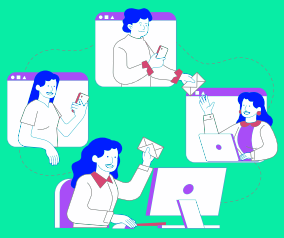
RECOMMENDATIONS FOR INNOVATIVE ENERGY CONTRACTS WITH PAY4PERFORMANCE GUARANTEES

Business Case Factsheets

This business case is developing recommendations for innovative energy contracts, based on the performance achieved by tenants for optimising the self-consumption of solar power facilitated by digital solutions (via an app). The aim is to measure the electricity production of the solar plant and visualise it in real time via the app to the tenants towards incentivising the users to directly use the PV-produced energy during the daytime. This is intended to achieve higher capacity utilisation of the PV-system. By installing sensors and using the digital tools, the actual solar power usage can also be determined in the future. This will allow to make recommendations for dynamic electricity tariffs, which are optimised for PV use.



TARGET GROUPS

- ESCOs and real estate companies as potential uptakers of the available technologies, business models and contractual schemes.
- Other groups such as research institutes, associations and energy agencies, united by the same aim of overcoming market barriers by applying smart contracts based on Pay4Performance.

Berlin, Germany

THE ROLE OF DISTRIBUTED LEDGER TECHNOLOGIES AND MEASUREMENT REPORTING VERIFICATION

The MRV concept is used with the aim of developing a way to measure and verify energy efficiency. This business case measures the optimisation of energy consumption in households and by electrifying the mobility sector and coupling it with locally generated solar power. A digital platform will process this information provided by modern meters and visualise the energy savings for the tenants. The tenants will be given precise information and tips through an app to encourage a change in behavior.

Distributed ledger technologies (DLT) enable the creation and execution of programs (e.g. smart contracts) that can automatically execute, control or document events and actions according to the terms of the contract. DLT creates the ideal conditions for the integration of heterogeneous participants in business models through the development and use of smart contracts. As soon as contracts of this type can be offered, the savings made by tenants can be converted into economic profits based on their individual user behavior.

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BENEFITS

- Full utilization of self-generated solar power through better communication and information to users. This enables the creation of future contract systems that reduce energy bills.
- Use of a more efficient technology with better performance than the conventional infrastructure.
- Reduction of the carbon footprint of the portfolio of real estate companies
- Identification of potential energy savings for homes through digital tools.

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