

**ALBERTA ELECTRIC ENERGY GENERATION (GWh) BY RESOURCE AND INTERCHANGE**

| Year | Resource Type |             |         |         |                  |       |           |         |          |           | Net Interchange |          |  |
|------|---------------|-------------|---------|---------|------------------|-------|-----------|---------|----------|-----------|-----------------|----------|--|
|      | Coal          | Natural Gas | Hydro   | Wind    | Biogas & Biomass | Solar | sub total |         |          | In        | Out             | Total    |  |
|      |               |             |         |         |                  |       | Renewable | *Others | Total    |           |                 |          |  |
| 1985 | 27,798.4      | 3,806.3     | 1,385.4 | 0.1     | 396.8            | 0.0   | 1,782.3   | 0.4     | 33,387.4 |           | 150.7           | 33,236.7 |  |
| 1986 | 29,094.5      | 3,524.4     | 1,791.4 | 0.2     | 408.9            | 0.0   | 2,200.5   | 0.5     | 34,819.9 |           | 100.9           | 34,719.0 |  |
| 1987 | 30,886.2      | 4,164.9     | 1,443.6 | 0.3     | 373.7            | 0.0   | 1,817.6   | 0.4     | 36,869.1 |           | 478.7           | 36,390.4 |  |
| 1988 | 33,103.5      | 5,300.7     | 1,422.7 | 0.2     | 381.8            | 0.0   | 1,804.7   | 0.4     | 40,209.3 |           | 866.5           | 39,342.8 |  |
| 1989 | 34,002.6      | 7,341.1     | 1,589.5 | 0.2     | 377.5            | 0.0   | 1,967.2   | 0.6     | 43,311.5 |           | 2,289.5         | 41,022.0 |  |
| 1990 | 34,963.6      | 5,551.5     | 2,050.9 | 0.6     | 629.0            | 0.0   | 2,680.5   | 0.6     | 43,196.2 |           | 816.0           | 42,380.2 |  |
| 1991 | 36,689.5      | 5,129.6     | 2,031.8 | 0.7     | 705.2            | 0.0   | 2,737.7   | 0.5     | 44,557.3 |           | 305.3           | 44,252.0 |  |
| 1992 | 38,546.7      | 6,814.2     | 1,575.0 | 0.5     | 913.9            | 0.0   | 2,489.4   | 0.4     | 47,850.7 |           | 1,642.7         | 46,208.0 |  |
| 1993 | 39,187.2      | 6,762.4     | 1,792.3 | 1.8     | 920.3            | 0.0   | 2,714.4   | 0.5     | 48,664.5 |           | 1,599.7         | 47,064.8 |  |
| 1994 | 42,269.8      | 7,468.9     | 1,763.2 | 35.6    | 1,370.9          | 0.0   | 3,169.7   | 1.5     | 52,909.9 | -         | 2,108.6         | 50,801.3 |  |
| 1995 | 42,460.8      | 6,236.8     | 1,999.8 | 54.3    | 1,452.6          | 0.0   | 3,506.7   | 1.3     | 52,205.6 | -         | 958.9           | 51,246.7 |  |
| 1996 | 41,220.3      | 7,135.0     | 1,966.7 | 59.1    | 1,583.1          | 0.0   | 3,608.9   | 0.4     | 51,964.6 | 1,883.8 - |                 | 53,848.4 |  |
| 1997 | 43,054.2      | 7,654.1     | 1,824.3 | 62.0    | 1,628.8          | 0.0   | 3,515.1   | 0.4     | 54,223.8 | 1,039.5 - |                 | 55,263.3 |  |
| 1998 | 41,267.7      | 10,607.9    | 2,043.3 | 49.4    | 1,659.9          | 0.0   | 3,752.6   | 0.4     | 55,628.6 | 768.2 -   |                 | 56,396.8 |  |
| 1999 | 40,276.7      | 10,645.3    | 2,181.0 | 64.6    | 1,718.0          | 0.0   | 3,963.6   | 0.3     | 54,885.9 | 999.7 -   |                 | 55,885.6 |  |
| 2000 | 40,462.2      | 13,937.3    | 1,748.2 | 71.8    | 1,625.7          | 0.0   | 3,445.7   | 0.4     | 57,845.6 | 360.3 -   |                 | 58,205.9 |  |
| 2001 | 41,713.3      | 15,493.6    | 1,446.3 | 151.0   | 1,619.4          | 0.0   | 3,216.7   | 207.0   | 60,630.6 | -         | 1,130.6         | 59,500.0 |  |
| 2002 | 42,541.7      | 14,623.3    | 1,668.0 | 296.1   | 1,686.4          | 0.0   | 3,650.5   | 266.7   | 61,082.3 | 774.9 -   |                 | 61,857.2 |  |
| 2003 | 42,345.7      | 17,272.7    | 1,733.0 | 374.2   | 1,676.5          | 0.0   | 3,783.7   | 248.1   | 63,650.3 | 284.0 -   |                 | 63,934.3 |  |
| 2004 | 42,538.6      | 18,936.3    | 1,977.2 | 669.6   | 1,692.5          | 0.0   | 4,339.3   | 254.3   | 66,068.6 | 618.6 -   |                 | 66,687.2 |  |
| 2005 | 43,986.2      | 17,161.6    | 2,371.8 | 813.1   | 1,725.2          | 0.0   | 4,910.1   | 255.9   | 66,313.8 | 686.1 -   |                 | 66,999.9 |  |
| 2006 | 44,531.4      | 19,449.2    | 1,966.4 | 921.4   | 1,855.2          | 0.0   | 4,742.9   | 246.9   | 68,970.4 | 1,214.0 - |                 | 70,184.4 |  |
| 2007 | 44,278.4      | 19,804.6    | 2,113.0 | 1,430.3 | 1,870.4          | 0.0   | 5,413.7   | 237.9   | 69,734.6 | 695.6 -   |                 | 70,430.2 |  |
| 2008 | 42,418.7      | 21,036.0    | 2,149.9 | 1,472.9 | 1,917.4          | 0.0   | 5,540.2   | 111.5   | 69,106.4 | 1,876.6 - |                 | 70,983.0 |  |
| 2009 | 41,230.7      | 22,689.8    | 1,695.3 | 1,557.9 | 1,861.5          | 0.0   | 5,114.7   | 227.0   | 69,262.2 | 1,666.7 - |                 | 70,928.9 |  |
| 2010 | 41,120.2      | 24,058.4    | 1,620.0 | 1,628.6 | 1,908.8          | 0.0   | 5,157.4   | 250.3   | 70,586.3 | 1,901.3 - |                 | 72,487.6 |  |
| 2011 | 38,859.4      | 25,106.8    | 2,035.6 | 2,419.1 | 1,972.2          | 0.0   | 6,426.9   | 321.3   | 70,714.4 | 3,760.5 - |                 | 74,474.9 |  |
| 2012 | 38,272.0      | 27,238.5    | 2,318.7 | 2,640.5 | 2,089.1          | 0.0   | 7,048.3   | 359.5   | 72,918.3 | 3,858.4 - |                 | 76,776.7 |  |
| 2013 | 39,186.4      | 29,028.3    | 2,027.8 | 3,107.4 | 2,250.1          | 0.0   | 7,385.3   | 404.7   | 76,004.7 | 2,678.5 - |                 | 78,683.2 |  |
| 2014 | 44,442.0      | 28,136.2    | 1,861.1 | 3,471.3 | 2,065.2          | 0.0   | 7,397.6   | 372.6   | 80,348.4 | 1,839.3 - |                 | 82,187.6 |  |
| 2015 | 41,378.1      | 32,215.4    | 1,745.0 | 3,815.6 | 2,148.5          | 0.0   | 7,709.2   | 318.1   | 81,620.8 | 782.6 -   |                 | 82,403.4 |  |
| 2016 | 42,226.9      | 33,183.7    | 1,773.0 | 4,407.5 | 2,201.2          | 0.0   | 8,381.8   | 339.7   | 84,132.0 |           | 235.2           | 83,896.8 |  |
| 2017 | 39,323.7      | 36,821.8    | 1,937.8 | 4,406.7 | 2,062.0          | 0.1   | 8,406.6   | 269.4   | 84,821.5 | 347.3 -   |                 | 85,168.8 |  |
| 2018 | 30,692.5      | 44,390.9    | 1,893.9 | 4,196.6 | 2,033.4          | 22.4  | 8,146.3   | 386.0   | 83,615.7 | 2,684.0 - |                 | 86,299.7 |  |
| 2019 | 29,499.7      | 46,810.8    | 2,026.7 | 4,180.4 | 2,049.8          | 20.3  | 8,277.2   | 303.3   | 84,891.1 | 1,543.5 - |                 | 86,434.6 |  |

Figures are in GWh

| Year | Cogeneration |                 |
|------|--------------|-----------------|
|      | Total Cogen  | Total GAS Cogen |
| 1985 |              |                 |
| 1986 |              |                 |
| 1987 |              |                 |
| 1988 |              |                 |
| 1989 |              |                 |
| 1990 |              |                 |
| 1991 |              |                 |
| 1992 |              |                 |
| 1993 |              |                 |
| 1994 |              |                 |
| 1995 |              |                 |
| 1996 |              |                 |
| 1997 |              |                 |
| 1998 |              |                 |
| 1999 |              |                 |
| 2000 | 8,678.7      | 7,326.8         |
| 2001 | 12,636.9     | 11,066.1        |
| 2002 | 14,178.4     | 12,506.7        |
| 2003 | 16,879.6     | 15,235.2        |
| 2004 | 17,944.8     | 16,280.8        |
| 2005 | 17,477.0     | 15,804.0        |
| 2006 | 18,381.1     | 16,671.4        |
| 2007 | 19,540.9     | 17,842.0        |
| 2008 | 20,190.7     | 18,581.0        |
| 2009 | 21,674.9     | 19,964.6        |
| 2010 | 22,561.5     | 20,817.9        |
| 2011 | 23,123.3     | 21,244.8        |
| 2012 | 25,077.7     | 23,034.8        |
| 2013 | 27,023.4     | 24,770.1        |
| 2014 | 27,081.0     | 25,005.9        |
| 2015 | 27,719.7     | 25,636.9        |
| 2016 | 27,735.1     | 25,562.4        |
| 2017 | 29,727.5     | 27,656.1        |
| 2018 | 34,323.6     | 32,168.2        |
| 2019 | 35,302.6     | 33,179.6        |

\* Others include fuel oil, waste heat

Excludes Isolated Plants

Note: All data from 2010 and earlier was collected and compiled by the ERCB and its predecessors.