

1 Q. (Reference 2017 GRA Volume I) Provide a table showing the annual penetration
2 rate for electrical space heating in the L'Anse Au Loup system since the start of the
3 arrangement with Hydro Quebec to supply that system.

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6 A. Please refer to Table 1 which provides Hydro's data on the penetration of electric
7 heat in domestic customers served by the L'Anse au Loup system. The two data
8 sources include Hydro's customer accounting records and customer survey data.

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10 The penetration rates indicated by Hydro's customer accounting records are based
11 on Hydro's partitioning of its domestic customers on the basis of their electricity
12 consumption or service upgrade requests for increased amperage. The partitioning
13 is considered by Hydro to be generally reflective of the percentage of domestic
14 customers using electricity as a primary heating heat.

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16 The penetration rates indicated by Customer Survey reflect the results of domestic
17 customer surveys completed by Hydro in the years 2001 and 2010 that provided the
18 percentage of domestic customers that indicated the use of electricity as a primary
19 heating fuel. Hydro's customer survey results determine the follow: 6% in 2001 and
20 36% in 2010.

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22 Hydro does not have annual penetration of electric heating data for its general
23 service customers and does not have annual penetration statistics of customers
24 relying on electricity as a supplementary space heating fuel.

**Table 1 – Estimates of Electric Heat Penetration in
L'anse au Loup Domestic Customer Class**

Year	Customer Accounting Records
1996	1%
1997	1%
1998	2%
1999	2%
2000	3%
2001	3%
2002	3%
2003	3%
2004	4%
2005	4%
2006	5%
2007	8%
2008	28%
2009	37%
2010	40%
2011	45%
2012	46%
2013	47%
2014	49%
2015	50%
2016	50%