Cleanview

Data dictionary

What each column in the Cleanview data center, gas plant and power project downloads means, how it's measured and the values it can take.

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Data centers

A row is one data center building, not a campus. A campus with six buildings is six rows, linked by the campus name.

Column names below are the headers in the CSV download. A blank cell means Cleanview doesn't know the value yet. A blank is never a zero.

Field	Definition
Project name `project_name`	Name of the data center building. Buildings on a shared campus are numbered: Building 1, Building 2, Building 3.
Developer `developer`	Company developing or owning the building. Not necessarily the company using it: see Tenant and End user.
Developer experience `developer_experience`	Whether the developer has a track record building data centers. **Experienced** Has at least one operating or under-construction data center, or is an established developer with a track record (for example, Tract). **New entrant** Has no operating or under-construction data centers.
Status `status`	Stage of development of the building. **Planned** Announced or permitted, but not yet under construction. **Under Construction** Vertical construction is underway. **Operating** Fitted out, with power and all equipment installed. **Canceled** Abandoned by the developer.
Operating year `operating_year`	Year the building came online, or is expected to come online.
Facility power (MW) `capacity_mw`	Total power the building draws at full build-out, including cooling and electrical overhead.
IT capacity (MW) `it_capacity_mw`	Power delivered to the servers themselves, excluding cooling and overhead. Also called critical IT load.

Field	Definition
Building size (sq ft) `building_square_footage`	Gross floor space of the entire building at full build-out, in square feet.
Estimated investment `estimated_investment`	Modeled all-in cost of the data center, in US dollars: the powered shell (building, power and mechanical and electrical systems) plus the servers, GPUs and networking inside it. Excludes on-site power generation. Estimated at $38 million per MW of IT capacity. When only facility power is known, IT capacity is taken as facility power divided by 1.25.
County `county`	County of the building's location.
State `state`	Two-letter state code of the building's location.
Campus `campus_name`	Name of the campus the building belongs to. Buildings on the same campus share it.
Utility `utility`	Retail utility whose service territory the building is in, even when the site plans to run on its own generation.
Utility parent `utility_parent`	The utility's parent company. Blank for co-ops and municipal and public utilities.
ISO/RTO `iso_rto`	Grid operator the building is in: PJM, ERCOT, MISO, SPP, CAISO, NYISO, ISO-NE, or Non-ISO.
Balancing authority `balancing_authority`	Balancing authority the building is in.
Utility EIA ID `utility_eia_id`	The utility's EIA utility number (EIA-861), for matching to EIA data.
Balancing authority code `balancing_authority_code`	The balancing authority's EIA-930 code, for example ERCO, PJM or SOCO.
Tenant `tenant_name`	Company leasing capacity in the building, separated by commas when there are several. Filled only where a tenant has been publicly identified.
End user `end_user_name`	Company actually using the compute, when it differs from the tenant. A tenant may lease a building and resell its capacity to another company.
Latitude `latitude`	Latitude of the building, in decimal degrees.

Field	Definition
Longitude `longitude`	Longitude of the building, in decimal degrees.
Source 1 `source_1`	Primary source supporting the record. Where Cleanview has archived the document, the link is to that copy.
Source 2 `source_2`	Additional supporting source.
Source 3 `source_3`	Additional supporting source.

The utility, utility parent, ISO/RTO and balancing authority fields are blank unless known with high confidence. Buildings on the same campus share them.

Behind-the-meter gas plants

A row is one gas plant built to serve a data center: behind the meter, on site and connected to the grid, or off site and dedicated to a named campus.

> Gas plants are a separate behind-the-meter subscription and aren't included in the base Pro plan.

Field	Definition
Plant `plant_name`	The plant's name in its permit, siting case or announcement. Otherwise, the data center's name followed by "power plant."
Developer `developer`	Company that builds and owns the plant. Often not the data center developer: Williams builds Meta's plants in Ohio.
Data center `campus_name`	Name of the data center campus the plant powers. Matches the campus name in the data center download.
Status `status`	Status of the plant's most advanced unit that isn't canceled. A plant with an operating first stage and a second stage under construction is Operating. A plant is Canceled only when every unit is. **Announced** — Announced or applied for. No air permit or siting approval has been issued. **Permitted** — An air permit or state siting approval has been issued, but construction hasn't started. **Under Construction** — Work on the generating equipment is underway: foundations, equipment on pads, stacks. Clearing and grading don't count. **Operating** — Generating power for its data center, including temporary bridge power. **Canceled** — The project won't be built.
State `state`	Two-letter state code of the plant's location.
County `county`	County where the plant's generating equipment is.
Nameplate (MW) `nameplate_mw`	Number of machines times the manufacturer's rating, summed over the units that aren't canceled. This is the size of the power plant, not the data center's load, and it's usually larger than the load because of backup and redundancy.
Firm output (MW) `firm_output_mw`	Power the plant is contracted, permitted or stated to deliver to its data center. Filled only when a document states it.

Field	Definition
Firm output basis `firm_output_basis`	The kind of document behind the firm output. **contracted** A power purchase or supply contract. **permit limit** The output limit in the plant's permit. **net capacity** The plant's stated net capacity. **developer stated** A figure the developer has given publicly.
Configuration `configuration`	Kinds of generation at the plant, separated by semicolons. **Combined cycle** Gas turbines whose exhaust heat drives a steam turbine. **Simple cycle** Gas turbines without heat recovery. **Reciprocating engines** Gas-fired piston engines. **Fuel cells** Fuel cell servers running on natural gas.
OEMs `oems`	Equipment manufacturers at the plant, separated by semicolons. Blank until the equipment is public.
Models `models`	Equipment models at the plant, separated by semicolons.
Units `machines`	Number of turbines, engines and fuel cell servers that aren't canceled. A minimum when a unit's count isn't public.
Year `first_operating_year`	Year the plant's first unit began generating, or Cleanview's estimate of when it will.
Announced `announcement_date`	Date of the first public record of the plant (YYYY-MM-DD).
Air permit `air_permit_url`	Link to Cleanview's archived copy of the plant's issued air permit, or its latest amendment. Blank until the plant is permitted.
Latitude `latitude`	Latitude of the plant's generating equipment, not the data center campus.
Longitude `longitude`	Longitude of the plant's generating equipment, not the data center campus.

Grid-connected power projects

A row is one project in a grid operator's interconnection queue, or one generator in EIA's monthly survey of power plants (EIA-860M). The same plant can appear in both.

Each download covers one status. Planned projects come from the interconnection queues and EIA-860M, and operating projects from EIA-860M.

Field	Definition
Project `project_name`	Project or power plant name, as the source gives it.
Developer `developer_name`	Company developing or owning the project, as Cleanview has identified it from queue records, interconnection agreements and regulatory filings. Often the parent company of the project LLC named in the queue. Blank where we haven't identified it yet.
Capacity (MW) `capacity_mw`	Capacity of the project or generator in megawatts.
Date `operating_date`	For operating projects, the date the generator began operating. For planned projects, the date it's proposed to come online.
Technology `technology`	Standardized technology type, for example Solar, Wind, Battery, Natural Gas, Nuclear or Hybrid - Solar + Storage.
County `county`	County of the project's location.
State `state`	Two-letter state code of the project's location.
Grid `balancing_authority`	EIA-930 code of the balancing authority the project connects to, for example ERCO (ERCOT), PJM, MISO, CISO (CAISO), SWPP (SPP), NYIS (NYISO), ISNE (ISO-NE) or a utility's own, such as SOCO or DUK.
Status `status`	Stage of development. Each download covers one status. **Planned** Active in an interconnection queue, or reported to EIA as planned. **Operating** Generating power, as reported to EIA.
IA signed `has_ia_signed`	Whether the project has signed an interconnection agreement with its grid operator (true or false). Planned download only. Blank for EIA-860M rows.
Under construction `under_construction`	Whether the project has started construction (true or false). Planned download only. Blank for the CAISO, NYISO and SPP queues, which don't report it.
IR date `ir_request_date`	Date the project's interconnection request was filed (YYYY-MM-DD). Planned download only. Blank for EIA-860M rows.

Field	Definition
Latitude `latitude`	Latitude of the project, in decimal degrees.
Longitude `longitude`	Longitude of the project, in decimal degrees.
Source `source_table`	Where the record comes from. **eia_860m** EIA's monthly survey of power plants (EIA-860M). ***_queue** A grid operator's interconnection queue: caiso_queue, ercot_queue, miso_queue, ne_iso_queue, nyiso_queue, pjm_queue or spp_queue.
Source ID `source_id`	The record's ID in its source: the queue position for queue projects (for example, AB2-089 in PJM), or the EIA plant ID and generator ID for EIA-860M rows (for example, 61179_JCCS3). Source and Source ID together identify a row.

The same fields are available through the Cleanview API. The API documentation is at docs.cleanview.co.