

ESG 数据集—全国空气吸收剂量率（环境辐射）数据

1. 数据集名称：全国空气吸收剂量率（环境辐射）数据
2. 数据集访问方式：<https://data.epmap.org/product/radiation>

下载，API，在线 BI 分析。

3. 数据起止时间：2017-01 起到最新
4. 更新频度：每天
5. 数据量：环境质量监测点 22 万多条，核电站周边监测点 23 万多条。
6. 地区覆盖度： 全国省份
7. 数据交付时间：T+0
8. 数据来源：生态环境部国家辐射环境监测网辐射环境自动监测站

<http://data.rmtc.org.cn:8080/gis/PubAgree.html>，监测点位包括环境质量监测点和核电厂监测点。

环境质量监测点主要分布于全国各大中城市，自动站一般安置在城市中的公园、绿地、建筑物顶等相对固定点。

核电厂监测点主要分布于核电厂厂界周围，自动站一般以反应堆为中心按不同距离和方位分成若干扇形进行布设。

9. 数据说明：

本系统发布的空气吸收剂量率为未扣除仪器对宇宙射线响应部分的环境地表 γ 辐射剂量率，单位为戈瑞·小时⁻¹（Gy·h⁻¹）。空气吸收剂量率是一种可直接、快速、连续反映环境辐射水平的测量量,是环境辐射监测的一个重要组成部分.由于它具有上述这些特出的优点,空气吸收剂量率监测对以下方面具有特殊的重要性：

A、获得有关环境天然本底 γ 辐射水平和人类实践活动所引起的环境 γ 辐射水平及其变化的资料；

B、监视核设施及其他辐射装置的源的状况，为释放量出现异常或事故情况发出报警；

C、为环境中的 γ 辐射对公众所致外照射剂量的估算提供数据。

日均值由每日内 3/4 以上的小时均值算术平均得出。日均值的统计时段为北京时间 00:00 至 24:00。发布结果每日更新 1 次，为该站点的日均值。当遇到监测仪器校标、复位等日常维护行为，或出现仪器与通信故障、停电等现象，某些站点会出现一段时间内无监测值或监测值异常的情况。

根据《环境地表 γ 辐射剂量率测定规范》，空气吸收剂量率监测数据必须经过质量审核方可参与评价，为及时满足公众的环境知情权，系统发布的数据为辐射环境自动监测站的实时监测数据，未经审核。环境中 γ 辐射水平的评价请参考《全国空气吸收剂量率季度简报》。

10. 数据集内容：

a) 基础资料：含监测点位名称，所属省市，经纬度。

b) 监测值：环境地表 γ 辐射剂量率，单位为戈瑞·小时⁻¹ ($\text{Gy}\cdot\text{h}^{-1}$)。

11. 数据集推荐用途（仅为示例，不限于如下用途）：

a) 对相关核电站及核电企业运营水平进行分析。

b) 对各个城市，包括涉核及非涉核城市的辐射水平进行分析。

12. 数据集使用案例:

暂无, 新开放数据。

13. 联系方式:

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网址: <http://www.epmap.org>

微博: 上海青悦环保

微信: 美丽环境行动者 ESG 行动者 排污许可行动者

上海青悦 ESG 信息披露与评级方法论参见: <http://www.epmap.org/esgmeth>

ESG data set - national air absorption dose rate (environmental radiation) data

one Data set name: national air absorption dose rate data

two Access to dataset: <https://data.epmap.org/product/radiation>

Download, API, online Bi analysis.

three Data start and end time: from January 2017 to the latest

four Update frequency: Daily

five Data: more than 220000 environmental quality monitoring points, and more than 230000 monitoring points around nuclear power plant

six Regional coverage: national provinces

seven Data delivery time: $t+0$

Data source of data set: radiation environment automatic monitoring station of national radiation environment monitoring network of Ministry of ecological environment [http://data.rmtc.org.cn : 8080/gis/pubagree.html](http://data.rmtc.org.cn:8080/gis/pubagree.html), the monitoring point includes environmental quality monitoring point and nuclear power plant monitoring point.

The monitoring points of environmental quality are mainly distributed in large and medium cities in China. Automatic stations are generally located in the park, green space, building top and other relative fixed points in the city.

The monitoring points of nuclear power plants are mainly distributed around the boundary of nuclear power plants. The automatic stations are generally arranged in different distances and directions by several sectors, with the reactor as the center.

eight Data Description:

The air absorption dose rate issued by this system is the environmental surface without deducting the response part of the instrument to cosmic rays γ . The radiation dose rate is in the form of $\text{Gy} \cdot \text{h}^{-1}$. Air absorption dose rate is a kind of measurement quantity which can directly, quickly and continuously reflect the level of environmental radiation, and is an important part of environmental radiation monitoring. Because of its advantages, air absorption dose rate monitoring has special importance to the following aspects:

- A. Get the natural background of the environment γ Radiation level and environment caused by human practice γ Data on radiation level and its change;
- B. Monitor the status of the source of nuclear facilities and other radiation devices, and give an alarm for the abnormal release or accident;
- C. For the environment γ The radiation provides data for the estimation of the dose of external radiation caused by the public.

The average daily value is obtained by arithmetic average of the average hourly mean of more than 3/4 of the daily. The statistical period of daily average value

is from 00:00 to 24:00 Beijing time. The publication results are updated once a day, which is the daily average value of the site. When the monitoring instrument calibration, reset and other daily maintenance behaviors, or the instrument and communication failure, power failure and other phenomena occur, some stations will have no monitoring value or abnormal monitoring value for a period of time.

According to the environmental surface γ Standard for the measurement of radiation dose rate, the monitoring data of air absorption dose rate must be reviewed by quality before participating in evaluation. In order to meet the public's right to know the environment in time, the data released by the system are real-time monitoring data of automatic radiation environment monitoring station, which has not been audited. In the environment γ For the evaluation of radiation level, please refer to the quarterly briefing on the national air absorption dose rate.

Dataset content:

a) Basic data: including the name of monitoring point, province and province, longitude and latitude.

b) Monitoring value: environmental surface γ The radiation dose rate is in the

form of gory hour-1 ($\text{Gy} \cdot \text{h}^{-1}$).

ten Recommended use of dataset (for example only, not limited to the following purposes):

a) The operation level of related nuclear power plants and nuclear power enterprises is analyzed.

b) The radiation levels of each city, including those involving nuclear and non nuclear related cities, are analyzed.

eleven Dataset use case:

No, new open data.

twelve contact information:

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For information disclosure and Rating Methodology of Shanghai Qingyue ESG,
please refer to: <http://www.epmap.org/esgmetheth>