

Diesel fuelled generators

Reference No: 023/2017

Request Date: 22/02/2017

Request

1. How many diesel fuelled generators do you have as either primary, back-up or mobile solutions?
2. What is the output rated power for each unit purchase and or in operation?
3. If know was there a consideration to the carbon foot print of the generators at the time of purchase?
4. What was the per generator capital cost for each diesel fuelled generator made in the last 10 years?
5. What are you operating costs and maintenance regimes for these devices?
6. Do you have issues with their reliability or performance?
7. What is the expected replacement plan for diesel fuelled generators currently deployed in service?
8. Are you considering opting for an alternative solution such as hydrogen fuelled generators (Fuel Cell technology)?
9. What would be the principle replacement criteria if any when you planned to replace the current diesel fuelled generators?
10. Are there any know regulations or pending legislation that will impact your decision to purchase an alternative environmental clean: zero emission and low noise solution?

Response

1. 4 Fixed Primary Generators and 2 Mobile Backup Generators
2. **Primary 1**
Standby – 165 KVA
Prime – 149.6 KV
Primary 2
Standby – 625 KVA
Prime – 600 KVA
Primary 3
Prime – Prime 200 KVA
Primary 4
Standby – 165 KVA
Prime – 150 KVA
The two mobile generators both have same output rating
Standby –165 KVA
Prime – 150 KVA

3. We do not have any information pertaining to this query.
4. Primary 1 - part of the PFI build process for the station – costs not split out from overall construction costs
Primary 2 - 2013/14 - £75,398
Primary 3 – purchased as part of the original station build more than 10 years ago
Primary 4 – 2014/15 - £28,795
2 x Mobile Generators - 2012/13 - £16,999 per unit
5. The generators are on 6 monthly maintenance which is carried out by a specialist contractor. We are unable to provide maintenance costs as these are these are considered commercially sensitive.
We are unable to provide operating costs because we do not keep separate records for generator fuel.
6. We do not have any issues with reliability or performance
7. Generators are used for business continuity purposes and would only be replaced should they be beyond economic repair.
8. This is not a consideration at the current time due to the age and condition of the generators.
9. The replacement criteria would be triggered in the event of uneconomical repair at which time a review of the market, current legislation and best practice would be considered.
10. The Authority are not planning to replace any generators in the near future and I would refer you to answer 9 above in relation to legislation changes.