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The same applies if you are one of the owners or beneficiaries of the company, whether or not you are authorized to act on its behalf.

INDEX

	DISCLAIMER	2
<u>1.0</u>	INTRODUCTION	6
1.1	Overview	. 6
1.2	Ethereum	6
<u>2.0</u>	PROSUME FOUNDATION	6
<u>3.0</u>	PROSUME'S PROJECT	7
<u>4.0</u>	PROSUME'S PLATFORM	8
<u>4.1</u>	Platform Description	8
<u>4.2</u>	Platform Functioning	8
<u>5.0</u>	PROJECT AND PLATFORM ADVANTAGES	9
<u>6.0</u>	PROJECT FEATURES	9
<u>7.0</u>	PROSUME APPLICATIONS	10
7. 1	Crypto-equity for renewable energy projects	10
7.2	Peer-to-peer energy exchange platform	10
7.3	Smart community energy aggregator development	10
7.4	Smart metering / billing / energy (sustainable behaviour)	10
7.5	Storage + Transmission exchange (load balancing)	10
7.6	Electric vehicle platform	10
7.7	Trading and managing oil & gas assets with blockchain technology	11
<u>8.0</u>	TECHNICAL OVERVIEW	11
<u>9.0</u>	PROSUME ROADMAP	12
<u>10.0</u>	PROSUME TOKEN GENERATION EVENT	14
10.1	Term Summary	14
10.2	PEF Token	14
10.3	PEF Token Bonus Structure	15
10.4	Allocation	15

1.0 Introduction

1.1 Overview

The advent of the blockchain technology has introduced the world of decentralization and is challenging our preconceived perspectives of the current social, political, and economic systems. The rapid advancement of this technology has begun to blend the world borders and statute, providing glimpses of an improved, alternative future. Yet, the technology is still at its infancy and is plagued with shortcomings in terms of performance, ease of use, and service quality.

Generally, the majority of blockchain projects place emphasis on their decentralization methodology and lack evidence of adoption in the real world.

1.2 Ethereum

Launched in 2015, Ethereum was the first project to introduce the concept of "Smart Contract" in the blockchain world opening the unforeseen possibilities of Decentralized applications(DAPPs). Ethereum is widely considered the greatest milestone in blockchain technology since the first introduction of Bitcoin by Satoshi Nakamoto; therefore, is referred to as Blockchain 2.0. It paved blockchain application beyond simple cryptocurrency transaction to a wider use of the technology including in the financial services industry. Ethereum is gaining popularity as a Token Generation Event due to the simplicity of ERC20 Token generation.

2.0 PROSUME Foundation

The Prosume Foundation is a non-profit organisation that is responsible for the development and management of the Platform according to its Project. All contributions received by the Foundation during the Token Generation Event will be utilized to support the Project and Prosume's roadmap.

The Foundation will collaborate with different contractors to achieve its goals, as well as governments, businesses, academia and NGOs committed to realizing collaboration potential in communities around the world.

3.0 PROSUME's Project

Foundation's Project is aimed to develop a blockchain-based Platform to allow users to buy and sell electricity and gas from renewable and fossil energy sources using smart contracts.

The Platform will deal with many of current issues related to energy sector, like support for regulation frameworks, fair policy pricing and new business models and opportunities.

The Platform aims to be the most reliable energy community dealing with the real Levelized Cost of Electricity (LCE) and b.u.t. (thermal), in order to buy and sell energy with an approach based on:

- SUSTAINABILITY
- TRANSPARENCY
- TRACEABILITY
- ACCESSIBILITY
- DECENTRALIZATION
- DIGITIZATION
- DECARBONIZATION
- FLEXIBILITY
- RESILIENCY.

In particular, the Platform will:

- connect electricity producers (the "Producers") and consumers (the "Consumers") to trade and exchange
 energy in a decentralized on-line market, combining an energy trading platform to a monitoring system;
- provide a decentralized, autonomous, independent and digitized smart marketplace, allowing the trade of different energy sources, as well as promoting and accelerating decarbonization actions;
- · maximize the efficiency of fossil fuels, minimizing their impact on our environment.

Communities, grid-operators, utility companies and energy services companies' (the "Operators") will administer their own local energy platforms using a permissioned blockchain, that can be linked to federated zones.

PEF Tokens will enable Producers and Consumers (collectively, the "Prosumers") to buy electricity and gas assets delivered by various sources and providers through the Platform.

The development of the Project and of the Platform will be supported by the Token Generation Event.

4.0 PROSUME's Platform

4.1 Platform Description

The Platform is a blockchain enabling peer-to-peer energy trading platforms to build transactive energy networks into a decentralized energy market, fostering the transition to a new economic model for energy production, distribution and storage.

The Platform will be used by utility companies, grid-operators, system integrators and communities to easily build local ecosystems and on-line marketplaces.

4.2 Platform Functioning

The Platform connects independent Producers, Consumers, innovative utility companies and energy communities in a locally shared market where each peer is free to sell and buy energy in a multi-tenant ecosystem.

The Platform allows Prosumers to directly trade electricity and gas from renewable and fossil energy sources in a market where the final price and quantity are determined by trading algorithms based on auction clearings on the blockchain.

Producers and Consumers will determine the bid and ask price of electricity while the trading algorithms and smart

contracts will do the matching and the settlement.

The minimum and maximum prices of electricity are determined by standard contracts as established by local regulators and actual players (DSO/TSO/Utility/Authority).

The Prosume mobile App will provide access to the Platform allowing to choose and match different profile presets for:

- · the best offer;
- · the most green;
- · the most customized;
- the nearest local offer.

Consumers will choose according to their needs, possibilities and ethics.

Producers and Operators will provide offers within their capacity and they will compete with other players on the digitized on-line market.

Producers and Consumers will have to join and register on the platform and trade energy using PEF Tokens.

5.0 Project and Platform Advantages

The Project, using a blockchain-based Platform, is aimed to:

- · promote the self-consumption and self-sufficiency of energy, and a local energy storage community process;
- enable independent renewable energy players to sell energy at a fair price (according to the local legislative framework);
- foster Consumers freedom to choose available energy sources;
- enable energy Producers to find new Consumers and develop smarter energy policies and business opportunities using the Platform for market analysis;
- improving the reliability of rural and off-grid areas' access to energy;
- · create transparent transactions through smart contracts;
- · improve energy sources traceability;
- · increase decentralized energy competitiveness.

6.0 Project Features

The Project aims to empower:

- Consumers' flexibility to choose power sources;
- small independent Producers (better price and bigger market segment);
- utilities with new market opportunities (utilities can serve a niche market);
- · Prosumers (individual Producers can sell their extra energy at the best price to other Prosumers);
- reduction of grid maintenance costs (physical traceability and implement forecasted production of intermittent renewable energy sources);
- local community storage (the Platform makes it more convenient to store energy in a shared neighbour-hood battery system;
- trustworthy deals through smart contracts;
- local energy communities (the Platform promotes local energy community development policies).

Furthermore the Project aspires to:

- educate Consumers (traceability of the energy sources);
- · provide safer and reliable payment method;
- deregulate through market demand;
- digitize of energy assets;
- · promote environment vs fossil mix policy approach;
- · reduce and preserving fossil fuels.

7.0 Platform Applications

The Platform will be flexible enough to integrate the Operator application needs. The following proposed applications will be provided on a B2B model to the partners managing the local infrastructures and installed capacity.

7.1 CRYPTO-EQUITY FOR RENEWABLE ENERGY PROJECTS



With the Platform, Prosumers are incentivized to participate in the promotion, use and exploitation of renewable energy plants and storage assets owned by the community. This will reduce the cost of production and the implementation of neighbourhood storage and power plants.

7.2 Peer-to-Peer ENERGY EXCHANGE PLATFORM



The Platform provides its users with a simplified payment method to acquire energy (by different tools) receiving a direct benefit on transaction costs and reliable data forecasts.

7.3 SMART COMMUNITY ENERGY AGGREGATOR DEVELOPMENT



The Platform will empower people to participate in specific aggregators' requests of energy demands, where Consumers can choose from different energy sources with specific criteria: green; local; fossil; sustainable, reducing intermediary costs and receiving benefits by participating in local energy community incentives.

7.4 SMART METERING / BILLING / ENERGY (Sustainable Behaviour)



The Platform will digitize and empower Consumers with autonomous, independent, and reliable data. Data analysis functionalities and production and consumption forecasts will promote virtuous and sustainable energy Consumers' behaviour.

7.5 STORAGE + TRANSMISSION EXCHANGE (Load Balancing)



The Platform will empower the production of renewable energies to be used during peak periods.

With the use of storage systems and blockchain technology it is possible to forecast and manage load balancing more profitably, thus reducing grid costs and promoting a better energy-mix policy, independently and reliably. Consumers will boost the electricity grid balancing through demand response.

7.6 ELECTRIC VEHICLE PLATFORM



The Platform enables electric vehicles management, data collection and identity management in a fast and reliable way, empowering electric vehicle rentals with energy barter systems.

7.7 TRADING AND MANAGING OIL AND GAS ASSETS WITH BLOCKCHAIN TECHNOLOGY



The Platform empowers Consumers to use fossil fuels in a smarter way, promoting decarbonization within a more complete mix of energy policy, using different sources of energy in the most sustainable way. By minimizing the consumption of fossil fuels the Platform builds a proper balance between the real Levelized Cost of Energy (LCE) production and the ecological footprint, taking into account the real cost/benefit factor, timing and terms of use.

8.0 Technical Overview

Platform provides a modular solution that enables local communities to share internet and energy peer-to-peer while optimizing the complexity and cost to build and manage micro-grids and local community networks.

It is based on blockchain technology, IoT devices, opensource software and standard protocols making it compatible with existing infrastructures.

The use of the blockchain technology provides a crypto-currency and "wallet" to manage easily, transparently and safely the value generated.

The Platform allows the sharing of data and energy on a peer-to-peer basis by drastically simplifying the adoption of decentralized and distributed technologies.

Main features of the services provided by the Platform consist of:

- integration of Power-Plant and Micro-Grid management on the ESCO model (Energy Sharing Company);
- peer-to-peer exchange of electricity;
- blockchain technology with crypto-currency and crypto-equity assets (with the option to convert this "energy-currency" into other "local currencies" and/or flat money);
- Platform's (and Project's) aim is to improve efficiency while reducing time and costs in building and managing network and energy infrastructures. Combining the network and the energy layer to build an internet of energy, the Platform will reduce points of failure and the need for additional hardware because of its adaptability in integrating with available and installed technologies. It spreads the intelligence on the devices that manage the energy, the data exchange and the gateways that acts as metering devices, managing the exchange of energy related assets. A more resilient and reliable infrastructure that supports the IoT deployment through the adoption of common standards (no lock-in effect) and providing higher levels of security and granular privacy definitions.

The Platform will introduce the TFT (Transaction Fee Token) Token to support the development of the peer-to-peer energy exchange system for Prosume's P2P solutions and interconnect different permissioned blockchains.

The TFT Token runs on each of the private permissioned blockchains installed in each project and empowers users to

use the system, giving the local project the fee needed to maintain the system.

The Token Generation Event will be launched using the Ethereum Blockchain and developed through a smart contract. The main difference between PEF Token and the existing crypto-currencies is that PEF Tokens exchange function will be implemented on the Platform allowing the Prosumers to exchange their PEF Tokens into local TFT (Transaction Fee Token) Tokens on any wallet in any Platform installations around the world. The TFT Token will be used in all the Platform transactions (Energy read, Meter read, etc).

5.0 PROSUME Roadmap

The Project includes the realization and implementation of:

- a Private Locked Trading Platform (PLTP) that is a platform that can be deployed in energy communities,
 where prices will be locked (albeit changeable over time) and where utilities will provide the service and
 peer-to-peer is not permitted by country legislation;
- Private Unlocked Trading Platform (PUTP) that is a platform that can be deployed in energy communities
 where the legislative framework allows to exchange energy peer-to-peer. The price will be managed by a
 platform exchange system with ask/bid orders and prices will be decided by the community in a "free market";
- a Public Trading Platform that is a public platform where peer-to-peer will be allowed even between different regional platforms and where Prosumers will be able to sell (and buy) energy from any other Prosumers on the Platform (with a raising fee mechanism based on geographical distance and type of energy token).

Additional functionalities will be added and upgraded to the Platform to provide services such as flexibility market operation, assets visualization across the value chain (substations, lines, EV chargers), integration of the business process in the regulatory framework.

Once the successful implementations in pilot sites are completed, Prosume will export the model throughout strategic partnerships across the value chain.

The roadmap of the project:



10.0 PROSUME Token Generation Event

10.1 Term Summary

TOPIC	DESCRIPTION	
PEF Token	The ICO will be based on an upgradeable ERC20 derivate Token named PEF Token on the Ethereum platform	
The launcher	Prosume Energy Foundation, a Swiss nonprofit organization/foundation	
Rights	 No rights, claims, interests or the like whatsoever, in particular; no voting, membership, redemption or repayment rights; no sharing of revenue, dividends, equity, interest, etc. 	
Refunds	None	
Listing	DEX (immediate with ETH) Exchange partners	

Persons participating in the Token Generation Event are fully aware that by participating in the Token Generation Event or any related event, they shall not acquire or receive in whatever way any rights, claims, interests or the like whatsoever, in particular no claim for the restitution of what they made available in the course of the Token Generation Event. In that sense, the Token they receive for their participation in the Token Generation Event ultimately may or may not have any value. By participating in the Token Generation Event, there is a high risk that anything of value they made available for the purpose and in the course of the Token Generation Event will be lost and without any value whatsoever, in particular if the Project fails or the Foundation goes bankrupt or enters into any comparable proceedings.

Furthermore, it is in the Foundation's sole and exclusive discretion how and when to use the contributions received in the Token Generation Event.

10.2 PEF Token

In order to support its Project and its roadmap above, Prosume is launching a Token Generation Event based on upgradeable ERC20 derivate Token named PEF Token on the Ethereum platform.

Prosume will be implemented on the public Ethereum blockchain as an ERC20 token. The Ethereum blockchain is currently the industry standard for issuing custom digital assets and smart contracts. The ERC20 token interface allows for the deployment of a standard token that is compatible with the existing infrastructure of the Ethereum ecosystem, such as development tools, wallets, and exchanges. Ethereum's ability to deploy Turing-complete trustless smart contracts enables complex issuance rules for cryptocurrencies, digital financial contracts, and automated in-

centive structures. These advanced features and active ecosystem make Ethereum a natural fit for Prosume.

The PEF Token will be upgradeable using an opt-in mechanism for future upgrades, the PEF Token will be non-transferable until the Token Generation Event ends.

The Token Generation Event contract will have a bonus strategy coded in following the scheme outlined below.

The Token Generation Event contract will implement a kill switch mechanism in case any issue arises during the event.

The Token Generation Event contract will have a limit of 50000 PEF Tokens in order to facilitate a uniform Token Generation Event process. Multiple transactions are allowed.

The token accepted for the Token Generation Event are ETH (ethereum) BTC (bitcoin) and LTC (litecoin).

The relative exchange rates between BTC and ETH and LTC and ETH are ultimately determined at the end of the Token Generation Event process and will determine the exact amount of PEF Tokens for both BTC and LTC.

The Token Generation Event (early period) will start on the 27th of September 2017 and last until the 5th of November, providing early adopters and strategic partners the chance to exchange tokens for ETH or BTC or LTC with a significant Bonus. The following period of the Token Generation Event will start in November and will last for 6 weeks, with a different bonus rate every week limited to a certain size.

10.3 PEF Token Bonus Structure

PRE - Token Generation Event	limited to 80.000 ETH	47%
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The Prosume Energy Foundation reserves the right to close any bonus level and / or the Token Generation Event earlier.

10.4 Allocation

The total amount of PEF Tokens generated by the Token Generation Event will be generated token for token by PRO-SUME as reserves at the end of the Token Generation Event. All tokens will then be assigned to the Prosume's wallet. The 30% of the PEF Tokens held by Prosume will be released for transfer after the Token Generation Event ends. Another 10% will be distributed amongst Prosume's team founders and advisors but held for 12 months (no transfer will be allowed).

The remaining 60% of the PEF Tokens held by Prosume will be kept by the Foundation and released later, following a schedule of 10% at each step of the Prosume's roadmap. This operation will release all the PEF Tokens available on the market by 24 months from the end date of the Token Generation Event.

The reserved PEF Tokens will be under the purview of the Prosume Energy Foundation, locked under the Prosume contract and used strategically to grow the Prosume ecosystem and support the activities of the Foundation. The Prosume's allocation will be used for three purposes: to administer PEF Tokens supply and Platform development, for marketing purposes, and for operational costs.

- Platform Development: Prosume will use the reserved PEF Tokens to support the development of the Platform and reward individual developers and advisers.
- Marketing: a supply of reserved PEF Tokens will be used to generate a starting balance for Prosume's partners and advisors.
- Operational Costs: Prosume was established to ensure independent governance and growth of the Project.
 A portion of PEF tokens will be allocated to support ongoing operational, legal, and development costs.

The PEF Token and Token Generation Event contract source code (written with solidity) will be delivered before Token Generation Event starts on github at the Prosume github page (https://github.com/prosume/prosume-ico) for community review and auditing.