

**My questions relate to value for money and cleaner air. As part of the ever increasing concerns with the air quality in the UK, the use of diesel fuelled engines are becoming increasingly less desirable. The Government are beginning to impose sanctions against diesel fuelled vehicles but there are other devices, such as generators, that are used. Should the Service continue investing money in products that damage the public health of the country? Please can you provide the answers to the questions below?**

West Midlands Police (WMP) has no evidence that the provision of diesel powered standby generators to protect essential police services is damaging to public health.

**1. How many diesel fuelled generators do you have as either primary, back-up or mobile solutions?**

WMP has 36 fixed diesel powered generators which are used for back-up purposes only.

**2. What is the output rated power for each unit purchase and or in operation?**

No.	Rated KVA
1	500
2	160
3	315
4	225
5a	800
5b	800
6	252
7	210
8	520

9	150
10	250
11	210
12	200
13	200
14	100
15	140
16	100
17	335
18	320
19	22
20	275
21	25
22	165
23	100
24	200
25	200
26	65
27	230

28	670
29	257
30	350
31	640
32	640
33a	800
33b	800
33c	800

**3. If know was there a consideration to the carbon foot print of the generators at the time of purchase?**

No. Being emergency standby generators their normal status is inactive, with negligible carbon generation.

**4. What was the per generator capital cost for each diesel fuelled generator made in the last 10 years?**

Our generators are standby generators so have very little use or wear. Consequently almost all are old and their original purchase costs are no longer available. There are a few new generators, but these were purchased as part of new building project 'bundles' and their individual prices are not available.

**5. What are you operating costs and maintenance regimes for these devices?**

Spend on generator maintenance and operation in the last full financial year (15/16) was £17,071. Generators are inspected and test run monthly, with some critical sites being inspected and test run twice a month. Additional maintenance activities and tests are performed annually.

**6. Do you have issues with their reliability or performance?**

There is no recorded information held

**7. What is the expected replacement plan for diesel fuelled generators currently deployed in service?**

As above, our generators experience little wear and consequently there are no plans for replacement.

**8. Are you considering opting for an alternative solution such as hydrogen fuelled generators (Fuel Cell technology)?**

No current plans, but when generator replacements are needed we will review available technologies and make a judgement based on technical suitability and cost.

**9. What would be the principle replacement criteria if any when you planned to replace the current diesel fuelled generators?**

Statutory compliance, technical suitability, cost, environmental impact, social responsibility.

**10. Are there any known regulations or pending legislation that will impact your decision to purchase an alternative environmental clean: zero emission and low noise solution?**

Planning regulations and local planning restrictions