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Blockchain-based automatic energy efficiency model for performance contract implementation

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Energy Service Companies frequently resort to Energy Performance Contracts to finance improvements and projects on energy efficiency, assuming performance and/or credit risk. Nowadays, there's lack of trust between parties when calculating cost savings and the expected deliverance of these projects, since the auditing methods are developed and implemented by the ESCOs to a generally unskilled market. The goal of this thesis is to develop an automatic central authority that can handle these energy transactions in a fast, independent and efficient energy market, using Blockchain technology, thereby guaranteeing security, transparency and standardization. As an extra feature, an energy consumption forecasting model is used both as an auditing method and as a mean to improve energy efficiency on all IST buildings.

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