

FY2020 Exhaust gas analysis results of carbonizing equipment and power generation facilities

【Regulation value】

| Items             | Carbonizing equipment               | Power generation facilities     |
|-------------------|-------------------------------------|---------------------------------|
| Dust              | $\leq 0.08\text{g/m}^3\text{N}$     | $\leq 0.04\text{g/m}^3\text{N}$ |
| Sulfur oxides     | $\leq 8.76$ (K value)               | $\leq 8.76$ (K value)           |
| Nitrogen oxides   | 250 ppm                             | 200 ppm                         |
| Hydrogen chloride | $700\text{mg/m}^3\text{N}$          | -                               |
| Dioxins           | $1\text{ ng-TEQ/m}^3\text{N}$       | -                               |
| Dioxins(dust)     | $3\text{ ng-TEQ/g-dry}$             | -                               |
| Mercury           | $50\text{ }\mu\text{g/m}^3\text{N}$ | -                               |

【Measurement value】 Carbonizing equipment

| Sampling date                          | May-20       | Aug-20       | Nov-20       | Feb-21       |
|----------------------------------------|--------------|--------------|--------------|--------------|
| System classification                  | No. 1 system | No. 2 system | No. 1 system | No. 2 system |
| Dust (g/m <sup>3</sup> N)              | 0.016        | < 0.003      | -            | -            |
| Sulfur oxides (K value)                | 2.2          | 0.95         | -            | -            |
| Nitrogen oxides (ppm)                  | 65           | 110          | 71           | 48           |
| Hydrogen chloride (g/m <sup>3</sup> N) | 13           | 4.0          | 8.5          | 38           |
| Dioxins (ng-TEQ/m <sup>3</sup> N)      | 0.00019      | 0.0000021    | -            | -            |
| Dioxins (dust)<br>(ng-TEQ/g-dry)       | 0.00000090   | 0            | -            | -            |
| Mercury ( $\mu\text{g/m}^3\text{N}$ )  | 22           | 24           | 23           | 18           |

【Measurement value】 Power generation facilities

| Sampling date             | May-20 | Nov-20 |
|---------------------------|--------|--------|
| Dust (g/m <sup>3</sup> N) | 0.0046 | -      |
| Sulfur oxides (K value)   | 0.020  | -      |
| Nitrogen oxides (ppm)     | 79     | 17     |