



24/7 Clean Energy Hourly Matching

Supporting a **24/7 Carbon Free Future** with Transparency and Traceability

More corporates are responding to climate change by procuring clean energy. While some companies procure clean energy to match their annual emissions, others are taking a more proactive approach by sourcing clean energy to match their **hourly use**.

The key to 24/7 hourly energy matching is in providing transparent and traceable proof of the renewable energy generated at source.



WHAT IS 24/7 HOURLY ENERGY MATCHING?

24/7 hourly energy matching is a way to match electricity consumption with renewable energy production on an hourly basis.

This means that every hour of the day, the amount of electricity that is consumed is matched with the amount of renewable energy that is produced.



HOW DOES 24/7 HOURLY ENERGY MATCHING WORK?

When renewable energy is produced, it is difficult to track where it came from. This is because electrons from renewable sources are indistinguishable from electrons from fossil fuel sources once they are mixed together in the grid.

To solve this problem, GoNetZero™ uses blockchain technology to tokenise renewable energy at the point of generation. Each renewable energy token represents 1 watt-hour of clean energy.

The ability to tokenise renewable energy allows for 24/7 hourly energy matching. This means that energy tokens can be matched to the company's consumption data on a sub-hourly basis.



WHAT ARE THE BENEFITS FOR YOUR COMPANY?



We can help you build a pathway to gradually increase renewable energy coverage to attain 24/7 Carbon-Free Energy

By seeing exactly how much renewable energy you are using on an hourly basis, you can make more informed decisions about how to increase renewable energy usage. For example, some companies might procure wind energy when there is a lack of solar energy available or work with a mix of assets such as solar, wind and battery storage.



We help you to identify areas in which you can further minimise your company's carbon footprint

24/7 hourly matching provides information on how your company can make changes to your operations, such as reducing load when renewable energy is less abundant and shifting load when renewable energy is available.



We help you to be confident about the source of the purchased green energy attributes

24/7 hourly reporting provides a verifiable audit trail that can be used to verify sustainability claims. This helps to reduce the risk of greenwashing, which can mislead consumers and lead to slowing of sustainability efforts.

WHY GONETZERO™?



We are the first in Asia to pilot 24/7 hourly matching under EnergyTag's certification standards. EnergyTag is a non-profit, independent, industry led initiative to define and build the market for hourly energy certificates.



We also make 24/7 hourly matching data easily actionable with our intuitive dashboards. This means that you can easily track your progress and make informed decisions about your sustainability strategy.



We have created an interactive Web-App Blockchain Explorer created for enhanced user experience. This means that you and your stakeholders can easily access your data on the blockchain ledger for verification.



Our 24/7 hourly matching solution can be integrated with RECs registries so that the same data on our blockchain is independently endorsed and verified by a third party.

CUSTOMER HIGHLIGHT: UBS IN SINGAPORE

UBS and GoNetZero™ have partnered to match renewable energy consumption in Singapore. This is the first project of its kind in Asia, and it follows EnergyTag's certification standards released.

- 1 IoT-enabled meters have been installed at UBS's designated renewable energy generation site to collect generation data.
- 2 This data is then transmitted securely to GoNetZero™'s blockchain-based digital platform.
- 3 Energy tokens are then generated every half-hourly to represent the digital copy of the renewable energy generated.
- 4 These energy tokens are then matched automatically to UBS's power consumption data.
- 5 This allows UBS to see exactly how much renewable energy they are consuming, and it helps them to identify opportunities to further minimise their carbon footprint.



READY TO GET STARTED?

Please reach out at connect@gonetzero.ai



GoNetZero™ is a global decarbonisation solution provider, backed by Singapore Stock Exchange-listed Sembcorp Industries, headquartered in Singapore. It is the carbon management business of Sembcorp Industries.