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:

- 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

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 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 executional 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

- The Social Accountability and Environmental Safety & Health Policy
- Environmental, Safety and Health
- Social Responsibility and Environmental Safety Health Management Committee Organization Chart
- ISO 14001, OHSAS 18001 Certificates
- BenQ Social Accountability and Environmental, Safety & Health Policy
Waste/Resource Recycling Statistics in 2010-2019 (Unit: KG)

<table>
<thead>
<tr>
<th>Time</th>
<th>General Waste</th>
<th>Paper</th>
<th>Aluminum, Metal Can</th>
<th>PET Bottle, Plastic Bottle</th>
<th>Aluminum Foil Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>32260</td>
<td>11786</td>
<td>998</td>
<td>533.8</td>
<td>3144</td>
</tr>
<tr>
<td>2011</td>
<td>37095</td>
<td>13639</td>
<td>939.6</td>
<td>758.6</td>
<td>548</td>
</tr>
<tr>
<td>2012</td>
<td>31280</td>
<td>10167</td>
<td>974</td>
<td>787</td>
<td>515</td>
</tr>
<tr>
<td>2013</td>
<td>30656</td>
<td>7062</td>
<td>951</td>
<td>651</td>
<td>380</td>
</tr>
<tr>
<td>2014</td>
<td>29321</td>
<td>7547</td>
<td>932</td>
<td>490</td>
<td>288</td>
</tr>
<tr>
<td>2015</td>
<td>28046</td>
<td>8397</td>
<td>1027</td>
<td>574</td>
<td>309</td>
</tr>
<tr>
<td>2016</td>
<td>33712</td>
<td>8313</td>
<td>1169</td>
<td>529</td>
<td>433</td>
</tr>
<tr>
<td>2017</td>
<td>32903</td>
<td>6301</td>
<td>959</td>
<td>480</td>
<td>552</td>
</tr>
<tr>
<td>2018</td>
<td>33922</td>
<td>7315</td>
<td>1129</td>
<td>473</td>
<td>510</td>
</tr>
<tr>
<td>2019</td>
<td>26315</td>
<td>7790</td>
<td>1337</td>
<td>508</td>
<td>506</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Average</th>
<th>Overall Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reuse</td>
<td>Reuse rate of printed papers</td>
<td>3%</td>
<td>Increase recycling weight of 714 kgs</td>
</tr>
<tr>
<td>Reduce</td>
<td>Average garbage reduction rate</td>
<td>22%</td>
<td>Reduce garbage of 7607 kgs</td>
</tr>
<tr>
<td>Recycle</td>
<td>Recycling increase rate</td>
<td>7.5%</td>
<td>Increase recycling weight of 714 kgs</td>
</tr>
</tbody>
</table>

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 m3/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.

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.

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.

According to 2019GHG emission inventory results, the GHG emissions of BenQ are 600.89 t CO2e.

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.
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.

### Direct and Indirect Energy Use in 2019 *

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

*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 EN5 of EN.

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### 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 Eco 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

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