

- 1 Q. **Holyrood fuel efficiency and station service**
- 2 With the reference to Volume I, page 3.24, please provide an MS excel copy of the
- 3 data in graphical and tabular form showing actual operating efficiencies of each unit
- 4 at Holyrood for the last 5 years.
- 5
- 6
- 7 A. The Holyrood operating efficiency and conversion factors of each unit and
- 8 conversion factor of the plant overall is provided in Table 1.

Table 1 Efficiency (%) and Conversion Factor (kWh/bbl)

Year	Unit 1		Unit 2		Unit 3		Plant
	Gross Efficiency (%)	Gross Conversion Factor (kWh/bbl)	Gross Efficiency (%)	Gross Conversion Factor (kWh/bbl)	Gross Efficiency (%)	Gross Conversion Factor (kWh/bbl)	Net Conversion Factor (kWh/bbl)
2012	34.4	657	33.4	637	32.7	624	599
2013	34.0	642	33.2	626	33.5	632	594
2014	34.3	633	33.5	619	33.1	612	583
2015	34.9	646	34.2	631	34.3	634	601
2016	34.2	641	33.4	625	34.4	644	608

- 9 Note that the individual unit quantities shown are gross (excluding the impact of
- 10 station service), as station service is measured and tracked on a plant basis. The
- 11 overall plant conversion factor is indicated on a net basis. The efficiency and
- 12 conversion factor of a unit and the overall plant are largely influenced by the level
- 13 of loading experienced by the units.
- 14
- 15 Figures 1, 2, and 3 provide a summary of the operating efficiency and conversion
- 16 factor data provided in Table 1.

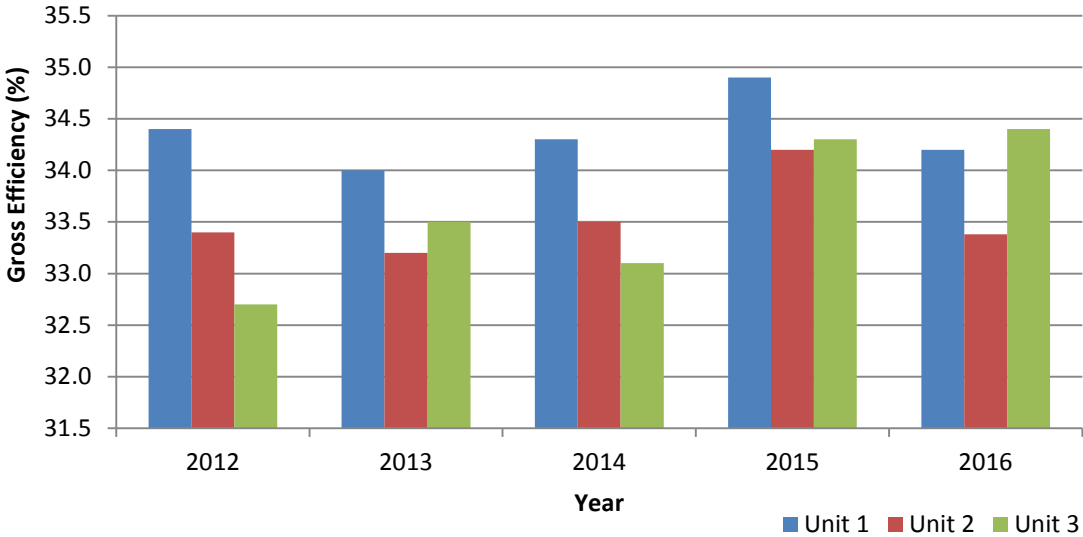


Figure 1 – Holyrood Unit Gross Efficiencies (%)

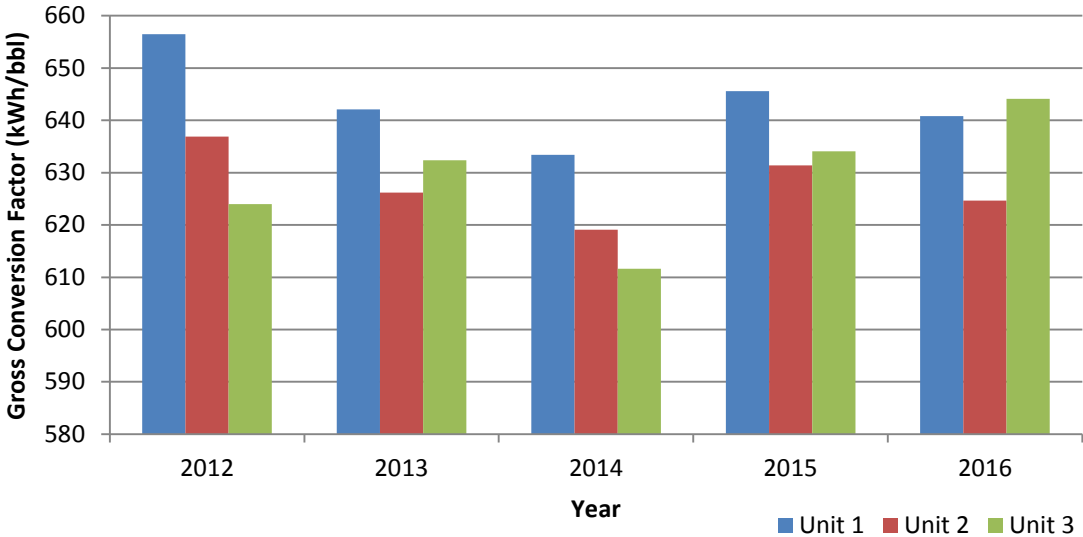


Figure 2 – Holyrood Unit Gross Conversion Factor (kWh/bbl)

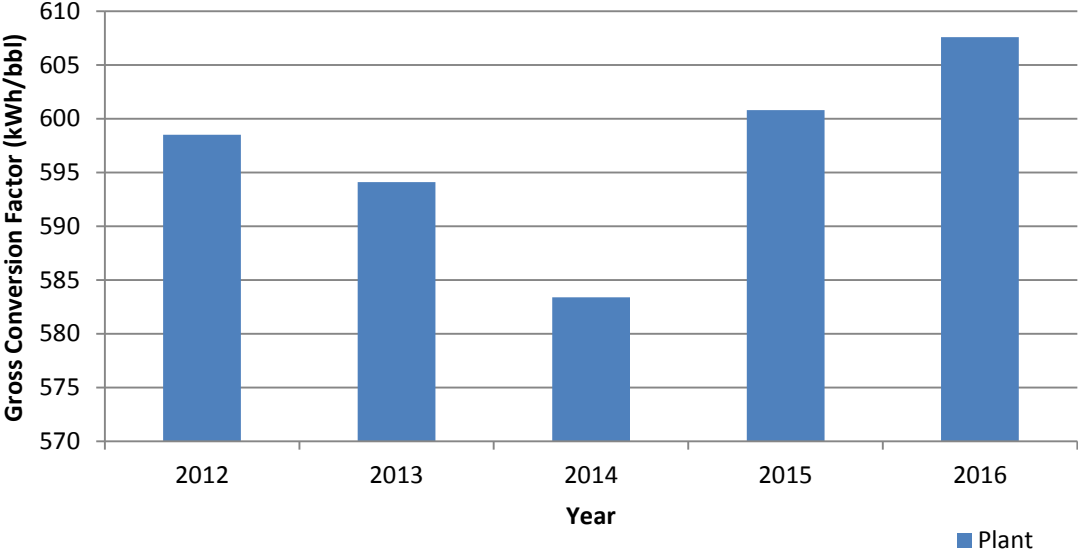


Figure 3 – Holyrood Plant Net Conversion Factor (kWh/bbl)