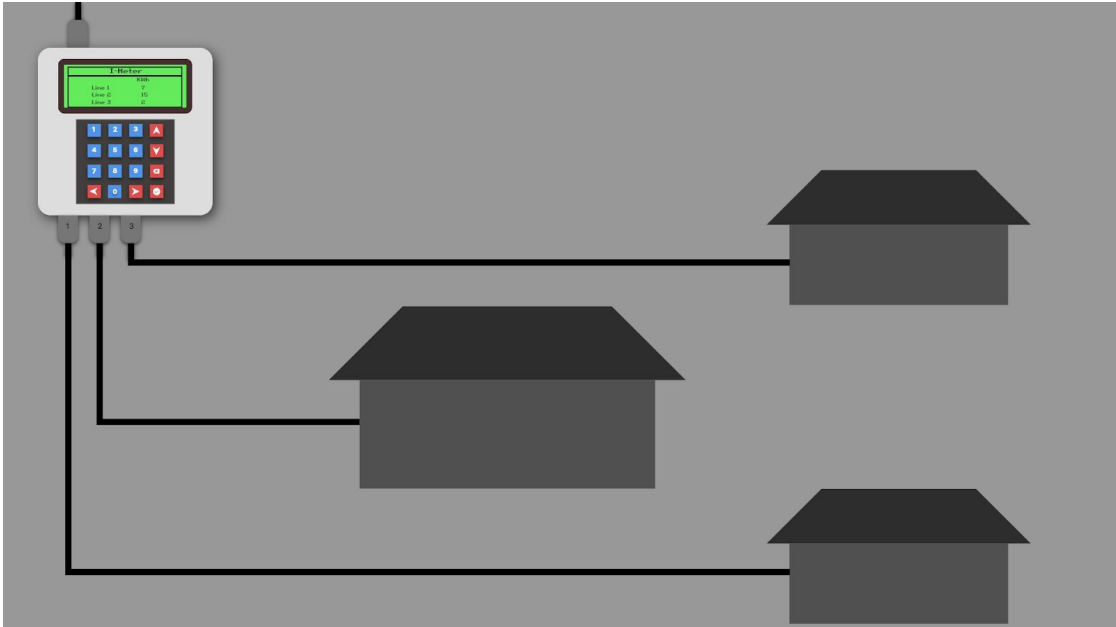
Our project will focus mainly on the energy sector specifically on the consumer end.

3. Brief description of a business idea :

In our country, Rwanda, especially Kigali city where the density of population is too high (approximated to be 6,500 per square kilometer in 2019), the number of electricity consumers has dramatically risen from 360,000 to 700,000 users in only three years period from 2012 to 2015. As a large number of people have been in need of electricity and yet energy meters are expensive the solution in place is only to share one energy meter among the neighbors to have electricity. This has raised the issue of misuse and bad management of power consumption

among tenants that affect the efficiency of power distribution to the end-user. Mainly this is due to lack of daily data of power consumption for each user. It also causes the mismanagement of electricity energy in a way that the users have no means to get notifications regarding the meter balance to buy in advance or plan accordingly. Users also claim that the installation of many energy meters in one place can cause the electric shock which can rise to the loss of people's lives.

As younger innovators and entrepreneurs, we take social problems as opportunities to take on and provide solutions. We are developing an embedded system with a software application that can solve problems facing the already in place energy meters. Our system will serve three users at the same time as an extension to an already existing energy meter. Every user will get daily data of his channel through the **Shared meter** mobile app and display. Using our system there will be no need to remove the existing power meter, it will work with. The **Shared** meter will be affordable compared to the existing ones and this system will facilitate EUCL to achieve its policy which is said to promote safe, efficient, competitive production, procurement, and distribution of energy.



1 - meter will serve three renters at the same time.