

1 Q. With respect to the previous question, provide a table that shows total gross
2 generation, net energy production, losses and percentage losses for each
3 year 1992 to 2002 and advise where gross generation is measured, where
4 net energy production is measured and explain where the losses occur and
5 the reason for the changes from year to year.

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8 A. The Holyrood production as requested is provided in the following table.
9 There are no system losses attributed to Holyrood and therefore it is
10 assumed the losses in question are what Hydro refers as station services.

Holyrood Generating Station				
Year	Gross Generation (kWh)	Station Service (kWh)	Station Service (%)	Net Energy Production (kWh)
1992	1,812,450,000	106,237,160	5.86%	1,706,212,840
1993	1,661,130,000	102,246,660	6.16%	1,558,883,340
1994	839,760,000	62,865,600	7.49%	776,894,400
1995	1,626,980,000	93,901,920	5.77%	1,533,078,080
1996	1,493,060,000	89,463,880	5.99%	1,403,596,120
1997	1,625,380,000	94,079,080	5.79%	1,531,300,920
1998	1,343,480,000	80,215,940	5.97%	1,263,264,060
1999	993,290,000	73,488,480	7.40%	919,801,520
2000	1,040,450,000	70,166,720	6.74%	970,283,280
2001	2,218,570,000	120,080,300	5.41%	2,098,489,700
2002	2,510,590,000	125,328,000	4.99%	2,385,262,000

11 Gross generation is measured at the terminals of each generator.

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13 Net energy production is calculated and not measured. It is the difference
14 between the gross generation and the metered station service use at the
15 plant.

1 The station service is the energy used in the plant for all requirements of the
2 plant such as pump motors, fan motors, heating, lighting etc. The changes
3 that occur from year to year are caused by varying plant production
4 requirements and to some extent the maintenance activities being carried out
5 in the plant.