

**Gaseous fuels provided to Global Power Technologies' thermoelectric generators (TEGs)<sup>(1)</sup>:**

1. Shall not contain any particulates larger than 30  $\mu\text{m}$  diameter, including but not limited to sand, dust, gums, crude oil, and impurities.
2. Shall not have a hydrocarbon dew point in excess of 0°C (32°F) at 170 kPa<sub>g</sub> (25 psi<sub>g</sub>).
3. Shall not contain more than 115 mg/Sm<sup>3</sup> <sup>(2)</sup> (approx. 170 ppm) of H<sub>2</sub>S <sup>(3)</sup>.
4. Shall not contain more than 60 mg/Sm<sup>3</sup> (approx. 88 ppm) of Mercaptan Sulphur.
5. Shall not contain more than 200 mg/Sm<sup>3</sup> (approx. 294 ppm) of total Sulphur.
6. Shall not contain more than 10% [CO<sub>2</sub>] and/or [N<sub>2</sub>] by volume, nor vary more than  $\pm$  1% [CO<sub>2</sub>] and/or [N<sub>2</sub>] during operation.
7. Shall not contain more than 120 mg/Sm<sup>3</sup> water vapor.
8. Shall not contain more than 1% by volume of free oxygen.
9. Shall have a nominal higher heating value (HHV) of:
  - Natural Gas: 37 MJ/Sm<sup>3</sup> (1000 BTU/Sft<sup>3</sup> <sup>(2)</sup>)<sup>(1)</sup>
  - Propane/LPG: 93 MJ/Sm<sup>3</sup> (2500 BTU/Sft<sup>3</sup>)<sup>(1)</sup>
  - Butane: 122 MJ/Sm<sup>3</sup> (3300 BTU/Sft<sup>3</sup>)<sup>(1)</sup>
10. Shall not exceed 60°C (140°F) in temperature.

**Notes:**

- (1) For gaseous fuels outside of these specifications, please contact Global Power Technologies.
- (2) Sm<sup>3</sup> = Standard cubic meter, Sft<sup>3</sup> = Standard cubic foot, of gas at 101.325 kPa (1 atm) and 15°C (NIST).
- (3) Contact local representative or Global Power Technologies if H<sub>2</sub>S concentration is greater than 170 ppm.

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