

**Production**

- Q. Provide the following data, expressed annually unless otherwise indicated, for the period 1992 to 2002:**
- a) Number of NP owned portable generating units in operational condition and their location,**
  - b) Number of island located Hydro owned portable generating units in operational condition and their location,**
  - c) Power produced and sold by each NP portable generating unit,**
  - d) Short run marginal cost of the energy produced and sold by each NP owned portable generating unit**
  - e) Number of times each NP owned portable generating unit was called upon to “support system capacity”.**

**A.**

- a) Newfoundland Power owned three (3) portable generating units in operating condition during the period from 1992 to 2002:
  - 1. (7.5 MVA), located at Grand Bay, Port Aux Basques
  - 2. (0.7 MVA), located at Grand Bay, Port Aux Basques
  - 3. (0.7 MVA), located at Grand Bay, Port Aux Basques

- b) Table 1 lists the island-located portable generating units owned by Newfoundland Hydro during this period.

| <b>Table 1<sup>1</sup></b><br><b>Newfoundland &amp; Labrador Hydro Island Owned Portable Diesel Generating Units</b> |                 |                        |
|--|-----------------|------------------------|
| <b>Year</b>  | <b>Location</b> | <b>Number of Units</b> |
| 1992   | Roddickton      | 2                      |
|  | St. Anthony     | 2                      |
| 1993   | Roddickton      | 2                      |
|  | St. Anthony     | 2                      |
| 1994   | Roddickton      | 2                      |
|  | St. Anthony     | 2                      |
| 1995   | Roddickton      | 1                      |
|  | St. Anthony     | 2                      |
| 1996   | Roddickton      | 1                      |
|  | St. Anthony     | 1                      |
|  | Ramea           | 1                      |
| 1997   | Roddickton      | 1                      |
|  | St. Anthony     | 1                      |
|  | Ramea           | 1                      |
| 1998   | Roddickton      | 1                      |
|  | St. Anthony     | 1                      |
| 1999   | Roddickton      | 1                      |
|  | St. Anthony     | 1                      |
| 2000   | Roddickton      | 2                      |
| 2001   | Roddickton      | 2                      |
| 2002   | Roddickton      | 2                      |

<sup>1</sup> All units are 850-kilowatt mobile diesels

- c) Table 2 shows power produced and sold by each Newfoundland Power unit in MWs (data is only reasonably available for the period from 1998 to 2002):

| <b>Table 2</b><br><b>MWhs Produced/Sold</b> |      |      |      |      |      |
|---|------|------|------|------|------|
| UNIT  | 1998 | 1999 | 2000 | 2001 | 2002 |
| <b>Mobile Gas Turbine</b>                   | 137  | 518  | 354  | 246  | 194  |
| <b>Mobile Diesel No. 1</b>                  | 14   | 28   | 19   | 7    | 13   |
| <b>Mobile Diesel No. 2</b>                  | 10   | 24   | 16   | 6    | 6    |

- d) Table 3 shows short run marginal cost of the energy produced and sold by each Newfoundland Power owned portable generating unit in \$ per kWh (data is only reasonably available for the period from 1998 to 2002):

| <b>Table 3</b><br><b>\$/kWh</b> |      |      |      |      |      |
|---------------------------------|------|------|------|------|------|
| UNIT                            | 1998 | 1999 | 2000 | 2001 | 2002 |
| <b>Mobile Gas Turbine</b>       | 0.16 | 0.14 | 0.21 | 0.25 | 0.25 |
| <b>Mobile Diesel No. 1</b>      | 0.12 | 0.12 | 0.13 | 0.15 | 0.14 |
| <b>Mobile Diesel No. 2</b>      | 0.12 | 0.12 | 0.14 | 0.15 | 0.17 |

- e) The Newfoundland Power owned portable generating units have been used to supply isolated loads, primarily in the Port Aux Basques area, when the normal supply line or substation is out of service due to system problems or for planned maintenance. The units have been placed on standby and made ready to support system capacity during peak load conditions but they have not been called upon to do so during the period from 1992 to 2002.