

- 1 Q. Further to IC-24:
- 2 a. Provide a table that shows total gross generation, net energy production,
- 3 losses and percentage losses for each year 1992 to 2000.
- 4 b. Where is gross generation measured?
- 5 c. Where is net energy production measured?
- 6 d. Explain where the losses occur and the reason for the changes from year
- 7 to year.
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- 9 A. a. The Holyrood production as requested is provided in the following table.
- 10 There are no system losses attributed to Holyrood and therefore it is
- 11 assumed the losses in question are what Hydro refers as to station
- 12 services.
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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

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- 16 b. Gross generation is measured at the terminals of each generator.
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- 1 c. Net energy production is calculated and not measured. It is the difference
2 between the gross generation and the metered station service use at the
3 plant.
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- 6 d. The station service is the energy used in the plant for all requirements of
7 the plant such as pump motors, fan motors, heating, lighting etc. The
8 changes that occur from year to year are caused by varying plant
9 production requirements and to some extent the maintenance activities
10 being carried out in the plant.