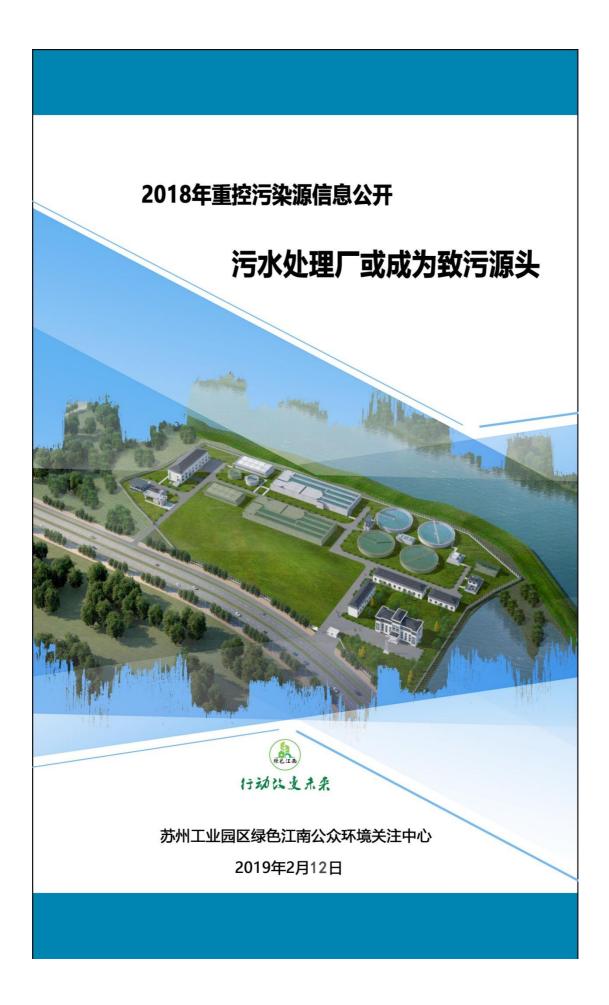
Heavy Pollution Source Information Disclosure in 2018

Sewage treatment plant may become a source of pollution



SIP Lvse Jiangnan PECC February 12,2019



Heavy Pollution Source Information Disclosure in 2018 Sewage treatment plant may become a source of pollution

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1. Abstract

Laws and regulations related to environmental information have been promulgated in recent years, demonstrating the importance and necessity of information disclosure in environmental protection. To promote public participation in the supervision of corporate environmental behavior, PECC collects corporate environmental information and data released by environmental protection departments and works with relevant government agencies and companies to promote corporate green transformation and realize corporate green production.

In 2018, PECC conducted real-time monitoring of the online monitoring data information of 13,567 heavily controlled pollution sources across the country and reported to the local environmental protection bureau on Sina Weibo and the 12369 reporting platform for companies with the excessive discharge of pollutants and abnormal data. Some provincial and municipal environmental protection bureaus have established good and close cooperative relations to promote local environmental protection departments to investigate, rectify and punish companies that exceed the emission standards reported by PECC's official Weibo or 12369.

In 2018, PECC reported 1,579 companies with online monitoring data exceeding

the standard to the local environmental protection department through the Weibo platform and telephone. Following PECC's orderly follow-up, 1133 environmental protection bureaus from all over the country received positive responses, of which 191 illegal emission companies were ordered by the environmental protection department to rectify, administratively penalize, and file a case for investigation.

In the list of major pollutant discharge units in the first quarter released by the Ministry of Ecology and Environment in 2018, nearly half of them are urban sewage treatment plants that are illegally discharging pollutants. The spokesperson of the Ministry of Ecology and Environment stated that "Urban sewage treatment plants are important basic livelihood factories, and sewage treatment plants must not be allowed to become a source of pollution for the people to renovate." Part of the sewage treatment plant is below the limit because both domestic sewage and industrial wastewater must be discharged into natural water bodies after the sewage leaves the site. Sewage treatment plants are an indispensable existence for people's lives and production. Since the sewage treatment plant accepts domestic sewage and industrial sewage treatment plant discharges exceeding the standard, it will have a serious impact on water bodies, humans, and the environment.

In 2018, PECC reported a total of 434 sewage treatment plants with excessive discharge, accounting for about 27.5% of the annual report to the prime minister (1579). This is the first time that PECC has carried out systematic statistics and analysis of online monitoring data of heavy pollution sources (sewage treatment plants) across the country in 2018.

2. Reports and responses of sewage treatment plants nationwide 2.1 Report volume and response rate in various provinces and cities across the country

In terms of the number of reports, East China (Shanghai, Jiangsu, Zhejiang, Anhui,

Fujian, Shandong, Jiangxi) wastewater treatment plants with excessive discharges were reported up to 268 times; followed by North China (Hebei, Tianjin, Inner Mongolia, Beijing, Shaanxi) 66 times; Southwest China (Sichuan) only once. From the perspective of response rate, the national response rate is generally above 50%, but there are also individual provinces and cities with a response rate of 0, such as Henan, Heilongjiang, Yunnan, Gansu, and Qinghai. Regardless of the total number of sewage treatment plants in all provinces across the country, just comparing the responses of the environmental protection departments of various provinces and cities, there has been a phenomenon of unevenness. This not only reflects the importance of local governments on environmental protection but also reflects the degree of information disclosure by environmental protection departments.

With the continuous increase in public participation in environmental protection, the channels for supervision and reporting are no longer limited to the interaction of government affairs microblogs. The 12369 reporting platform also facilitates public participation, and the number of replies is much higher than the number of government affairs microblogs. Although there are reports on the official housing and government affairs Weibo rankings every year, in anticipation of the increase in information disclosure, the feedback of environmental issues on government affairs Weibo is not mandatory, and many government affairs Weibo operations still have big problems; and 12369 is based on Zhonghua the Ministry of Environmental Protection of the People's Republic of China established the "Environmental Reporting Hotline Work Management Measures". Under the premise of legal compulsory force, the completion of 12369 has become the content of the performance evaluation of the environmental protection department.

2.2 Distribution of representative pollutants in sewage treatment plants

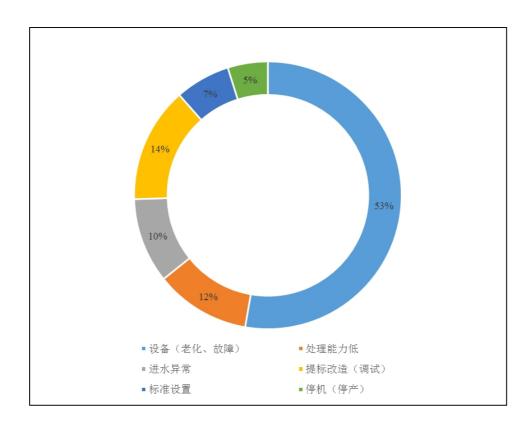
According to the analysis of pollutants discharged from the sewage treatment plant in the 2018 annual PECC giant white exceeding the standard, in the report record of the water quality exceeding the standard, the over-standard factors are mainly COD, ammonia nitrogen, and total phosphorus. COD is often used as an indicator to measure the amount of organic matter in the water. The higher the COD, the more serious the pollution of the water body by organic matter. When COD is too high, it enters the water body, breaking the balance of the water body, not only harming the organisms in the water body, but also through the enrichment of the food chain, and finally enters the human body, causing slow-moving poisoning. The discharge of nitrogen and phosphorus compounds will lead to eutrophication of water bodies.

Causes of excessive COD in the effluent of the sewage treatment plant: too high sludge load, low sludge concentration, insufficient aeration, and treatment overload operation. The frequent excesses of total nitrogen and total phosphorus indicate that in the secondary treatment of sewage treatment plants, the stability of the process and process for nitrogen and phosphorus removal is insufficient, and important parameters of the process of nitrogen and phosphorus removal need to be strictly controlled.

The sewage treated by the sewage treatment plant generally includes domestic sewage and industrial sewage. The heavy metals and persistent organic matter contained therein cannot be naturally degraded, resulting in an enrichment effect, which will cause long-term damage to surface water and soil, and cause great damage to the environment and human health. Hazard and impact. As the last line of defense for pollution control, the sewage treatment plant, if the discharge exceeds the standard, where should the water body be safe? Sewage treatment plants cannot be porters of sewage, so the long-term management of sewage treatment plants must be strengthened.

2.3 Environmental protection department response analysis

according to the response of the environmental protection department in 2018, the reasons for exceeding the standard are divided into equipment (faults, aging), low processing capacity, abnormal water inflow, upgrading and transformation (commissioning), platform standard settings, and downtime, as shown in Figure 1. Figure 1 Classification of Excess Reasons



According to the above figure, the main factor leading to excessive discharge of sewage in the event of equipment problems is the upgrading of the sewage treatment process (commissioning) and insufficient sewage treatment capacity. Let's explain one by one below.

(1) Equipment (aging, failure)

PECC reported on Shaxian Lanfang Water Co., Ltd. on Weibo. Its pH data showed continuous excessive discharge. Random Shaxian Environmental Protection Bureau replied on the 12369 network platform that it had conducted an on-site investigation of the company.

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答复内容	办理单位: 答复内容:	沙县环境保护局 杨杨(绿色江南): 您好。我局于2018年7月6日依法受理你在12369环保举报平台(举报编号:180706350427031575)反映"沙县蓝 芳水务有限公司2018年6月26日至28日期间,在福建省企业自行监测信息公开平台上数据显示,其PH显示连续超标。"悉,经调查核 实,现将处理情况告知如下: 沙县蓝芳水务有限公司自行监测在线监控委托由聚光科技运营。经查看该公司日常中控运行记录台账,该公 司6月22日发现出水PH数据异常,经分析室自行取样检测,出水PH数据人工检测正常,固判断在线PH计故障造成数据异常并通知聚光科技 检修。聚光科技现场检查发现PH计电极出现故障,于6月29日采购更换后,出水在线PH数据正常,该期间PH数据异常并通知聚光科技 己向三明 市环保局报备。关于沙县蓝芳水务有限公司废水日常处理情况,我局环境监测站定期对其取样检测,根据监测报告结果显示,出水PH、 COD等各项指标均能达标排放。接到投诉后,我局执法人员再次对其取样监测,其监测结果出水各项指标均达标。感谢您对环保工作的关 心和支持。附:沙县蓝芳水务有限公司近期受检的环境监测报告(沙环测字〔2018〕159号)、(沙环测字〔2018〕164号)沙县环境 保护局 2018年7月24日

(2) Upgrading and reforming

PECC reported on the Wusu City Sewage Treatment Plant on Weibo. Its ammonia nitrogen data showed continuous excessive discharge. The Wusu City Environmental Supervision Brigade replied on the 12369 platform that it had conducted an on-site investigation of the company and showed that the excess was due to the original treatment process of the plant there is no ammonia nitrogen treatment. Currently, the plant has been upgraded and upgraded and is scheduled to be put into operation in December 2018.

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(3) The treatment capacity of the sewage treatment plant is low

PECC reported on the Xinhe County Sewage Treatment Plant on Weibo, and its ammonia nitrogen data showed continuous excessive discharge. Then the Xinhe County Environmental Supervision Brigade replied on the 12369 network platform that it had conducted an on-site investigation of the company, and it was found that the excess standard was the generator controller of the plant. Small capacity and overloaded operation of the second-stage sewage treatment plant.

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(4) Abnormal water ingress

PECC reported to Hubei Dawu Keliang Environmental Protection Technology Co., Ltd. on Weibo. Its COD data showed intermittent emissions exceeding the standard. Random Dawu County Environmental Protection Bureau replied on the 12369 platform that it had conducted an on-site investigation of the company. Unidentified industrial wastewater entered the plant.



答复内容 か理单位: 大悟县环境保护局 答复内容: 举报人您好!您反映的问题,经大悟县环保局对湖北大悟科亮环保科技有限公司现场检查,发现存在在线数据超标等违法问题,大悟县环 保局已及时处理,经检查发现该企业9月30日有不明工业来水超出该企业设计接纳来水最大值,导致污水处理设施无法处理该股来水,从 而使该企业CODcr出水10月1-3日间隙式超标;2018年10月19日13:00-18:00左右,有不明工业来水进入该厂,导致该企业CODcr10月 20日00:00-10:00超标;该企业将相关情况于2018年10月8日、10月20日以书面形式报告给孝感市环保局和大悟县环保局。该企业在发现 不明工业来水后,迅速采取应急措施,降低处理水量,同时加大风机曝气量和药剂投加量,从工艺上控制出水污水污染因子指标。感谢您 对环保事业的支持!

(5) Standard setting

PECC reported on the Hanzhong Municipal Sewage Treatment Plant on Weibo, and its ammonia nitrogen data showed that the discharge exceeded the standard continuously, and then the Han environmental protection responded to the plant to implement the Level B standard in a private message on Weibo.



(6) Shutdown (stop production)

PECC reported on Longyou Huashui Water Development Co., Ltd. on Weibo. Its total phosphorus data showed continuous discharge exceeding the standard. Random Longyou County Environmental Protection Bureau replied on the 12369 platform that it had conducted an on-site investigation of the company, showing that the excess was due to the suspension period On-site test quality control results.

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According to the response of the environmental protection department, we found that the environmental protection department's handling of enterprises that exceed the standard is different. There are administrative penalties, case investigations, rectifications, and follow-up. Among them, the proportions of filing investigations and ordering rectification are relatively high, each accounting for 48% and 23% of the sewage treatment plants reporting excessive discharge in PECC in 2018. This shows that all regions are paying more and more attention to environmental protection issues, and replies also pay more attention to results and are like responsibility transfer. The content to be followed up is no longer in the majority, accounting for only 11%. Let's explain one by one below.

(1) Filing a case for investigation

PECC reported on the Huangjiabu Binhai Sewage Treatment Plant on Weibo. Its COD data showed continuous excessive discharge. Then the Yuyao Environmental Protection Bureau replied on the 12369 platform that it had sampled the wastewater from the company's discharge outlet, which indeed exceeded the relevant discharge standards. The company filed a case for investigation.



(2) Administrative penalty

PECC reported on Hong'an Yintaida Water Co., Ltd. on Weibo. Its ammonia nitrogen data showed intermittent discharges of ammonia nitrogen. Then the Hong'an County Environmental Protection Bureau replied on the 12369 platform that its ammonia nitrogen did exceed the discharge standard and issued an administrative penalty to the company in advance (hearing) Notification.

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(3) Rectification

PECC reported on the Fenghua Municipal Wastewater Treatment Plant on Weibo. Its total nitrogen data showed continuous excessive discharge. Then the Fenghua District Environmental Protection Bureau replied on the 12369 platform that its water samples were indeed exceeded and issued a rectification decision.

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(4) To be followed up

PECC reported on the Yaozhuang Sewage Treatment Plant of Jiashan Dadi Sewage Treatment Engineering Co., Ltd. on Weibo. Its total nitrogen, total phosphorus, and ammonia nitrogen data showed continuous excessive discharge. Then Jiashan Environmental Protection replied on Weibo that it had been transferred to the supervision team for investigation and treatment.



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3. Conclusion

After the 2018 annual PECC conducts real-time monitoring of the discharge data of national sewage treatment plants, brave Weibo, 12369, and other channels to report to the relevant environmental protection departments to report excessive discharge companies, promote local environmental protection bureaus to promptly accept reports of excessive discharge companies, not only environmental supervision of government departments It is a useful supplement to promote public awareness and participation in information disclosure and environmental management and to grasp the situation of excessive pollutants discharged by sewage treatment plants, which can provide references for public participation, environmental protection research, and policy research.

Based on the analysis of the information disclosure data in 2018, we have found some problems, and give the following suggestions for these problems.

Recommendations to the environmental protection department:

(1) Disclosure of heavy pollution source information is not complete;

(2) The environmental protection government affairs microblog report should be two-pronged with the 12369 platform report, low-cost operation, and multiple channels to solve environmental problems.

Recommendations for sewage treatment plants:

(1) The quality of pollution source monitoring needs to be improved, and the monitoring data should be reviewed and uploaded;

(2) Strengthen the internal management of the enterprise.

Sewage treatment plants are the last line of defense for sewage treatment. In order to reduce the occurrence of over-standard problems, enterprises must not only strengthen management and improve sewage treatment processes, but also the environmental protection department must strengthen supervision and actively promote and supervise sewage treatment enterprises' best upgrade and transformation work. In order to protect the environment and reduce pollution, we should develop a new model of multi-party cooperation between NGOs and environmental protection departments, enterprises, and the public to jointly strengthen environmental supervision and environmental management. In addition, daily public supervision channels should be opened, and public participation methods should be popularized for the public, so as to promote wide public participation.

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