Single page description of Energy Trade (ETT) token.

What is ETT?

ETT is a Hedera-based token that represents our project and it's operation. It is a multi-use token as it is used in both a technical means and in a Defi means. Hedera was chosen for it's carbon neutral / negative stance, extremely low energy use in operation, low predictable fees, and ABFT security, which set it apart from any other crypto network.

10 Billion $ETT are minted and on issue. This number will not be increased without majority community ownership support, but we see no need for this to be raised in the future unless we are actually approaching token scarcity which is very unlikely. 34% of ETT have been locked away till September 2022 in an account, to avoid any dumping scenario as the token is listed on exchanges. We expect that we will begin listing on DEXs post July 2022.

We encourage longer term holdings of ETT by retail holders.

Technical details / Operation:

Use cases:

1. **Corporate and Industrial energy use monitoring -** ETT token is used to monitor energy use from remote IoT devices and intelligent sensors which sense equipment energy use / our proprietary imbedded middleware (Linux-based) fully solid-state mini-server. These values are represented by fractions of **Wh** (Watt hours) of energy use, which can provide extreme accuracy and granularity of raw data.

   The MEMO field of the ETT token is used to carry encrypted information on energy use to an open-source distributed event store and stream-processing platform. This means it can traverse unsecured networks (eg. the Internet) and then be decrypted and deliver the data.

   This data can then be used via Guardian v2.0 to calculate standardized carbon offsets etc.

   Data-sets can also be stored as NFT's on IPFS (InterPlanetary File System a protocol and peer-to-peer network for storing and sharing data in a distributed file system). They can be either publically viewable, or encrypted. The data is always compressed regardless. A Hedera smart contract can be issued to unlock a data-set, usually once payment and/or access has been granted.

   We will interact with ESG teams and contractors, to enable them to use our Hedera-based system to gain accurate information within their respective environments and handle the data accordingly. This is on a consultancy basis.

   This data collection is extremely important, as it can be used to improve efficiency in corporate or industrial environments. Data quality must also be assessed to ensure it matches reality. ESG is now a corporate requirement for many companies.

2. **Unlocking NFT's on distributed filesystems and cloud storage -** (eg. Google Drive) with ETT itself or smart-contracts / HashConnect. These can exist publically, but in an encrypted or unencrypted form, depending on the requirement. Being available with high-bandwidth and low-latency across the planet.

3. **Defi -** To create grass-roots support of ESG, and allow trading of the token by corporate and private interests on DEXs. This provides a notional value to the project. Within some corporations it may be possible to transfer these tokens between departments, or if a company is sold, they can be transferred to the new entity as an asset. Holding ETT means the company has enough on hand to perform their workload analysis, tokens are not destroyed, but recycled.

So in short there are 3 primary use cases for ETT:

1. Energy monitoring, data collection, and interaction with Guardian v2 to allow companies to reach standardized / localized carbon-offset values.

2. Unlocking NFT datasets on distributed filesystems. Either via ETT's own system or smart-contracts / utilizing HashConnect etc. We expect these datasets to largely be collected ESG data, which may require further analysis by external consultants etc.

3. Defi offering of ETT on DEXs for corporate/private ownership of the project, and to fund EnergyTrade's growth as a business and software development.

A 4th use case exists also in utilizing ETT for carrying key-value timeseries data **for AI /AI in-the-loop**, but this will be a future application due to complexity, and data-sets can already be exported to consulting companies with that specific skill.

References:

https://ipfs.io/
https://www.hashpack.app/hashconnect
https://hedera.com/blog/guardian-v2-0-the-next-generation-of-esg-marketplaces-built-on-hedera
https://hedera.com/carbon-offsets