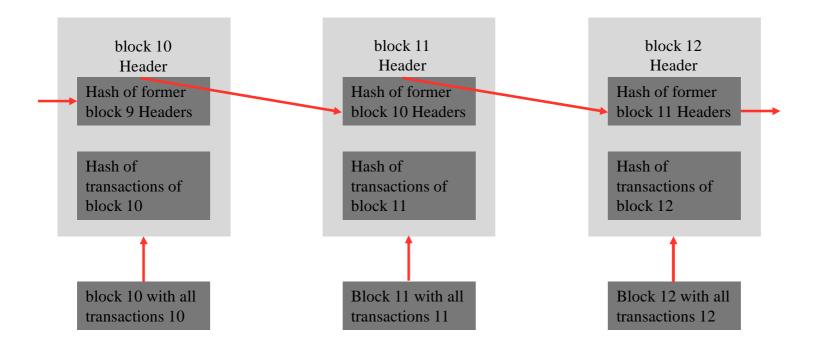
Dr. Carmen Schneider Blockchain in the energy sector – regulatory framework and future potential

WINDFORCE Conference 2019

Bremerhaven
22 May 2019

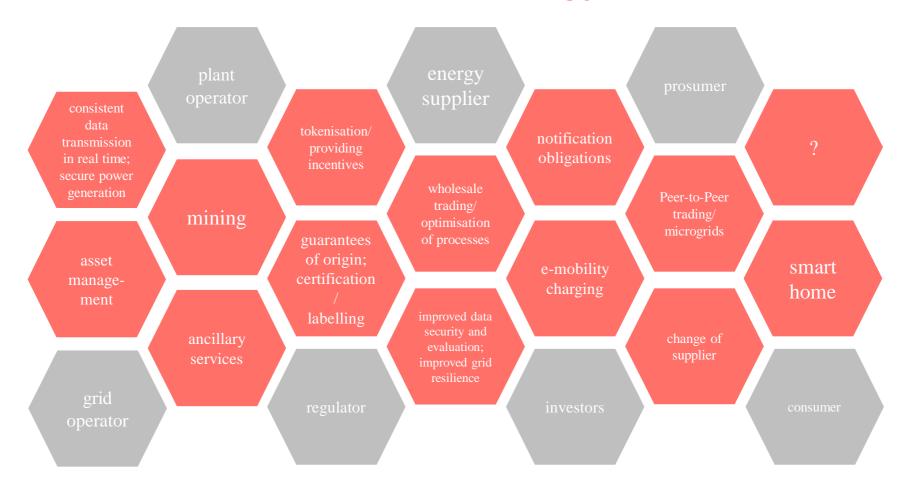
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Blockchain - What's the deal with it?

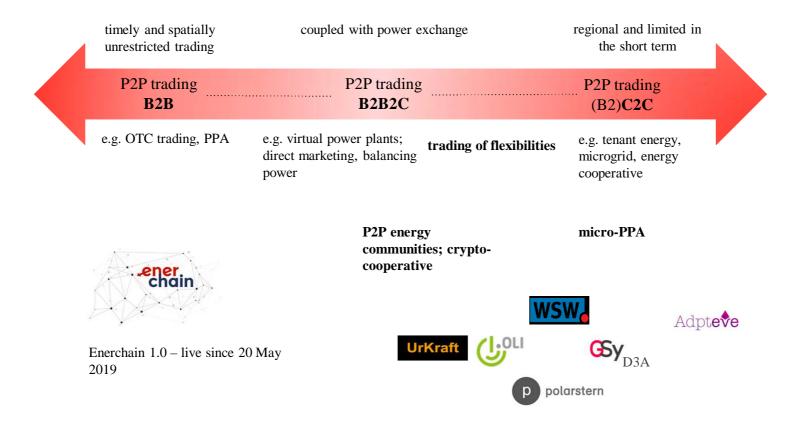


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Potential of Blockchain in the energy sector



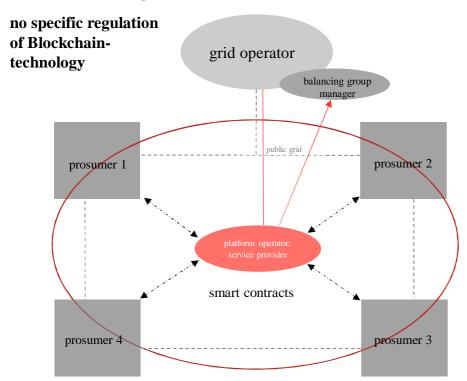
Focussing on the peer-to-peer aspect



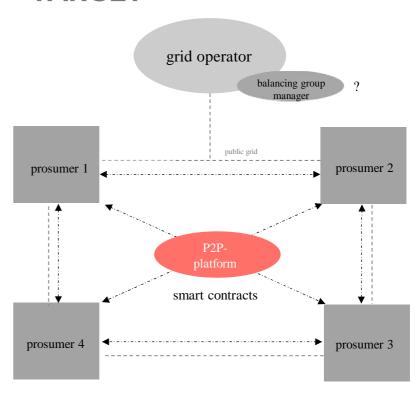
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P2P-Trading

STATUS QUO



TARGET



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Legal challenges under applicable German law

regulatory (P2P)	general civil law	other
 prosumer as energy/electricity supplier acc. to EnWG/EEG legal definition/own role? 	legal status? conclusion of contract, reversal of contract choice of law	no legal definition of Blockchain governance and corporate law
publication-, notification and storage obligations (EnWG, EEG, MaStRV, REMIT); 'MaKo2020'	• law on Ts & Cs (also applying to smart contracts? pain point: who is user? Cut off of defenses and counterclaims)	• GDPR, BDSG, TMG; IT-security
 legal prerequisites for the content of energy supply contracts, sec. 40 ff. EnWG (term, adaption of prices, termination, liability, dispute resolution) 	 voidability, revocation, right to withdraw, change of contract pain point: general stability of Blockchain; normative questions 'reverse transactions'? 	 permit acc. To Banking Act '<i>KWG</i>'? legal classification of token MiFID II
 Who is balance group manager? 'market premium balancing group' pre-qualification for German balancing energy market; StromNZV 	 liability: for an incorrect code? for the correct application of the code? in case of defective/non- performance? Does Blockchain need law? 	BSIG and BSI-KritisV (IT-security of critical infrastructures)MsbG
• Who is metering point operator?	warranty – enforcementunder smart contracts	• tax law
change of supplier?	certification of smart contracts?	cartel and competition law

Blockchain-Governance and corporate law

Is the administration and management of a Blockchain governed by German corporate law?

- common purpose vs. individual interest
 - Blockchain as 'public good'
 - users are no percentage community (Bruchteilsgemeinschaft)
 - users don't do each other a favour
- absence of a binding will under corporate law to promote a common purpose (anonymity of the Blockchain!)
- use of the Blockchain does not establish a horizontal contract between users
- interaction of the individual nodes = technically prescribed behaviour; code is law
- result: corporate law is neutral towards a pure participation in a Blockchain

Smart Contracts - in a nutshell

conclusion of contracts via usage of smart contracts

- no contract in the legal sense; execution of what has been agreed in a legal contract
- but: code, allowing an automated execution of transactions by means of predefined rules ("If..., then...")
- performance and consideration are laid down in a software which autonomously checks the contract and, if so, autonomously takes measures in case of problems
- smart contract therefore maps actual events ('right/wrong')
- prerequisite: the computer program is able to automatically check, whether the parties fulfill their duties (operating principle: vending machine); no discretionary decisions

Smart Contracts – advantages und pain points

Pros

- direct supply contract between prosumer and consumer
- transaction security
- automated execution of agreed services
- no groundless refusal of services if prerequisites are met
- (cost)efficiency; acceleration

Cons

- no assessment, no discretion ↔ principle of stability
- Who shall be liable for an incorrect code?

Dr. Carmen Schneider

Partner



Dr. Carmen Schneider is a partner with Chatham Partners LLP. She advises market participants on all aspects of energy law with a focus on project development in the energy sector, in particular regarding renewables and decentralised supply models (contracting, storage concepts, tenant energy and self-supply). Besides, Carmen advises on energy contract law, in the field of energy trading as well as regulatory. Recently, Carmen advised on the implementation of Blockchain-based solutions in the energy sector (e.g. Peer-2-Peer platforms). She is a member of the energy committee of the German Federal Blockchain Association.

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