

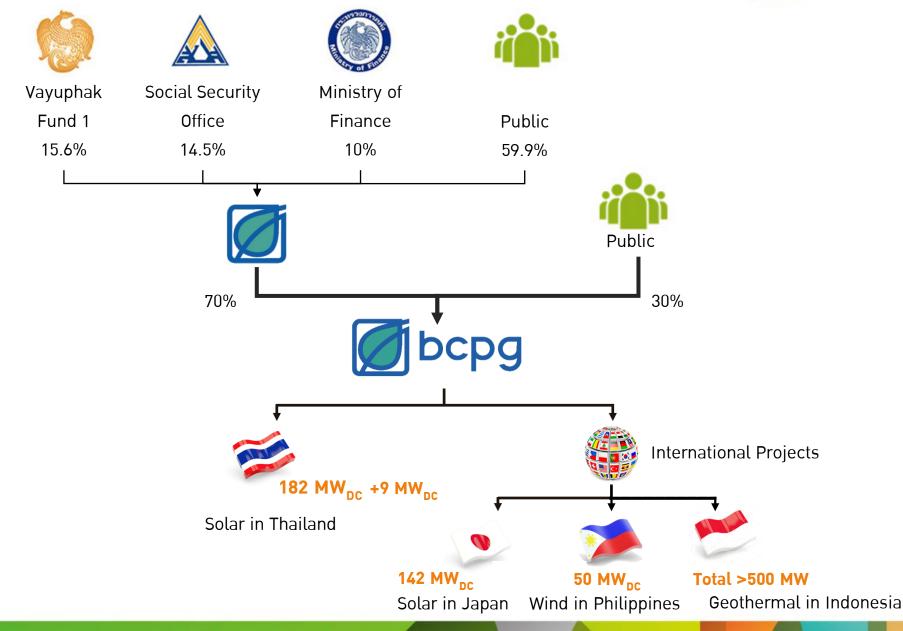
BlockChain and Power Trading As P2P Energy Trading

BCPG Public Company Limited September 2018



Who are we?







Disruption on traditional models

from generation to beyond the meter



ELECTRIFICATION

Critical to long-term carbon goals and will be a relevant distributed resource

Key technologies:

Electric vehicles, vehicle to grid/home, smart charging, heat pumps



DECENTRALIZATION

Makes customers active elements of the system, though requires significant coordination

Key technologies:

energy efficiency, solar PV, distributed storage, microgrids, demand response,

DIGITALIZATION

Allows for open, real-time, automated communication and operation of the system

Key technologies:

Network technologies (smart metering, remote control and automation systems, smart sensrs) and beyond the meter (optimization and aggregation platforms, smart appliances and devices, IoT)

From Decentralized Concept to Blockchain of Energy Trade



Decentralized Networks

Decentralized networks redistribute power from a central server, enabling peerto-peer communications



4. New Blockchain Platforms

New platforms, such as Etheruem allow developers and consumers to take advantage of decentralized networks



6. Energy Opportunity

Globally, current energy pilots range from P2P trading, IOT appliance level control, and bitcoin enabled bill-pay





1. Introduction

Over the past few years, developers have begun using Bitcoin's underlying technology, blockchain – for creative new applications



3. Smart Contracts

Smart contracts are account holding objects on the blockchain containing code that can interact with other contracts, make decisions and store data



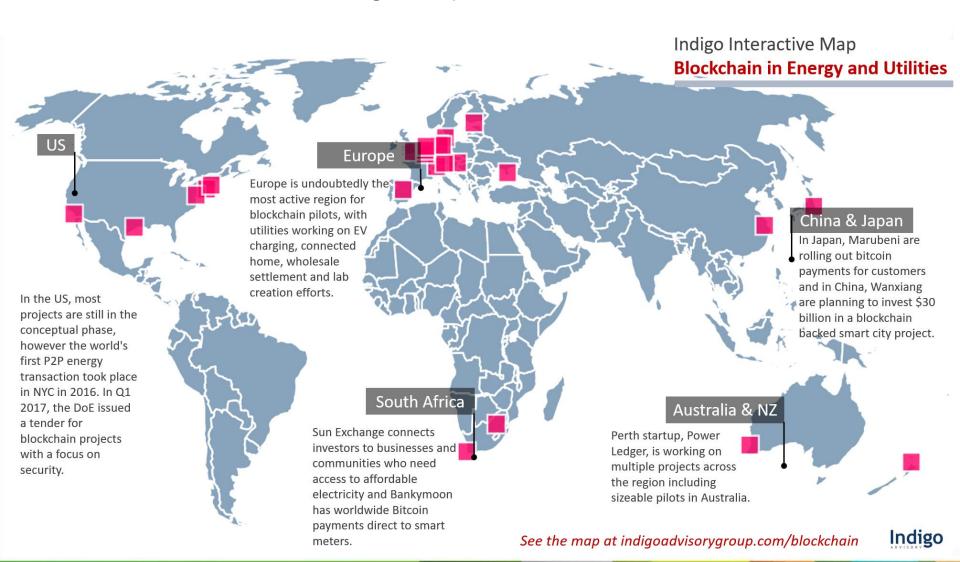
5. Applications

A Decentralized Application (or 'DAAP') is a piece of software consisting of a user interface (UI) and a decentralized blockchain backend

BlockChain is a Solution of Energy Transaction



Efficient / Sharing Ecosystem / Reliable / Traceable



Peer to Peer Energy Trading with Blockchain







Applying Blockchain Technology to create energy trading platform and become Green Energy Sharing Ecosystem



I want to purchase the green electricity but I did't install solar



My solar generation is not enough for today usage, I want to buy from my neighbors



Partnership to Create Green Community



















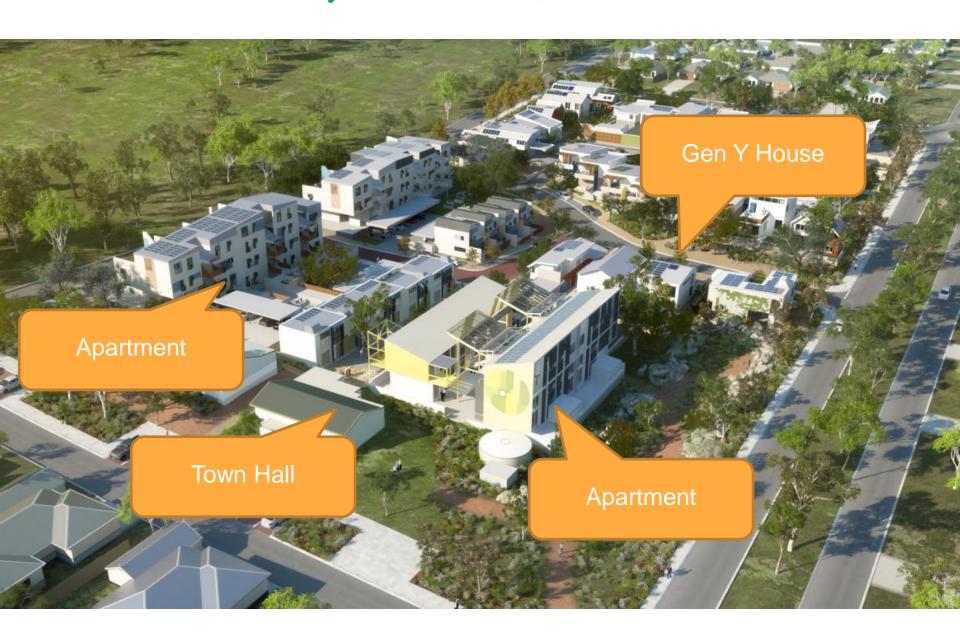
Introduction

The Democratisation of Power

THE SOLUTION

// DISTRIBUTED // LOW COST // LOW CARBON // CONTROLLED **BY THE CUSTOMER**

White Gum Valley: Fremantel, Western Australia



T77 @ On-Nut is the Best Location for Start









Thank You

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