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Style Definition: para: Line spacing: Double

Summary

From these regulations and plans for about electrical energy set by BC government and the utility commissionelectrical energy set by BC government and the utility commission, we can see that BC Hydro has find out, there are several goals BC Hydro has to achieve. Among them, the two most important two are: (1) by 2020, it has to acquire 50 percent of its incremental resource needs through conservation; and; (2) by 2016, it has to achieve electricity self-sufficiency, which means no more imports from other provinces or the United States.other country, for example the States. When setting its strategies for electricity supply, BC Hydro has to consider take these two deadlines into consideration. Chapter 4 The nNext chapter will describe BC Hydro's strategies for achieving these goalsdiscuss more about its strategies.

BC Hydro's Strategies for Electricity

This chapter section analyzes the electricity gap facing BC Hydro and outlines what BC Hydro is going to do to fill the gap and achieve the goals set by the new BC Energy Plan. As well, the chapter presents The remainder of this section discusses three strategies for achieving it to achieve these goals and by comparing it with another its two

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~~alternative strategies strengthens the benefits of the strategy of 'conserve more'.~~ makes the case that maximizing conservation efforts will be the most attractive approach.

BC Hydro

BC Hh~~h~~ydro ~~is the third largest electric utility in Canada and it~~ is ~~also~~ a crown corporation wholly owned by the Province of BC. BC Hh~~h~~ydro is accountable to the government through the Minister of Energy, Mines and Petroleum Resources. It ~~BC Hydro~~ is regulated by ~~under regulation of~~ the BCUC and reports to a board of directors appointed by the Lieutenant Governor in Council (BC Hydro, 2010).

BC Hh~~h~~ydro's main business activities are generation and distribution of electricity, which includes upgrading existing facilities and requireds~~d~~ electricity purchases~~es~~~~ing~~ and selling functions. It operates 30 hydroelectric facilities and three natural gas-fuelled thermal power plants (BC Hydro, 2010). Each year BC Hydro generates between 43,000 and 54,000 gigawatt hours (GWh) of electricity (BC Hydro, 2010). It~~And it~~ serves over 94% of BC's population (BC Hydro, 2010).

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Supply and Demand for Electricity of BC Hydro

BC Hydro expects electricity demand to grow by approximately 20 to 40 percent over the next 20 years, which ~~continues to~~ exceeds BC Hydro's committed and existing resource capabilities (BC Hydro, 2010). (See figure 4~~3~~.1- BC Hydro's supply~~ies~~ and demand outlook). Special Direction 10, ~~(~~of the BC energy plan,~~)~~ to BCUC requires BC Hydro to achieve electricity self-sufficiency by 2016 and each year thereafter by generating electricity within BC (Ministry of Energy, Mines and Petroleum Resources, 2007). As a result, the drop in supply shown in the graph below~~supply drop~~ (Figure 4.1) reflects the removal of a -2,500 GWH allowance for purchasing from other provinces or countries in 2016 (BC Hydro, 2010). ~~So~~Therefore, from ~~since~~ 2016 BC Hydro will face an increasing ~~electricity~~ demand and supply gap. More specifically, w~~W~~ithout the Long Term Acquisition Plan (LTAP)~~'s~~ action items, BC Hydro projects an energy shortage of approximately 22,000 GWh per year and a capacity shortage of 3,000 megawatts (MW) by 2028 (BC Hydro, 2010).