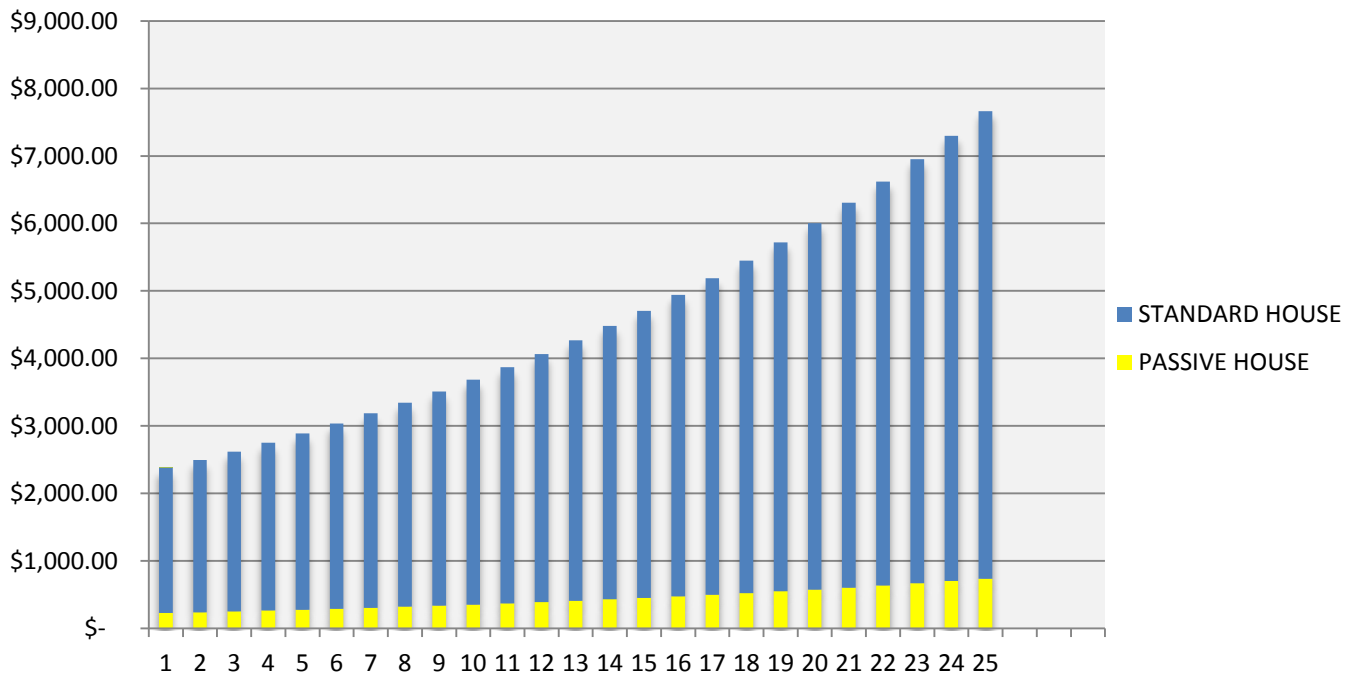


Hydro cost comparison of standard minimum code-compliant house vs. PassivHaus [passive house].

One of the long term benefits of building to PassivHaus standard will be the optimal indoor comfort levels and constant warmth throughout the house all year long. To go along with a cozy feeling house, and focus on environmental stewardship, another great benefit to building to PassivHaus standards will be the savings in energy use and energy costs. As the energy costs keep increasing, a lowered energy bill will help ensure that costs are attainable throughout the future of the homeowners of the PassivHaus.

Below is a chart comparing calculated energy costs of two identical houses of 2400 sq.ft. The standard house employs current standard building practices and the PassivHaus using the stringent requirements as per the PassivHaus requirement. For this exercise, the heating works out of 27,317 kWhs/year for the standard house and 3,344 kWhs/year for the Passive house.

The cost of energy is based on current BC Hydro costs which are:  
 6.67 cents per kWh for the first 1350 kWhs, and 9.62 cents for additional kWhs.  
 The chart below shows the cost of energy per year for the Standard House and the Passive House.  
 An increase in energy cost of 5% per year is calculated.



Over 25 year period, the cost of electricity in a standard house would total \$102,517. The total in a PassivHaus would be \$10,881. This means that in 25 years, \$91,636 could be saved (approx. 90% savings).

Of course there are many variables, and the cost and consumption of energy can vary greatly (depending on use, appliances, number of televisions and other equipment in the house). Please consult us and we can discuss how to improve the comfort and energy savings in your home.