Robotina Whitepaper

Worldwide, the total consumption of electricity reached almost 20.000 TWh1 with an average price of 0.14 USD per KWh, which equates to USD 3tn per year! Commercial buildings account for 40-50 % of this amount. Besides the growing consumption, the key issue in the power industry is the unpredictability of supply and demand of electricity, such as the influx of renewable sources, e.g. solar panels and wind turbines. They are not producing electricity when there is no sun/wind and they cause an excess in the grid when the weather conditions are favourable. On the other hand, there are more and more electric vehicles charging which is very unpredictable. Both issues make the electricity grid extremely unstable, which causes high costs of the system's operators and also high costs for the end-user. These situations require substantial investments in new infrastructure and smarter use of the existing one. In order to sustain our actual standard of living, we must reduce (per capita) and shift (in time) the consumption of electrical energy.

This is exactly what Robotina, with its 28 years' experience, delivers to households and businesses. With the Robotina Platform, the future is HERE. We have tested, demonstrated and validated, that we can save 10-20 % by using state-of-the-art technology, which is available and feasible NOW2. In our vision, our community members collaborate in order to save and earn money while consuming electrical energy. This vision becomes reality with the deployment of the Robotina Platform.

The Robotina Platform will be a vertical, high-tech all-inclusive enabling solution, consisting of connected Internet of Things (IoT) elements (things, processes, data, people) and the Power Platform (PP). It will use Smart Rules, Artificial Intelligence and Blockchain

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technologies. It will
be run in the cloud, available as a service. Robotina Platform and connected IoT will execute
thousands of calculations per second. Each calculation will result in a small benefit and a small
slice of revenue, which will accumulate every second. At the end of the day, this will become
the driving force of the business. Artificial Intelligence, machine learning, patented multiobjective optimization and blockchain technology allows us to disrupt the electricity
market and implement a collaborative sharing economy business model, which distributes numerous benefits to the participating users.
We will ‘empower people’ to become our partners in revolutionizing the traditional power
network. It is about a new paradigm of designing and operating the electrical power system
with the objective to improve its efficiency, to enhance user engagement, increase service quality,
and save costs in power generation, distribution, and consumption. Constant negotiations
between the community members with aggregated data and the smart grid will enable us to
create a state-of-the art disruptive business model.

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