ESG 数据集—国家地表水水质自动监测实时数据

1. 数据集名称：国家地表水水质自动监测实时数据

2. 数据集访问方式：https://data.epmap.org/product/water

   下载，API，在线 BI 分析。

3. 数据起止时间：2014-04 起到最新

4. 更新频度：每 4 小时

5. 数据量：2014-04-2020-11 100 个自动监测断面左右，之后 1600+自动监测断面

6. 地区覆盖度： 全国省份

7. 数据交付时间：T+0

8. 数据集数据来源：生态环境部地表水水质自动监测实时数据发布系统

   http://106.37.208.243:8068/GJZ/Business/Publish/Main.html （自 2014 年起已历经多次改版）

9. 数据集内容：

   a) 基础资料：含监测断面名称，所属省市，流域，经纬度。

   b) 2020-05 前：监测时间，pH，溶解氧（DO），高锰酸盐指数（CODMn），总有机碳（TOC），氨氮（NH3-N）

   c) 2020-05 后：水温，pH，溶解氧，电导率，浊度，高猛酸盐指数，氨氮，总磷，总氮，叶绿素α，藻密度。

10. 数据集推荐用途（仅为示例，不限于如下用途）：

    a) 城发债地方债等涉及水的风险评估。

b) 对各地水处理相关企业发展前景评估。

c) 对各地各企业所面临气候变化导致的水风险进行评估。

11. 数据集使用案例：

a) 河海大学　水质时空特征及与流域人类活动的关系研究

b) 昆山杜克大学 Duke Kunshan University 太湖地区环境参数与潜在致病菌的关系 The relationships between environmental parameters and potentially pathogenic bacteria in Taihu, China

c) 中国农业大学　湟水河流域典型农田面源污染生态环境影响与系统防控机制研究

d) 中国科学院大学/中国科学院生态环境研究中心　河网连通对我国河流水质水量的影响研究

e) 中国科学技术大学　基于人工智能的水质预测模型

12. 联系方式：

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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 real time data of national surface water quality automatic

monitoring

one Data set name: real time data of national surface water quality automatic

monitoring

two Data set access mode: https://data.epmap.org/product/water

Download, API, online Bi analysis.

three Data start and end time: from April 2014 to the latest

four Update frequency: every 4 hours

five Data volume: about 100 automatic monitoring sections from April 2014 to

November 2020, followed by 1600 + automatic monitoring sections

six Regional coverage: provinces in China

seven Data delivery time: T + 0

eight Data source: real time data release system of surface water quality

automatic monitoring of Ministry of ecological environment

http://106.37.208.243 : 8068 / GJZ / business / publish / main.html, which has been revised many times since 2014

nine Data set content:

a) Basic data: including monitoring section name, province, basin, longitude and latitude.

b) Before 2020-05: monitoring time, pH, dissolved oxygen (do), permanganate index (CODMn), total organic carbon (TOC), ammonia nitrogen (NH3-N)

c) After 2020-05: water temperature, pH, dissolved oxygen, conductivity, turbidity, high ferulate index, ammonia nitrogen, total phosphorus, total nitrogen, chlorophyll α, Algae density.

ten Recommended use of data set (for example only, not limited to the following uses)

a) Risk assessment of water related issues such as urban bonds, local bonds, etc.

b) Evaluate the development prospect of water treatment related enterprises.

c) Assess the water risk caused by climate change faced by local enterprises.

eleven Data set use case:

a) Hohai University Spatial and temporal characteristics of water quality and its relationship with human activities

b) Duke Kunshan University The relationships between environmental parameters and potentially pathogenic bacteria in Taihu, China

c) China Agricultural University Study on the eco-environmental impact of typical farmland non-point source pollution and system control mechanism in Huangshui River Basin

d) University of Chinese Academy of Sciences / ecological environment research center of Chinese Academy of Sciences Influence of river network connectivity on water quality and quantity of rivers in China

e) University of science and technology of China Water quality prediction model based on Artificial Intelligence

twelve contact information:

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