Blockchain Technology in Carbon and Energy Markets - Case Study Comparison

Case Study	Sample Size	Objective	Benefits	Challenges
Shanghai Environment and Energy Exchange	Not specified	Impact of integrating BCT into the carbon trading market.	 Accurate data Trusted transactions Crossregional trade Stable pricing 	 Steep learning curve Scalability issues Integration complexity No legal support
China's Carbon Market	20 industries, 3,000 companies	Effect of BCT on China's carbon market from various perspectives.	 Increased trust Real-time settlement Automation Market stability 	 Low market size Less awareness Need for legal backing
Shenzhen & Beijing Pilot Programs	8 pilot systems in China	Impact and evolution of carbon trading with BCT.	Lower admin costsBetter privacy	Fewer participantsSlow adoption
Urawa Misono Microgrid, Japan	10 consumers, 5 prosumers, 1 mall	Challenges of BCT in the energy sector.	Not specified	 Scalability issues Low data storage No legal framework Poor interoperability Security risks

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