



HEADQUARTERS
One Lochside
1 Lochside Avenue
Edinburgh
EH12 9DJ

Our Ref: HQ26191

23 September 2026

Dear

Thank you for your request dated Wednesday 26th August 2026 under the Freedom of Information (Scotland) Act 2002 (FOISA) regarding HMP Barlinnie Energy Consumption/Expenditure and as a comparison the data from HMP Glasgow.

For reference, you requested:

- RFI 1:** HMP Barlinnie - Total annual electricity consumption in kWh
- RFI 2:** HMP Barlinnie - Total annual electricity expenditure, including standing charges
- RFI 3:** HMP Barlinnie - Average electricity unit cost paid per kWh
- RFI 4:** HMP Barlinnie - Maximum recorded electrical demand in kW or kVA
- RFI 5:** HMP Barlinnie - Total annual gas or other heating-fuel consumption in kWh
- RFI 6:** HMP Barlinnie - Total annual gas or heating-fuel expenditure
- RFI 7:** HMP Barlinnie - Total annual on-site renewable-energy generation, if applicable
- RFI 8:** HMP Barlinnie - The prison's gross internal floor area
- RFI 9:** HMP Barlinnie - Average annual prisoner population and staff numbers
- RFI 10:** HMP Barlinnie - Details of any energy-management, building-management or submetering system currently installed
- RFI 11:** HMP Glasgow's predicted annual electricity consumption
- RFI 12:** HMP Glasgow's predicted annual electricity expenditure
- RFI 13:** HMP Glasgow's tariff assumptions used within that forecast
- RFI 14:** HMP Glasgow's projected 10-, 20- and 30-year electricity expenditure
- RFI 15:** HMP Glasgow's forecast peak electrical demand
- RFI 16:** HMP Glasgow' planned renewable-generation and battery-storage capacity
- RFI 17:** The operational-energy benchmark used to compare HMP Glasgow with HMP Barlinnie or other prisons

If any figures are not finalised, please provide the latest design-stage estimates held by the Scottish Prison Service.

We have now completed our search for the information you requested.

RFI 1 Response:

Total annual electricity consumption in kWh for the previous 5 financial years:

Financial Year	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026
Annual Electrical Consumption (kWh)	3,414,330	3,501,580	3,450,120	3,385,310	3,432,719

RFI 2 Response:

Total annual electricity expenditure, including standing charges for the previous 5 financial years:

Financial Year	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026
Total annual electricity expenditure	£534,371	£621,327	£1,039,412	£1,158,011	£908,084

RFI 3 Response:

Average electricity unit cost paid per kWh for the previous 5 financial years:

Financial Year	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026
Average Electricity Unit Cost (£/kWh)	£0.12	£0.14	£0.23	£0.26	£0.20

RFI 4 Response:

Maximum recorded electrical demand in kW or kVA for the previous 5 financial years:

Financial Year	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026
Maximum Recorded Electrical Demand (kVA)	772	797	701	709	748

RFI 5 Response:

Total annual gas or other heating-fuel consumption in kWh for the previous 5 financial years:

Financial Year	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026
Annual Gas Consumption (kWh)	20,153,008	19,886,486	21,656,868	20,276,336	20,295,094

RFI 6 Response:

Total annual gas or heating-fuel expenditure for the previous 5 financial years:

Financial Year	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026
Annual Gas Expenditure	£564,458	£1,625,070	£1,382,897	£1,433,756	£1,279,406

RFI 7 Response:

HMP Barlinnie has no on-site renewable-energy generation.

RFI 8 Response:

Barlinnie gross internal floor area is 47,271m².

RFI 9 Response:

HMP Barlinnie average staff number position and prisoner population for the last 5 financial years:

Financial Year	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026
Average staff number	638	604	607	628	624
Average Prisoner Population	1215	1235	1368	1370	1388

RFI 10 Response:

The Building Energy Management System (BEMS) currently installed at HMP Barlinnie is Trend 963 v3.71.

RFI 11 Response:

Estimated net annual electricity consumption is 7,620 MWh to 11,010 MWh per annum, after allowing for the contribution from planned PV generation. The central estimate is approximately 9,315 MWh per annum.

RFI 12 Response:

The central electricity cost estimate is approximately £922,185 per annum (9,315 MWh × £99/MWh).

RFI 13 Response:

The tariff assumption used the central UK Government projection for 2028 at the time of the last calculation, in July 2024. The most recent tariff projections are available here:

<https://www.gov.uk/government/publications/valuation-of-energy-use-and-greenhouse-gas-emissions-for-appraisal>

RFI 14 Response:

SPS does not hold recorded information falling within the scope of this part of your request. Accordingly, in terms of section 17(1) of FOISA, we must advise that the information is not held.

Where appropriate, SPS has considered whether advice and assistance can be provided under section 15 of FOISA to help you obtain the information you are seeking. While SPS does not hold recorded information falling within the scope of this request, you may wish to use the projected electricity consumption figures provided at RFI 11 together with the UK Government tariff projections referred to at RFI 13 to derive your own estimates.

RFI 15 Response:

SPS does not hold recorded information falling within the scope of this part of your request. Accordingly, in terms of section 17(1) of FOISA, we must advise that the information is not held.

RFI 16 Response:

Planned PV generation is estimated at 490 MWh to 720 MWh per annum, based on 7,000–8,000 m² of photovoltaic panels with a conservative yield of 70–90 kWh/m²/year.

SPS has no current plans to install battery storage at HMP Glasgow and therefore does not hold recorded information regarding planned battery-storage capacity. Accordingly, in terms of section 17(1) of FOISA, we must advise that the information is not held.

RFI 17 Response:

SPS calculated the central projection of the cost of energy use (electricity) in HMP Glasgow using the primary energy consumption of 130 kWh/m²/year ±10%, giving a range of 104–156 kWh/m²/year for the main buildings, additional allowances of 23 kWh/m²/year for catering and 12 kWh/m²/year for laundry then compared this with the total cost of energy used (both electricity and gas) at HMP Barlinnie for the financial year of 2022/23.

SPS does not hold any further recorded information identifying a separate operational-energy benchmark. The methodology described above is the method used by SPS for this comparison.

This concludes our response to your request.

If you are unhappy with this response to your request, you may ask us to conduct an internal review, by writing to The Chief Executive, One Lochside, 1 Lochside Avenue, Edinburgh, EH12 9DJ. Your request should explain why you wish a review to be conducted and should be made within forty working days of receipt of this letter, and we will reply within twenty working days of receipt. If you are not satisfied with the result of the review, you then have the right to make a formal complaint to the Scottish Information Commissioner.

Yours sincerely

Freedom of Information Adviser