

Power Transition to Collaborate With Idam Infra for Future Energy Systems in India

Collaboration proposes to accelerate the digital transition of Energy Systems using distributed ledger technologies (DLT) in India.

UK/India September 2021 - [Power Transition Ltd \(PTL\), UK](#) is among sixteen innovators selected for an [Energy Launchpad International \(ELI\) virtual mission to India and Thailand](#). This Innovator Challenge managed by [Energy System Catapult \(ESC\)](#) is supported by the Prosperity Fund at the Department for Business, Energy & Industrial Strategy (BEIS), in partnership with the [Foreign, Commonwealth & Development Office \(FCDO\)](#) and the [Department for International Trade \(DIT\)](#) of Government of United Kingdom. With this support, PTL intends to implement its distributed ledger technology (DLTs) energy trading business models in India in partnership with [Idam Infrastructure Advisory Pvt. Ltd.](#)

Peer-2-Peer (P2P) energy trading, facilitated by technologies like Blockchain or Distributed Ledger Technology (DLT), have the potential to transform the energy grid, provide network optimisation, manage and track losses. P2P energy trading can enable anyone to produce and sell energy to their peers, thus disrupting the traditionally centralised and heavily regulated energy sector across the world. PTL's technology is unique in that it is built on the [Hedera Hashgraph](#) DLT network already used by the Australian banking system (EFTPOS), selected for speed, low cost of transaction and ultra-low carbon footprint which is scalable and ideally suited for the energy sector.

On PTL's collaboration with Idam Infra, Mr. Karl Walker, COO – Power Transition said, "Our vision is to support the Indian Government's policy intent of supplying more green electricity to each home. Our technology will support intermittent renewable generation and address fuel poverty. I am very enthusiastic about the opportunity provided by the UK Government's Energy Launchpad Initiative. This provides us with a head start in India." He stated that PTL's Digital Energy Platform technology is highly relevant in the Indian context as its energy intensity and carbon footprint is very low, plus it's very fast and affordable to operate, compared to other blockchain/DLTs.

Mr. Balawant Joshi, Managing Director said, "The [Ministry of Power](#) has recently announced [Revamped Distribution Sector Scheme](#), which promotes the latest technologies such as Artificial Intelligence, Machine Learning and Blockchain in the distribution Sector. This scheme is going to be a catalyst for development and deployment of these technologies in India. Like rooftop solar, the market for blockchain technology is also likely to expand rapidly. With falling prices of Battery Energy Storage Systems (BESS), it is expected that BESS would be deployed at large scale which would create the need to optimise both distribution and generation assets on the edge of the network. The DLT-blockchain technology would fill this void."

PTL's platform provides common operating language for energy trading, enabling millions of buildings, vehicles and devices to become vital parts of the energy system, tracking carbon and enabling the transition to a zero-carbon economy. It will enable safe, secure and fair transactions that will help to significantly reduce electricity distribution losses, directly benefitting the consumers. Additionally, it will allow new business models that integrate battery storage with existing generation

assets (including PV). This will help to optimise existing network assets avoiding the need for costly infrastructure upgrades.

As the platform will track every kWh of electricity from its generation to its consumption point, generators and Discoms will be able to provide ready-proof of green electricity supplied to customers. The tokenisation and tracking of each electron as it flows through the system will also enable better collection of outstanding receivables and support enhanced payment mechanisms for billing and settlement. Greater grid reliability will support sustainable development in India and growing opportunities for electrification of transport including EVs.

PTL and Idam Infra with support from [DIT](#), [UKIBC](#) and [ESC](#) have secured a significant contract and will begin pilot demonstrations of PTL's DLT based digital energy platform this September with two leading discoms in India. This project will break new ground, providing a world first integration of its technology with smart meter infrastructure, working in partnership with a leading Indian smart meter manufacturer.

In order to build upon its Chennai based software DLT development capability and implement projects in India, Power Transition Ltd, UK has recently signed a collaboration agreement with [Idam Infrastructure Advisory Pvt. Ltd](#) (Idam Infra), India, energy sector services firm, to devise P2P business models using PTL technology in the Indian context.

About Power Transition (PTL), UK:

The firm formed in 2018 by the collaboration of three talented groups, The Carbon Free Group, 4D Energy Advisory and Guard Global, has created a product, encompassing the key cornerstones of the renewable-energy sector. They provide software architecture for an Intelligent Energy Systems that enables efficient exchange and access of data across multiple energy vectors and assets, whilst guaranteeing cybersecurity, helping to keep the lights on and build resilience in the sector.

About Idam Infra, India:

Idam Infrastructure Advisory Pvt. Ltd, India is a company with vast experience in the field of energy, infrastructure development, sustainable development, clean energy services, energy efficiency and climate change mitigation solutions. The firm provides services in the field of policy formulation & analysis, regulatory framework design, commercial diligence, financial structures, and corporate strategies across the value chain of energy infrastructure. Idam Infra also provides solutions in the space of digitalisation, IT/OT solutions to electric utilities.

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