MethaneScan

Data Dictionary

Description

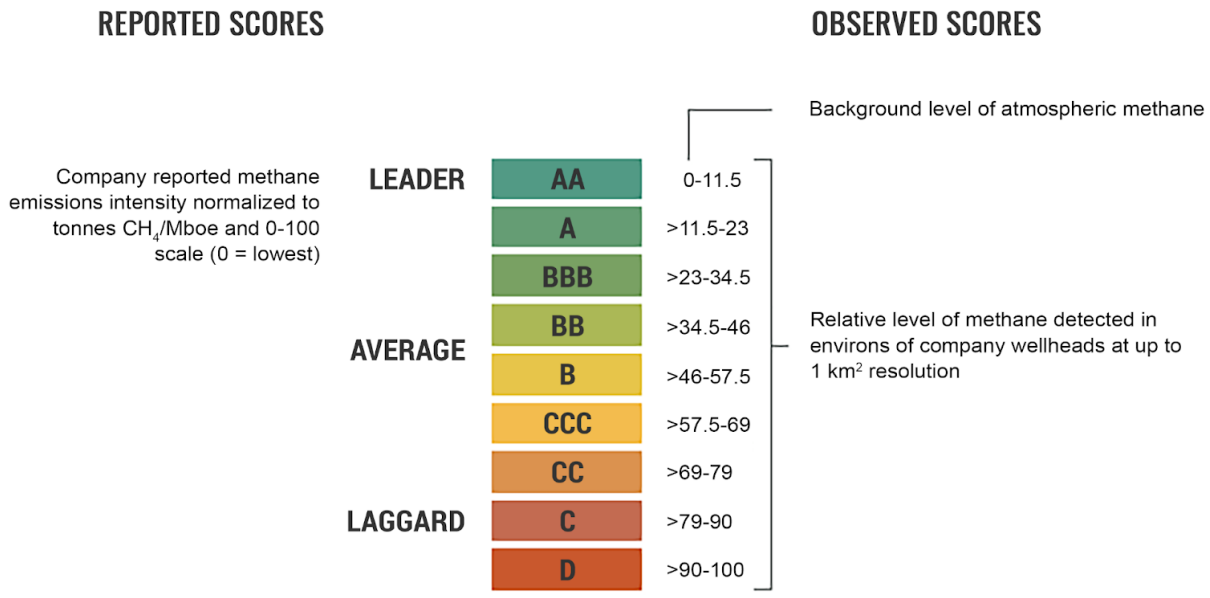
- MethaneScan® reports methane intensity[1] of the 50 largest North American oil & gas companies by production using advanced geospatial technology and compares the satellite-observed scores with company-reported methane intensity.

Resource information

- Update frequency: annual
- Distribution format: CSV
- Encoding (if applicable): utf-8

Letter ratings

- Based on 0-100 scale of methane emissions intensity – both reported and observed – normalized to tonnes CH_4/Mboe (0=lowest)



[1] Methane emissions intensity refers to the "leak rate" of gas during production, or the ratio of methane emissions to natural gas produced.

Geofinancial Analytics, Inc. (GEO) | +1 612-222-9195 | support@geofinancial.com

Attributes

Name	Description	Data Type
company_name	The legal name of the parent/operating company	string
production_rank	Rank by self-reported global production (mboe)	integer
ticker	Ticker for the publicly-traded common share or common-share equivalent security for the company	string
ISIN	ISIN stands for International Securities Identification Numbering system and is the ISO standard unique identifier for financial instruments for the company.	string
FIGI_shareclass	Open standard unique identifier for financial instruments for the company at the highest level in the OpenFIGI symbology	string
FIGI_composite	Open standard unique identifier for financial instruments for the company at the composite level in the OpenFIGI symbology	string
reported_intensity	Company-reported methane emissions intensity in US, normalized to tonnes CH_4/Mboe.	integer
reported_score	*Reported_intensity* normalized to 0-100 scale. 0 = lowest; 100 = intensity greater than or equal 1.0, which corresponds to average methane intensity of coal energy production	decimal from 0-100, inclusive

reported_rating	Letter rating for company-reported methane emissions based on *reported_score*	letter rating from AA-D
reported_last_update	Date of company-reported methane emissions. Most recent publicly available data is used while compiling a data table.	date
observed_CH_4_per_well	Average satellite-observed CH_4 emissions per active well (Kg/year)[2]	float
observed_intensity	Satellite-observed methane emissions intensity; percentage of methane (CH_4 tonnes) emissions to production (CH_4 tonnes equivalent)[3]	float
observed_intensity_+/-	Standard error value for *observed_intensity.* This represents uncertainty in the satellite measurement	float

[2] If well status is unknown for a majority of observed wells, all wells are included for this calculation except abandoned/inactive.

[3] Satellite-observed emission by company = observed CH_4 per well x number of net active wells (if unavailable gross well count is used). Offshore wells/production numbers are excluded from the intensity calculation if the company reports offshore and onshore operations separately.

	of emissions and attribution to the parent company.	
observed_score	*Observed_intensity* normalized to 0-100 scale. 0 = lowest; 100 = intensity greater than or equal 1.0, which corresponds to average methane intensity of coal energy production	decimal from 0-100, inclusive
observed_score_+/-	Standard error value for *observed_score.* This represents uncertainty in the satellite measurement of emissions. *Uncertainty associated with attribution will be added in the next release.*	float
observed_rating	Letter rating for satellite-observed methane emissions based on *observed_score*	letter rating from AA-D
observed_trend_%	Percent change in methane intensity last 12 months in *observed_intensity.* Lower is better.	float
observed_last_update	Date of latest satellite observation data used in a data table	date
reporting_gap	Difference between *reported_intensity* and *observed_intensity*	float
reporting_gap_+/-	Standard error value for *reporting_gap*	float
underreport_factor	O*bserved_score* divided by *reported_score*	float
#_observed_wells	Number of well scores observed by satellite	integer
observations_per_well	Average number of satellite observations per well last year	integer

%_global coverage	% of company's global production observed by satellite	float
methane_fee_$	Estimated annual fee (fine) for excessive methane emissions in USA in next calendar year based on satellite *observed_intensity* and IRA fee structure	float
production_volume	Company-reported global oil & gas production volume (boe/yr) for most recent year (*production_volume_yr*)	integer
production_volume_yr	Year of *production_volume*	integer