



GEM Entity ID to LEI mapping table

Factsheet

GLEIF and Global Energy Monitor

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1. Introduction

Global Energy Monitor (GEM) publishes the Global Energy Ownership Tracker, a dataset describing the chain of ownership for energy projects worldwide. The tracker maps ownership from the direct owner, through intermediate entities where relevant, up to the highest-level ultimate parents such as corporations, investment firms, and governments. Ownership links include reported percentages and capture both controlling and qualifying minority interests above a threshold of 5%.

The GEM Entity ID reference data is based on the Global Energy Ownership Tracker and related GEM entity records. The source data includes ownership relationships, entity names, and associated identifiers that support cross-dataset linking. The dataset is maintained as a structured, regularly updated source of ownership information for energy and heavy industry projects.

The Global Legal Entity Identifier Foundation (GLEIF) is a not-for-profit organization created to support the implementation and use of the Legal Entity Identifier (LEI). GLEIF manages a network of partners, the LEI issuers, to provide trusted services and open, reliable data for unique legal entity identification worldwide.

The Legal Entity Identifier (LEI) is a 20-digit, alpha-numeric code based on the ISO 17442 standard developed by ISO. It connects to key reference information that enables clear and unique identification of legal entities.

In this context, GLEIF and GEM are publishing a GEM Entity ID-to-LEI mapping reference file, which will be updated on a monthly basis and made publicly available.

The file is built upon a mapping process established by GEM and certified by GLEIF. The purpose of this factsheet is to describe the reference data involved, the analysis applied to map the GEM Entity IDs to the LEIs, and the ongoing update process.

2. Reference Data

The Global Energy Ownership Tracker is the source for the GEM Entity IDs and GEM reference data. Additional information on this data source including field definitions can be found [here](#).

The GLEIF Golden Copy File is the source for the LEIs and the legal entity reference data. Additional information on the GLEIF Golden Copy Files and the Common Data File formats can be found [here](#).

The GEM Entity ID-to-LEI mapping table does not include historical GEM Entity ID/LEI pairs, stand-alone unmapped GEM Entity IDs and LEIs, nor the listing of daily or monthly changes.

The following table describes the critical fields considered for mapping.

Table 1 – Critical Fields Considered for Mapping

GEM Entity ID	Description & Comments	LEI	Description & Comments
Fields considered for pre-conditions			

Entity Status	Inactive status not included	Registration Status	LEIs with Registration Status of ANNULLED or DUPLICATE are excluded
Fields considered as equivalents for mapping			
Full Name	Full name including entities legal entity type	Legal Name Other Entity Names or Transliterated Other Entity Names	The LEI reference data includes the legal name as well as other names and a transliterated name given the legal name includes non-latin characters. If available, "other entity names" in English will be used.
Registration Country, Registration Country Subdivision, Headquarters Country, Headquarters Country Subdivision	Subdivision filled in for large countries, such as USA, China, or India, where provinces provide information	Legal Address Country Other Address Country	

3. Analysis

In May 2026, there were around 28,000 GEM Entity IDs in the Global Energy Ownership Tracker, 26,700 of which are "legal entities", 700 are states, 600 are state bodies, and 100 are arrangements. Hence, approximately 28,000 GEM Entity IDs initially qualify for mapping as these legal entity types also qualify for LEI registration.

As of May 2026, around 3,060,000 active LEIs have been issued. Around 6,000 GEM Entity IDs have LEIs mapped.

4. On-going update process

This section describes what changes (events) to the underlying datasets trigger update to the mapping discussed in the section above.

Table 2: The change to an LEI or GEM Entity ID (event) and the consequent update to the GEM Entity ID/LEI pair

Event	Update
A new GEM Entity ID or LEI is issued.	The GEM Entity ID or LEI is considered for mapping.
In a GEM Entity ID/LEI pair the GEM Entity ID became inactive.	The GEM Entity ID/LEI pair is removed.
In a GEM Entity ID/LEI pair the LEI became ANNULLED or DUPLICATE.	If a Successor LEI is present, the GEM Entity ID is re-matched with the “Successor LEI”. The previous GEM Entity ID/LEI pair retains.
In a GEM Entity ID/LEI pair any of the GEM Entity ID or LEI data fields considered as equivalent mapping (see Table 1) change.	The GEM Entity ID /LEI pair is reviewed to determine if the match is still applicable, and is removed if not applicable anymore.

Users of the GEM Entity ID-to-LEI mapping reference file may challenge individual GEM Entity ID /LEI pairs via info@gleif.org. General questions on the GEM Entity ID-to-LEI mapping table can be sent to GLEIF at info@gleif.org.

5. File Specifications

The file is published in comma-separated format (csv) contained in a zip file. It contains all GEM Entity ID-LEI pairs, i.e. is a “full” file. No “delta” file is made available. The file does not contain GEM Entity IDs that do not have corresponding LEIs nor LEIs without corresponding GEM Entity IDs.

The file contains the following data:

FIELD NAME	FORMAT	PRESENCE	DESCRIPTION
LEI	20 alphanumeric	Always present	The LEI of the entity.
GEM Entity ID	13 alphanumeric always starting with letter “E”	Always present	The GEM Entity ID code of the entity.