

DID YOU KNOW THAT?

- ❖ The Atomic bomb that was dropped on Hiroshima is approximately the same amount of energy that it takes to run Alberta for about 2 hours?
- ❖ The largest bomb ever detonated (The USSR made Tsar) would run Alberta for about 300 days?
- ❖ The average Calgary household would require approximately 475 Square feet of Solar modules to “Zero” out over the year? For meeting winter time needs, it would require approximately 825 square feet.
- ❖ Alberta would require an area of about 1000 square miles of solar collectors to “Zero” out over the year. For meeting Winter time need, it would require approximately 1750 Square miles? (the area required is calculated by using an angle of 7 degrees for determining the distance between solar module rows to prevent shadowing in winter). This would be about 89% of Banff National Park or about .68% of the Province of Alberta.
- ❖ The electric grid cannot store electricity for even one second? The power needs to be produced the instant that it is being used.
- ❖ Solar energy primarily reduces the amount of natural gas burned to produce electricity, it does not reduce the amount of coal generation, since the coal generation supplies the base load and cannot be varied quick enough to offset Solar production.
- ❖ “Net Zero” homes that incorporate electric heat or electric hot water tanks rather than using natural gas for heat and domestic hot water actually increase the amount of conventional coal and natural gas generation required and increases the required size of the electrical distribution grid? This is, because in Alberta, the highest demand on the electrical grid is in the Winter after supper. The sun never shines in Alberta at that time, therefore, conventional sources are needed to supply and transmit the energy during this time period.