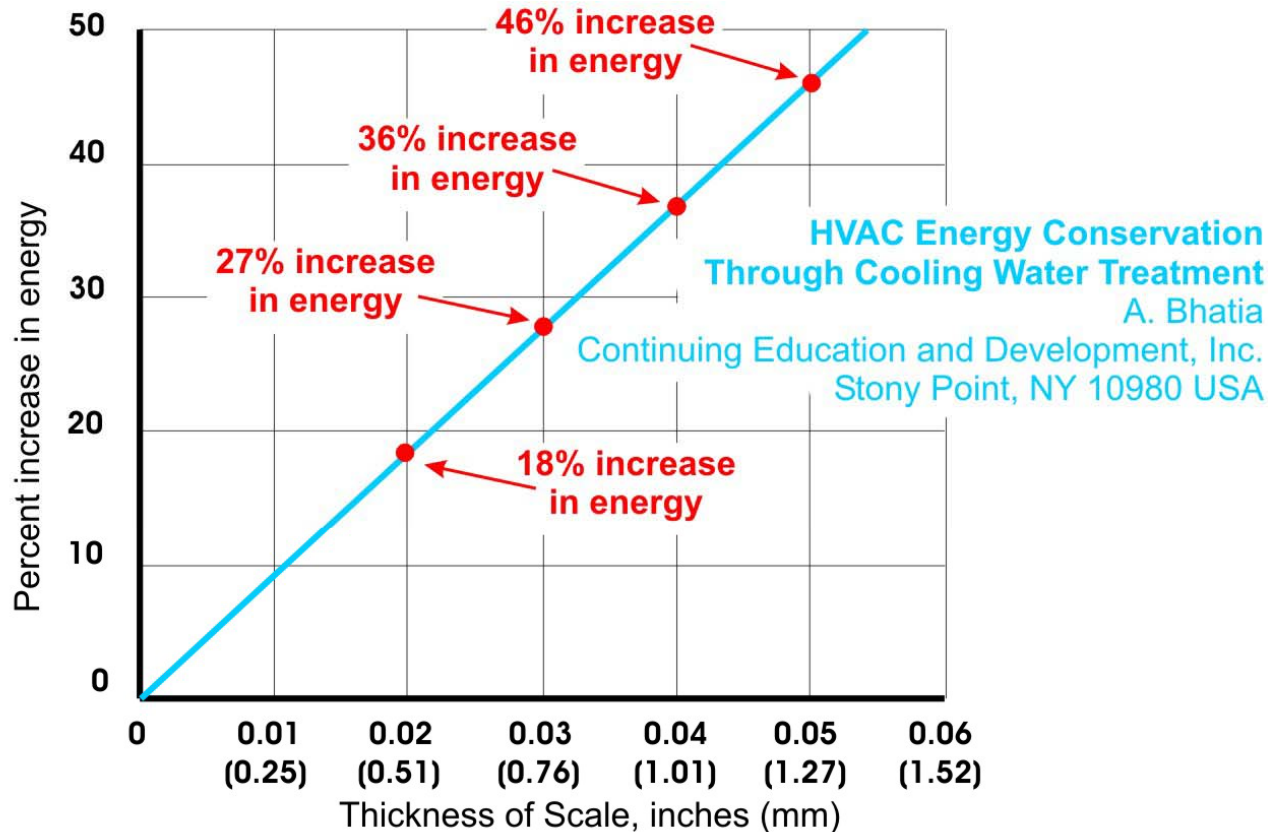


Scale thickness results in an increase in energy usage.

(Biofilm causes much higher energy usage increases than scale.)



Effect of Condenser Tube Scale (CaCO_3) on Energy Consumption

The graph shows that a calcium carbonate scale thickness of 0.02 inches (0.5 mm) represents an increase of 18% in electrical energy compared to the same unit free of scale. A thickness of 0.05 inches (1.27mm) increases electrical energy usage by 46%.

Biofilm/slime can cause an increase in energy usage of up to 4 times that of calcium carbonate for the same thickness of buildup.