

# Environmental, Safety and Health Management



## Environmental, Safety and Health

### Social Accountability and Environmental, Safety & Health Policy

BenQ Corporation executes the Social Accountability and Environmental, Safety & Health Policy with the following guiding principles:

Executorial Policy:

- Internal inspection, review and improvement to ameliorate employee rights
- Invest in green product design, striving to reduce pollution impact, responding to environmental protection and doing best of environmental citizen
- Actively prevent pollution and implement energy saving, continually improve to maintain safety and health
- Follow and conform to governmental standard and law and meet client request
- Promote and educate the importance of environment, safety and health for employees to fully understand and implement related ideas

### BenQ Social Accountability and Environmental, Safety & Health Policy

**The Social Accountability and Environmental Safety & Health Policy**

- Facilitating corporate social and environmental responsibility & complying with laws and regulations.
- Reducing the use of environmental-related substances & eliminating environmental impacts with green design.
- Preventing pollution, conserving energy, improving safety & health, and continuously reducing hygiene risks.
- Creating a safe and healthy workplace for better physical and mental health of the employees.
- Fully participating in continuous enhancement to the environment, safety, and health through auditing and communication.



### Environmental Safety Health Organization and Responsibility

To fulfill the management of environmental safety health, BenQ president asks divisional heads to form the "Social Responsibility and Environmental Safety Health Management Committee" and appoints a management representative for management of various safety matters and forms a promotional team according to company organization. The policy direction of environmental safety health execution is ruled by the president while the management representative and promotional team proceed with elaborate planning and realization. With regular social responsibility and environmental safety health management examination meeting, member of the committee can control the executorial performance and offer future key directions.

### Environmental Safety Health Certificate and Monitor

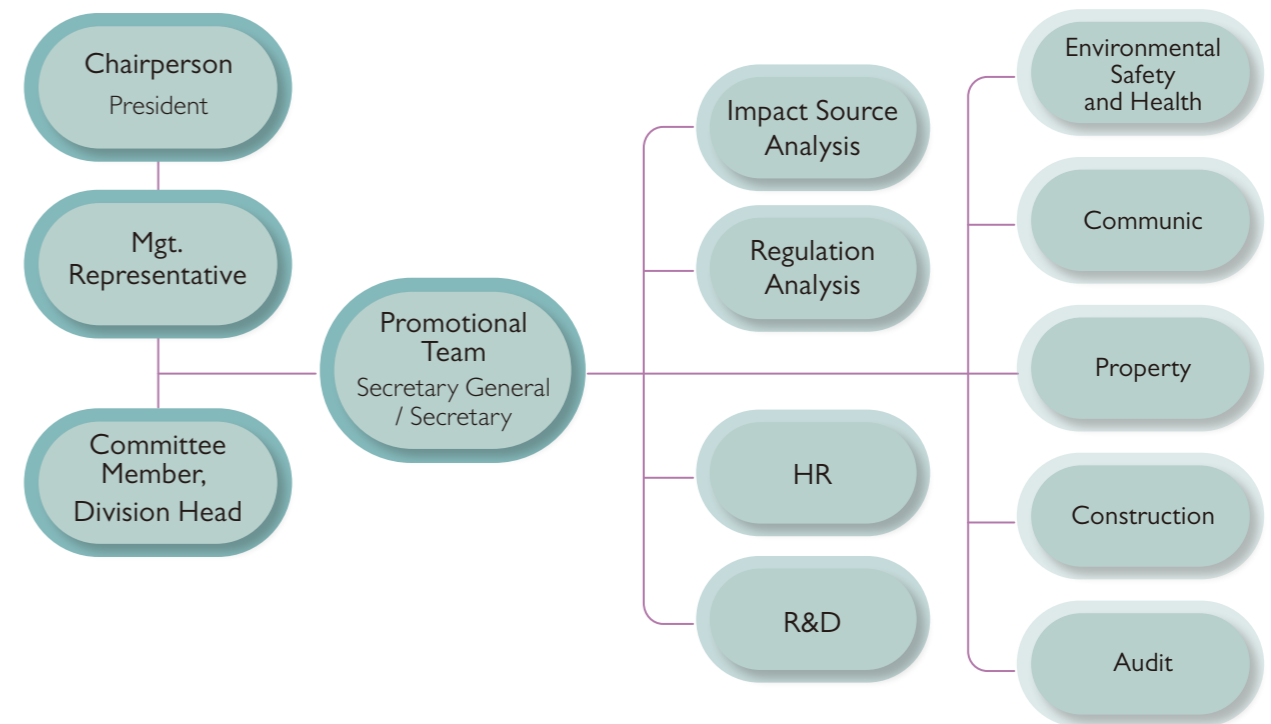
BenQ headquarter has implemented ISO 14001 Environmental Management System and OHSAS 18001 Occupational Health and Safety Assessment Series and has obtained certificates. Currently, the aspects of our certification and monitoring on environmental safety health are as follows:

- Annual internal audit for each department to observe and supervise each other.
- Annual invitation for third-party certification authority to launch external audit.
- Ask vendors' cooperation, value and strive to protect environment and maintain employee safety health together.

### Waste Management

BenQ's waste management method is active management. In overall reduction, the company continues to enforce energy-saving and waste reduction activities. In source management, the company actively realizes waste classification and recycling, dramatically reducing waste generation and increase resource recycling volume to reach the goal of waste reduction. BenQ also holds 3R energy-saving, waste reduction competition for the habit of energy-saving and waste reduction to be realized in corporate culture in a comprehensive way. With the competition, each department can

### Social Responsibility and Environmental Safety Health Management Committee Organization Chart



### ISO 14001, OHSAS 18001 Certificates





strengthen the promotion of energy-saving ability, encouraging employees to actively participate in energy-saving and waste-reduction actions so that BenQ can become a true earth-loving green brand.

The wastes BenQ creates are general waste, paper, aluminum can, metal can, PET bottle, plastic bottle,

aluminum foil package and kitchen waste. In its operations, there are no hazardous wastes generated as defined by the Basel Convention. The performance of waste management and 3R energy-saving, waste-reduction competition in 2018 is shown in the table below.

Waste/Resource Recycling Statistics in 2010-2019 (Unit: KG)

Time	General Waste	Paper	Aluminum, Metal Can	PET Bottle, Plastic Bottle	Aluminum Foil Package
2010	32260	11786	998	533.8	314.4
2011	37095	13639	939.6	758.6	548
2012	31280	10167	974	787	515
2013	30656	7062	951	651	380
2014	29321	7547	932	490	288
2015	28046	8397	1027	574	309
2016	33712	8313	1169	529	433
2017	32903	6301	959	480	552
2018	33922	7315	1129	473	510
2019	26315	7790	1337	508	506

The performance of 3R energy-saving, waste-reduction competition in 2019

Item	Description	Average	Overall Performance
Reuse	Reuse rate of printed papers	3%	Reuse 804 printed papers
Reduce	Average garbage reduction rate	22%	Reduce garbage of 7607 kgs
Recycle	Recycling increase rate	7.5%	Increase recycling weight of 714 kgs

### Water Resource Management

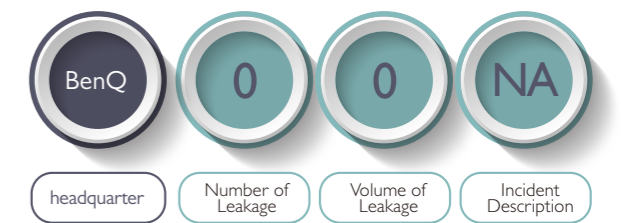
During the product design process of BenQ, no wastewater is generated, only domestic sewage. For the control of domestic sewage, oil separation tank is established for professional staff to operate and maintain. The domestic sewage from BenQ is emitted to the government sewage management system and will not affect water source and land due to sewage generated from water usage. Each year, BenQ also outsources to wastewater detection company acknowledged by the Environmental Protection Administration (EPA) to sample and examine effluent water quality to understand the effluent water quality

status. Meanwhile, the government will supervise the effluent water quality of the company each half year, adopting regular but sporadic sampling analysis. The standard result of government-examined effluent water quality analysis is as shown in table 5.2, displaying our fair performance in waste water prevention.

In 2019, the overall water consumption of BenQ was 21,000 m<sup>3</sup>/year for the water resource management performance; hence, the overall water consumption in 2019 reduced around 5.8% from that in 2018. This is an abundant result and we keep our water preservation status.

Additionally, BenQ does not rely on groundwater abstraction for operational purpose and the company building has air conditioned condensate recycling usage system. Recycled water is mostly used in spraying planted green plant and toilet flush. BenQ headquarter only uses few chemical solvent in product design process and there is no chemical solvent leakage during the process.

Number of Leakage List



2019 Water Quality Examination

Examination Date Item	Standard	Examination Result	
		2019/11/21	
Index of hydrogen ion concentration	ph5~9	8.6	Qualified
Water temperature	45 degree Celsius	24.5	Qualified
Suspended solid	600 mg/l	403	Qualified
Chemical oxygen demand	1200 mg/l	958	Qualified
Biochemical oxygen demand	600 mg/l	395	Qualified
Total oil	Mineral oil 10 mg/l	0.7	Qualified
	Animal and vegetable oils 30 mg/l	27.8	
Sulfide	90 mg/l	0.08	Qualified

### Ecology Management

With all of BenQ's manufacturing sites located within industrial parks, the company does not own, lease, or manage any manufacturing facility located within ecological conservation areas or water conservation areas. It does not engage in any kind of activity that creates a negative influence toward biodiversity. It is BenQ's commitment to ensure that during its product manufacturing and service process, it does not present a negative influence on the ecology.

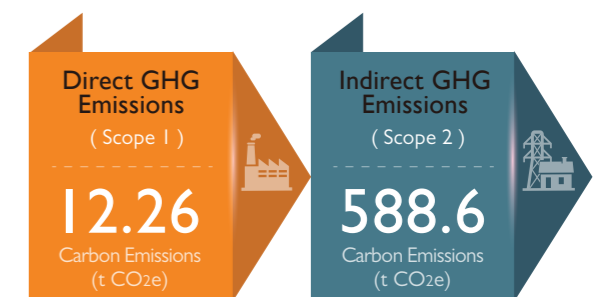
According to 2019GHG emission inventory results, the GHG emissions of BenQ are 600.89 t CO<sub>2</sub>e.

The energy resources utilized within BenQ include fossil fuels (gasoline and diesel) and electricity used in manufacturing operations. Among them, electricity used in manufacturing operations accounts for the major energy consumption. The corporate internal energy consumption details in 2019 are as shown in the table below.

### Climate Change

BenQ established a comprehensive greenhouse gas emissions inventory in accordance with the ISO 14064-1 and GHG protocols. Annual greenhouse gas inventory verification is performed by an independent third party. The 2019 result of greenhouse gas emissions inventory of its global manufacturing sites has passed ISO 14064-1 third-party verification.

Greenhouse Gas Emissions in 2019



Direct and Indirect Energy Use in 2019 \*

Item	2019	Note
<b>Direct Energy Consumption</b>		
Natural Gas (1,000 cubic meter)	0	
Gasoline (kl)	4.9	
Diesel (kl)	1.06	
Refrigerant (ton)	0.063	
<b>Indirect Energy Consumption</b>		
Purchased Electricity (10,000 MWh)	1026.61	

\*  
1. The standard, methodology and assumption used for calculating internal energy consumption: Total energy consumption is added up by the volume of electricity recorded on the electricity bills.  
2. Joule conversion: Use Indicator Protocols Set: the conversion table offered by the direct energy consumption by primary energy source of EN3 of EN.

Striving to fulfill its philosophy of CSR, BenQ will not stop in greenhouse gas inventory despite no major changes. We continue to proceed with related projects of greenhouse gas reduction to stay compatible with the issues of international society in reducing greenhouse gas emission.

Environmental protection has always been one of the focuses of BenQ. Global warming and GHG have received more attention, and BenQ has strived in saving energy and reducing carbon, with various improvement measures having strong performance results.

GHG Reduction Measures



**Equipment Change and Improvement**

1. Lighting uses electricity-saving lamp
2. Chiller equipment to improve and increase performance
3. Use of LEDs in emergency escape lighting
4. Use of LEDs in office
5. Stadium lamps use LED instead
6. Restrooms lamps use LED instead
7. Type of elevator-lighting changed to LED



**Energy-Saving Measure**

1. Chiller equipment operations management
2. Implement BenQ Esco energy-efficiency management
3. Independent, area-specific air conditioning management
4. Manage and stop usage of electrical equipment according to consumption
5. Energy saving activities in the office
6. Night-time energy management
7. Install timer for water dispenser
8. Adjust lobby air-conditioner opening time
9. Adjust office air-conditioning closing time

