

## **PetroEnergy Data Catalog**

This Data Catalog serves as a centralized repository of metadata that describes the structure, purpose, and context of all datasets used and maintained within the company.

### **Scope of the Catalog**

The catalog includes detailed documentation on datasets related to:

- **Company Name** - Identifies the legal and operational entity to which data records belong. This ensures clarity in multi-entity organizations or partnerships.
- **Corporate Social Responsibility (CSR)** -Tracks initiatives and metrics related to social and ethical responsibilities. This includes data on community engagement, volunteer programs, donations, and compliance with social standards.
- **Environment (Envi)** -Contains environmental performance data such as carbon emissions, energy usage, waste disposal, and sustainability efforts. This supports environmental auditing and green reporting.
- **Creating Shared Value (CSV)** - Focuses on strategies that align business growth with societal benefits. Data here may include partnerships, community investments, and initiatives that generate both economic value and social progress.
- **Human Resources (HR)** - Documents workforce-related information including employee demographics, training, performance, retention, diversity, and compensation. This helps ensure ethical and equitable HR practices.
- **Economics (Econ)** - Covers internal and external economic indicators that affect the company, including market analysis, revenue, cost structures, and financial forecasts.

## PUBLIC SCHEMAS

<b>Table name</b>	account	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• account_id</li> <li>• email</li> <li>• account_role</li> <li>• power_plant_id</li> <li>• company_id</li> <li>• account_status</li> <li>• date_created</li> <li>• date_updated</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(20)</li> <li>• VARCHAR(254)</li> <li>• VARCHAR(3)</li> <li>• VARCHAR(10)</li> <li>• VARCHAR(10)</li> <li>• VARCHAR(10)</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Stores information related to user accounts, including access roles, account statuses, and associations with power plants or companies.	

<b>Table name</b>	status	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• status_id</li> <li>• status_name</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(3)</li> <li>• VARCHAR(10)</li> </ul>
<b>Description</b>	Defines the different statuses that can be applied to accounts, processes, or records in the system.	

<b>Table name</b>	roles	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• role_id</li> <li>• role_name</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(3)</li> <li>• VARCHAR(15)</li> </ul>
<b>Description</b>	Holds a list of user roles for defining access levels and permissions within the system.	

<b>Table name</b>	audit_trail	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• audit_id</li> <li>• account_id</li> <li>• target_table</li> <li>• record_id</li> <li>• action_type</li> <li>• old_value</li> <li>• new_value</li> <li>• audit_timestamp</li> <li>• description</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(20)</li> <li>• VARCHAR(20)</li> <li>• VARCHAR(20)</li> <li>• VARCHAR(20)</li> <li>• VARCHAR(10)</li> <li>• TEXT</li> <li>• TEXT</li> <li>• TIMESTAMP</li> <li>• TEXT</li> </ul>
<b>Description</b>	Tracks user activities across the system for accountability, monitoring changes made to data records.	

<b>Table name</b>	checker_status_log	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• cs_id</li> <li>• checker_id</li> <li>• record_id</li> <li>• status_id</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(20)</li> <li>• VARCHAR(20)</li> <li>• VARCHAR(20)</li> <li>• VARCHAR(3)</li> </ul>

	<ul style="list-style-type: none"><li>• status_timestamp</li></ul>	<ul style="list-style-type: none"><li>• TIMESTAMP</li></ul>
<b>Description</b>	Logs the status changes made by checkers or reviewers on specific records, ensuring traceability in validation workflows.	

<b>Table name</b>	attachment	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"><li>• record_id</li><li>• attachment_file</li></ul>	<ul style="list-style-type: none"><li>• VARCHAR(20)</li><li>• TEXT</li></ul>
<b>Description</b>	Logs the status changes made by checkers or reviewers on specific records, ensuring traceability in validation workflows.	

## REFERENCE SCHEMAS

<b>Table name</b>	company_main	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• company_id</li> <li>• company_name</li> <li>• parent_company_id</li> <li>• address</li> <li>• zip</li> <li>• color_code</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(10)</li> <li>• VARCHAR(255)</li> <li>• VARCHAR(10)</li> <li>• TEXT</li> <li>• VARCHAR(4)</li> <li>• VARCHAR(7)</li> </ul>
<b>Description</b>	Stores fundamental information about each company, including identifiers, hierarchical relationships, and location details.	

<b>Table name</b>	csv_power_plants	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• power_plant_id</li> <li>• company_id</li> <li>• site_name</li> <li>• site_address</li> <li>• city_town</li> <li>• province</li> <li>• country</li> <li>• zip</li> <li>• ef_id</li> <li>• create_at</li> <li>• updated_at</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(10)</li> <li>• VARCHAR(10)</li> <li>• VARCHAR(50)</li> <li>• TEXT</li> <li>• VARCHAR(30)</li> <li>• VARCHAR(30)</li> <li>• VARCHAR(30)</li> <li>• VARCHAR(4)</li> <li>• VARCHAR(10)</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Details power plant information, including locations and associated emission factors.	

<b>Table name</b>	csv_emission_factors	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• ef_id</li> <li>• generation_source</li> <li>• kg_co2_per_kwh</li> <li>• create_at</li> <li>• updated_at</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(10)</li> <li>• TEXT</li> <li>• DECIMAL(10,5)</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Provides emission factors related to various generation sources, aiding in environmental impact assessments.	

<b>Table name</b>	csv_fa_factors	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• ff_id</li> <li>• ff_name</li> <li>• ff_percentage</li> <li>• create_at</li> <li>• updated_at</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(10)</li> <li>• TEXT</li> <li>• DECIMAL(5,4)</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Lists factors related to funds allocation, including names and percentage values.	

<b>Table name</b>	csv_hec_factors	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• hec_id</li> <li>• hec_value</li> <li>• hec_year</li> <li>• source_name</li> <li>• source_link</li> <li>• create_at</li> <li>• updated_at</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(10)</li> <li>• DECIMAL(10,4)</li> <li>• SMALLINT</li> <li>• TEXT</li> <li>• TEXT</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Contains high-efficiency combustion factors, detailing values and sources.	

<b>Table name</b>	expenditure_type	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• type_id</li> <li>• type_description</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(4)</li> <li>• TEXT</li> </ul>
<b>Description</b>	Defines types of expenditures, providing descriptions for each category.	

## SILVER SCHEMAS

### Corporate Social Responsibility (CSR):

<b>Table name</b>	csr_activity	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"><li>• csr_id</li><li>• company_id</li><li>• project_id</li><li>• project_year</li><li>• csr_report</li><li>• project_expenses</li></ul>	<ul style="list-style-type: none"><li>• VARCHAR(10)</li><li>• VARCHAR(10)</li><li>• VARCHAR(20)</li><li>• VARCHAR(6)</li><li>• NUMERIC</li><li>• NUMERIC</li></ul>
<b>Description</b>	Details the specific CSR activities undertaken by companies, linking them to projects and reporting metrics.	

<b>Table name</b>	csr_projects	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"><li>• project_id</li><li>• program_id</li><li>• project_name</li><li>• project_metrics</li></ul>	<ul style="list-style-type: none"><li>• VARCHAR(20)</li><li>• VARCHAR(20)</li><li>• VARCHAR(50)</li><li>• VARCHAR(100)</li></ul>
<b>Description</b>	Contains information about CSR projects, including their names and associated metrics.	

<b>Table name</b>	csr_programs	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"><li>• program_id</li><li>• program name</li></ul>	<ul style="list-style-type: none"><li>• VARCHAR(20)</li><li>• VARCHAR(20)</li></ul>
<b>Description</b>	Lists CSR programs, providing names and associated identifiers.	

### Environment (Envi):

<b>Table name</b>	envi_natural_sources	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"><li>• ns_id</li><li>• company_id</li><li>• ns_name</li><li>• created_at</li><li>• updated_at</li></ul>	<ul style="list-style-type: none"><li>• VARCHAR(20)</li><li>• VARCHAR(10)</li><li>• VARCHAR(30)</li><li>• TIMESTAMP</li><li>• TIMESTAMP</li></ul>
<b>Description</b>	Catalogs natural resources utilized by companies, including names and timestamps for tracking.	

<b>Table name</b>	envi_water_withdrawal	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"><li>• ww_id</li><li>• company_id</li><li>• ns_id</li><li>• volume</li><li>• unit_of_measurement</li><li>• year smallint</li><li>• month</li></ul>	<ul style="list-style-type: none"><li>• VARCHAR(20)</li><li>• VARCHAR(10)</li><li>• VARCHAR(20)</li><li>• DOUBLE PRECISION</li><li>• VARCHAR(15)</li><li>• SMALLINT</li><li>• VARCHAR(10)</li></ul>

	<ul style="list-style-type: none"> <li>• quarter</li> <li>• created_at</li> <li>• updated_at</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(2)</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Records data on water withdrawal volumes by companies, including measurement units and timeframes.	

<b>Table name</b>	envi_company_property	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• cp_id</li> <li>• company_id</li> <li>• cp_name</li> <li>• cp_type</li> <li>• created_at</li> <li>• updated_at</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(20)</li> <li>• VARCHAR(10)</li> <li>• VARCHAR(30)</li> <li>• VARCHAR(15)</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Details properties owned by companies, specifying types and relevant timestamps.	

<b>Table name</b>	envi_diesel_consumption	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• dc_id</li> <li>• company_id</li> <li>• cp_id</li> <li>• unit_of_measurement</li> <li>• Consumption</li> <li>• Month</li> <li>• Year</li> <li>• Quarter</li> <li>• Date</li> <li>• created_at</li> <li>• updated_at</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(20)</li> <li>• VARCHAR(10)</li> <li>• VARCHAR(20)</li> <li>• VARCHAR(15)</li> <li>• DOUBLE PRECISION</li> <li>• VARCHAR(10)</li> <li>• SMALLINT</li> <li>• VARCHAR(2)</li> <li>• DATE</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Tracks diesel consumption metrics for company properties, including consumption volumes and dates.	

<b>Table name</b>	envi_electric_consumption	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• ec_id</li> <li>• company_id</li> <li>• unit_of_measurement</li> <li>• consumption</li> <li>• Quarter</li> <li>• year</li> <li>• created_at</li> <li>• updated_at</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(20)</li> <li>• VARCHAR(10)</li> <li>• VARCHAR(15)</li> <li>• DOUBLE PRECISION</li> <li>• VARCHAR(2)</li> <li>• SMALLINT</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Monitors electric consumption data for companies, capturing usage metrics over time.	

<b>Table name</b>	envi_non_hazard_waste	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• nhw_id</li> <li>• company_id</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(20)</li> <li>• VARCHAR(10)</li> </ul>

	<ul style="list-style-type: none"> <li>• waste_source</li> <li>• metrics</li> <li>• unit_of_measurement</li> <li>• waste</li> <li>• month</li> <li>• year</li> <li>• quarter</li> <li>• created_at</li> <li>• updated_at</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(20)</li> <li>• VARCHAR(20)</li> <li>• VARCHAR(20)</li> <li>• DOUBLE PRECISION</li> <li>• VARCHAR(10)</li> <li>• SMALLINT</li> <li>• VARCHAR(2)</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Documents non-hazardous waste generated by companies, detailing sources and quantities.	

<b>Table name</b>	envi_hazard_waste_generated	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• hwg_id</li> <li>• company_id</li> <li>• Metrics</li> <li>• unit_of_measurement</li> <li>• waste_generated</li> <li>• quarter</li> <li>• Year</li> <li>• created_at</li> <li>• updated_at</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(20)</li> <li>• VARCHAR(10)</li> <li>• VARCHAR(20)</li> <li>• VARCHAR(15)</li> <li>• DOUBLE PRECISION</li> <li>• VARCHAR(2)</li> <li>• SMALLINT</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Captures data on hazardous waste generated by companies, including metrics and timeframes.	

<b>Table name</b>	envi_hazard_waste_disposed	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• hwd_id</li> <li>• company_id</li> <li>• metrics</li> <li>• unit_of_measurement</li> <li>• waste_disposed</li> <li>• year</li> <li>• created_at</li> <li>• updated_at</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(20)</li> <li>• VARCHAR(10)</li> <li>• VARCHAR(20)</li> <li>• VARCHAR(15)</li> <li>• DOUBLE PRECISION</li> <li>• SMALLINT</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Records information on the disposal of hazardous waste by companies, tracking quantities and dates.	

#### Creating Shared Value (CSV):

<b>Table name</b>	csv_energy_records	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• energy_id</li> <li>• power_plant_id</li> <li>• date_generated</li> <li>• energy_generated_kwh</li> <li>• co2_avoidance_kg</li> <li>• create_at</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(20)</li> <li>• VARCHAR(10)</li> <li>• TIMESTAMP</li> <li>• NUMERIC(15, 4)</li> <li>• NUMERIC(15, 4)</li> <li>• TIMESTAMP</li> </ul>



	<ul style="list-style-type: none"> <li>• updated_at</li> </ul>	<ul style="list-style-type: none"> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Logs energy generation records for power plants, including CO <sub>2</sub> avoidance metrics.	

<b>Table name</b>	csv_funds_allocation	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• month_generated</li> <li>• power_plant_id</li> <li>• ff_id</li> <li>• power_generated_peso</li> <li>• funds_allocated_peso</li> <li>• create_at</li> <li>• updated_at</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(20)</li> <li>• VARCHAR(10)</li> <li>• VARCHAR(10)</li> <li>• NUMERIC (10,4)</li> <li>• NUMERIC (10,4)</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Tracks the allocation of funds generated from power plants, including amounts and associated factors.	

### Human Resources (HR):

<b>Table name</b>	hr_demographics	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• employee_id</li> <li>• gender</li> <li>• birthdate</li> <li>• position_id</li> <li>• p_np</li> <li>• company_id</li> <li>• employment_status</li> <li>• date_created</li> <li>• date_updated</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(20)</li> <li>• VARCHAR(1)</li> <li>• TIMESTAMP</li> <li>• VARCHAR(2)</li> <li>• VARCHAR(2)</li> <li>• VARCHAR(10)</li> <li>• VARCHAR(20)</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Stores demographic information of employees, including gender, birthdate, and employment status.	

<b>Table name</b>	hr_safety	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• employee_id</li> <li>• company_id</li> <li>• date</li> <li>• type_of_accident</li> <li>• safety_man_hours</li> <li>• date_created</li> <li>• date_updated</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(20)</li> <li>• VARCHAR(10)</li> <li>• TIMESTAMP</li> <li>• VARCHAR(50)</li> <li>• INT</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Records safety incidents involving employees, detailing accident types and man-hours.	

<b>Table name</b>	hr_position	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• position_id</li> <li>• position_name</li> </ul>	<ul style="list-style-type: none"> <li>• VARCHAR(2)</li> <li>• VARCHAR(20)</li> </ul>
<b>Description</b>	Lists job positions within the company, providing identifiers and names.	



	<ul style="list-style-type: none"> <li>• created_at</li> <li>• updated_at</li> </ul>	<ul style="list-style-type: none"> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Details company expenditures across various categories, including government payments and community investments.	

<b>Table name</b>	econ_value	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• year</li> <li>• electricity_sales</li> <li>• oil_revenues</li> <li>• other_revenues</li> <li>• interest_income</li> <li>• share_in_net_income_of_associate</li> <li>• miscellaneous_income</li> <li>• total_revenue</li> <li>• created_at</li> <li>• updated_at</li> </ul>	<ul style="list-style-type: none"> <li>• SMALLINT</li> <li>• NUMERIC</li> <li>• NUMERIC</li> <li>• NUMERIC</li> <li>• NUMERIC</li> <li>• NUMERIC</li> <li>• NUMERIC</li> <li>• NUMERIC</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Captures economic values such as revenues from different sources and total revenue figures.	

<b>Table name</b>	econ_capital_provider_payment	
<b>Datatype &amp; Length</b>	<ul style="list-style-type: none"> <li>• year</li> <li>• interest</li> <li>• dividends_to_nci</li> <li>• dividends_to_parent</li> <li>• total_dividends_interest</li> <li>• created_at</li> <li>• updated_at</li> </ul>	<ul style="list-style-type: none"> <li>• SMALLINT</li> <li>• NUMERIC</li> <li>• NUMERIC</li> <li>• NUMERIC</li> <li>• NUMERIC</li> <li>• TIMESTAMP</li> <li>• TIMESTAMP</li> </ul>
<b>Description</b>	Records payments made to capital providers, including interest and dividends.	