SIEMENS energy

CertaLink energy certificate – Growing from need to certification





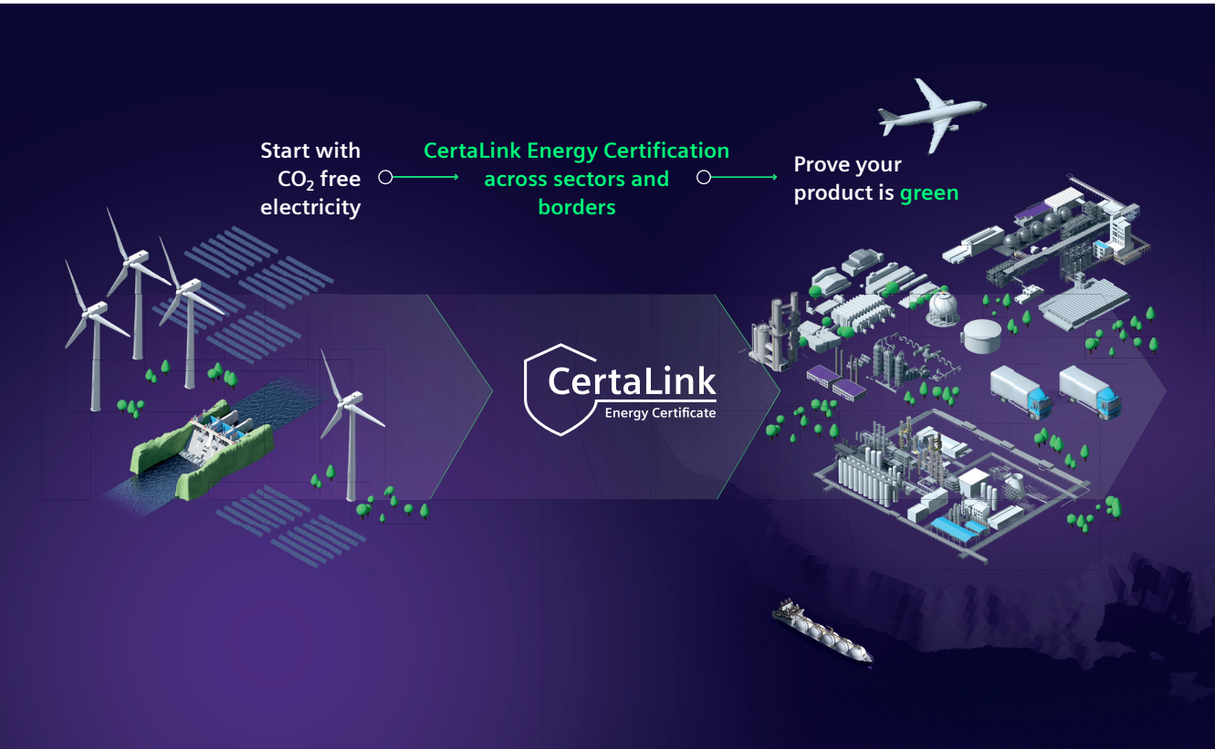
Producing and using carbon-neutral energy will be the license to operate in 2050.

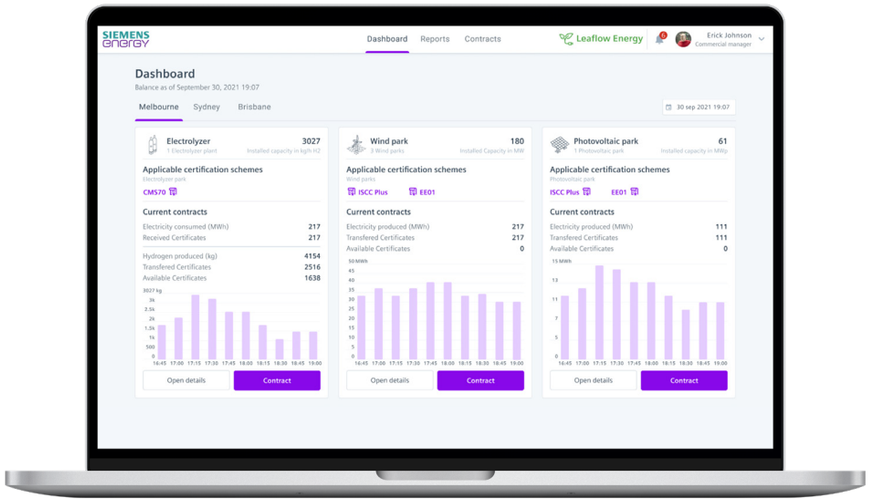
One of the main challenges to overcome on the path to climate neutrality is incentivizing and providing proof of the sustainable origin of energy and goods. This has forced governments to enact and enforce policies and regulations such as tax credits that promote the use of green energy. The European Union being a leader in carbon-neutral campaigns approved “Fit for 55”, a program that will reduce greenhouse gas emissions by at least 55% by 2030.

Furthermore, strict policies through auditing should be enacted on hydrogen, e-fuels, ammonia, and steel commodities whose environmental footprint during production is outsized. They require an innovative approach and verifiable audit trails. The trail should cover the entire energy value chain from generation to consumption across sectors, borders and to the creation of individual products to stop greenwashing.

Our solution

Siemens Energy offers the **CertaLink Energy Certification** service to track the environmental impact of the entire production process step by step. It covers a variety of certification schemes for renewable and low-carbon electricity, hydrogen, e-fuels, and other energy carriers.





Additionally, the certification system connects physical assets to a distributed ledger technology (DTL) of infrastructure. An implemented DTL ecosystem is the main requirement for the certificate's verification, interoperability, tamper-proof authentication, and portability across the different industrial sectors.

Once qualified the certificate will be issued instantly, automatically, and in accordance with legal or market requirements. All the relevant information needed to prove the sustainable origin and carbon footprint of your green or low-carbon product is included in the certificate.

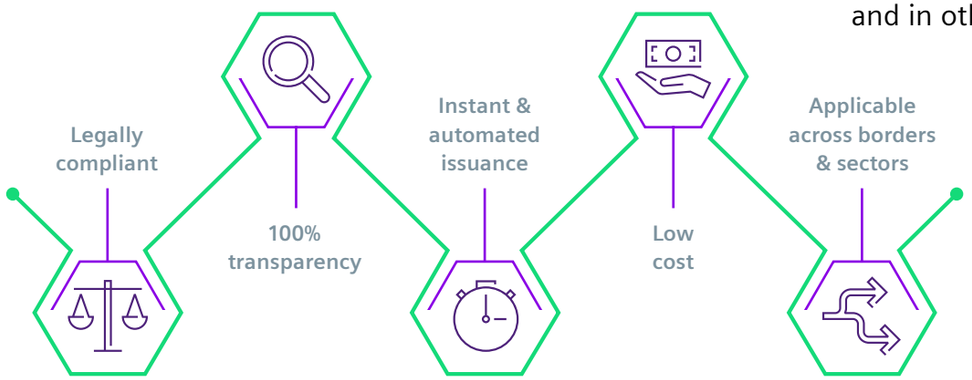
Thanks to the partnership with TÜV SÜD and the German Energy Agency (dena), the CertaLink Energy Certification brings scheme holders, independent certification bodies and registries together.

As the world shifts towards cleaner energy sources, authenticating green products and proving CO_2 emissions content has become increasingly imperative.

Fortunately, **CertaLink Energy Certificates** ensure traceability of the carbon footprint of energy products, energy imports, and energy consumption. It is the ultimate proof of the reduced carbon intensity.

Customers and partners are welcome to participate in this new and evolving market by certifying their renewable energy products or the production of hydrogen by electrolysis or even certifying the production of green and low carbon fuels. Not only will CertaLink Energy Certification simplify the sustainability certification process and satisfy the market needs of the Power-to-X and other energy-intensive industries but also will enable businesses to

- Gain customs and tax reductions
- Achieve higher market prices for products produced by clean energy or having a reduced carbon footprint
- Meet future governmental requirements (e.g. EU program “Fit for 55”)
- Secure project financing by providing proof of sustainability, and
- Enable the trading of energies on stock exchanges and in other marketplaces





In 2023 Siemens Energy applied the CertaLink Energy Certification service at Nobian’s chlor-alkali electrolysis plant in Germany. Nobian has been providing green hydrogen since 2021 and as the first certified chlor-alkali electrolysis plant, they understand the demand for an automated, transparent and fully traceable certification process along the whole value chain.

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