|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| METHOD | FUEL REQUIRED | MAINTENANCE | INSTALLATION | REMOTE COMMUNICATION | EMISSIONS | HAZARD RATING |
| **In-Pipe Turbine Generator (IPTG)** | None | None18 mth. Inspection | Bypass line | Yes | None | Explosion Proof |
| **Fuel Cell** | Propane, Clean Natural gas | Requires fuel service very 130-160 hrs. 3000 hr. life | Foundation & enclosure external temperature limits | Yes | YesCombustion | **Not** Explosion Proof |
| **Solar** | None | Periodic dirt & snow removal | Elaborate foundation, structural steel | Additional cost | None | **Not** Explosion Proof |
| **Gas/Diesel Gen Set** | Petrol, clean gas | Significant fuel/lube/mechanical support | Foundation & enclosure | No | YesCombustion | **Not** Explosion Proof |
| **Thermo-Electric Generation (TEG)** | Clean gas | Significant fuel service/regular monitoring | Foundation & enclosure external temperature limits | No | YesCombustion | **Not** Explosion Proof |

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**Remote Pipeline Power Generation Comparison**

**Conditions:** 2100 to 2200 kwh Hrs./Annum at a rate of 250 Kw. 24 VDC. for battery charging and SCADA Usage