

PUNE INSTITUTE OF COMPUTER TECHNOLOGY
DHANKAWADI, PUNE – 43

SEMINAR ABSTRACT
Academic Year: 2022-23

DEPARTMENT: COMPUTER ENGINEERING

Seminar On: Proposing a blockchain based solution design for Energy Exchange Platform.

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1. Topic wise contents:

1. Introduction
2. System Description
3. Proposed Design
4. Conclusion

2. References Used:

1. Rizhen Qin, Lihua Zhao, Da Li, Ke Yang, Jiaying Xuan, and Hejian Wang. 2021. Research on Design and Application of Power Dispatch Based on Blockchain. In 2021 The 3rd International Conference on Blockchain Technology (ICBCT '21).
2. Ju Chunbo, Li Gang, and Sun Diantao. 2020. The Application of Blockchain in Intelligent Power Data Exchange. In Proceedings of the 2020 4th International Conference on Electronic Information Technology and Computer Engineering (EITCE 2020).

Date: 29/09/22

Student

REMARKS BY SEMINAR CO-ORDINATOR:

Date:

UG Seminar
Coordinator

Abstract:

It is observed that users have higher requirements for fairness, transparency and privacy of transactions of energy exchanges that occur across platforms like Indian Energy Exchange (IEX) and Power Exchange India Limited (PXIL). As a decentralized distributed accounting system, blockchain is characterized by traceability, security, credibility and non-tampering of transactions, which can meet the needs of integrated energy and multi-energy transactions. Based on the research on the application of blockchain technology in the field of integrated energy services, this solution proposes an integrated energy trading process based on smart contract, and explores the application of blockchain technology in integrated energy services.

Keywords—blockchain, smart contracts, transparency, Power transaction, Data exchange.

REMARKS BY SEMINAR GUIDE:

Date:

Seminar Guide