



Trusted Energy  
Interoperability Alliance

# Build trust through verifiable data lineage

Make every transaction traceable and defensible.



## Introduction

Data drives decentralized energy coordination, but only trusted data creates value. Establishing provenance ensures every data point, dispatch, and algorithmic action is traceable and legally defensible.

### 4 key steps to data provenance



#### 1. Embed cryptographic verification

Attach origin metadata ensuring every API call carries tamper-proof authentication of source and authorization.



#### 2. Leverage distributed ledgers

Maintain immutable, shareable event histories that regulators and partners can audit with complete confidence.



#### 3. Validate AI and automation

Require algorithmic platforms to generate cryptographic attestations for each automated action, establishing machine accountability.



#### 4. Enable transparent oversight

Provide secure, read-only visibility for regulators and auditors, reducing friction while strengthening compliance integrity.

Discover how TEIA standards enable operational transparency across energy systems.

[Learn more](#)

