INFOSYS BLOCKCHAIN-RENEWABLE ENERGY CERTIFICATES
ISSUANCE & TRADING

Renewable Energy Certificates (RECs) are a market-based instrument that certifies that the bearer owns one megawatt-hour (MWh) of electricity generated from a renewable energy resource. Existing process of REC issuance and trading faces challenges like manual verification of generator compliance, manual process in recording the readings, exchange cost and post trade paperwork overheads. As the RECs are traded over the counter with the help of traders or brokers it involves high transaction costs, which come up to 10% of the REC value.

Solution Overview
Infosys Blockchain Renewable Energy Certification Issuance and Trading marketplace will automate the complete end-to-end process of verification, issuance and exchange of RECs on a marketplace. It connects the generators with the obligated/voluntary entities along with the regulators by eliminating the intermediaries, therefore results in seamless exchange and tracking of RECs.

Solution Key Benefits
- Marketplace for trading the RECs
- Smart contracts to streamline the overall process through the automation of certificate issuance, tracking and retirement
- Elimination of REC aggregators or intermediaries, thereby reducing the transaction cost
- Real time tracking of REC

Case Study

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| US-based financial Institution | The client was facing challenges in the REC procurement to meet their sustainability goals which involved high transaction costs. | • High transaction costs up to 10% the REC  
• Fragmented and complex structure  
• Manual process leading to errors and fraud | • Pilot demonstrated 10% reduction in transactional costs in the REC trading  
• Automates end to end process of verification, issuance and trading of REC  
• Enables transparent and efficient trading by automating validations and near real time reconciliations between generators and buyers |

To know more about Infosys Blockchain Renewable Energy Certification Issuance and Trading, please write to blockchain@infosys.com.