

Brownie was Awarded with the European Commission's Seal of Excellence

10 October 2019

We are very proud to share that the European Commission recently awarded Brownie with the Seal of Excellence for the value of its proposal submitted to the call to the "Horizon 2020 SME instrument", acknowledging Brownie's solution as a first-class innovation worthy of investment.

Brownie's proposal was evaluated in a highly competitive evaluation process by an international panel of independent expert-evaluators with different profiles, such as technology/industry sector, business, and finance expertise. The evaluation process was based on three main criteria – Excellence, Impact and Quality & efficiency of implementation. Brownie scored 'very good to excellent' in all three criteria. This prestigious recognition is a great feedback for Brownie.



“We are very proud and honored that Brownie stood out among thousands of other proposals and was recognized by the European Commission for its innovative approach in developing a comprehensive solution for securing smart grids from cyber threats. We will keep working hard to achieve our commercial and development targets for Brownie.”

Dr. Hana-Muriel Setteboun, Brownie's CEO.

About Brownie's Solution

Brownie's solution provides an innovative approach to protecting power grid, gas supply networks, and water utilities' infrastructure by developing a next-gen Air Gapping System for grids and networks. Based on Brownie's unique IP and thorough understanding of the relevant communication protocols used in grid and network environments, Brownie has developed a comprehensive software-based solution which applies a pattern-based, together with a heuristic-based, defense mechanism, enabling Brownie to both detect and prevent potential attacks on critical infrastructure.

Brownie Solution provides a real-time IPS solution for the Smart Meter's wireless protocols. These include 2/3G, ZigBee Smart Energy and ZWave. The solution prevents attacks in real-time, minimizing the number of false-positives using a proprietary machine-learning algorithm developed internally. Brownie's solution supports all major Smart Metering manufacturers, such as Itron, Landis+Gyr and the Elster Group. The solution is agnostic to the utilities' Smart Meter rollout stage and future upgrades in the Smart Meters' types and models, as it could be implemented and updated, remotely Over the Air (OTA), rendering physical connection to the consumers' premises unnecessary.

In addition, Brownie's solution effectively air-gaps all incorporated servers from unauthorized entries communicated through the AMI network. This ensures attackers will not be able to communicate with the



exposed servers in any way, rendering OTA attacks meaningless. The solution supports many different types of critical servers, including the billing, power management and database servers. The solution is completely software-based and agnostic to the underlying hardware, making installing and updating it remotely trivial.



The unique combination of all these various layers in a one comprehensive solution while implementing our innovative technologies, establishes the following key benefits:

- End-to-end solution, protecting both the consumer and the utility
- Complete software-based, hardware agnostic solution
- Supports an extremely wide range of network topologies and infrastructures
- Making other security solutions redundant

About Brownie

Brownie Technologies Ltd. is a startup focused on developing an innovative software-based agnostic solution to protect and immunize smart electricity, water and gas meters from cyber threats.

Brownie was founded in 2018 by Dr. Hana-Muriel Settboun, an expert in the power industry with more than 15 years of experience in entrepreneurship and management of start-ups as well as large international corporations, and by Mr. Netanel Rubin, a world-renowned cybersecurity expert with outstanding international experience in vulnerability research.

Visit Brownie's website for additional information: www.browniesolutions.com

European Commission Seal of Excellence



The Seal of Excellence is a quality label awarded to project proposals submitted to Horizon 2020, the EU's research and innovation funding programme, to help these proposals find alternative funding. Projects which were judged to deserve funding, but did not get it due to budget limits, receive the Seal of Excellence. It recognizes the value of the proposal and helps other funding bodies take advantage of the Horizon 2020 evaluation process.

