

1 Q. Consumer Question: Would a new Holyrood-type unit be more energy-efficient and
2 less-polluting than the ones currently operating at Holyrood? By what orders of
3 magnitude?

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6 A. A new Holyrood-type unit (replacement of the existing boilers with new boilers of
7 the same type (i.e. same technology)) would not be more energy-efficient than the
8 ones currently operating at Holyrood.

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10 Also, new units would not be less-polluting without the addition of various pollution
11 control technologies or the use of cleaner fuel. If they were provided with low NO_x
12 burners, NO_x emissions would be reduced by about 50 percent. If scrubbers and
13 ESPs were added, SO₂ and particulate emissions could be reduced by up to 90+
14 percent. The reduction in emissions from cleaner fuel would depend on the
15 characteristics of the fuel.

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17 The amount of greenhouse gases emitted would also not decrease. In fact, the
18 addition of pollution control equipment would make the units less efficient, thus
19 increasing the fuel consumption and thus the amount of greenhouse gases emitted
20 by approximately 3% over a unit without scrubbers and ESPs.