CWSAT - Chilled Water System Analysis Tool

DOC software tool.
Useful to estimate operating cost of Chilled Water System if Loading Information for chillers is available.

(What Fraction of chiller capacity is needed - monthly averages)

* Savings potential if chiller runs part loaded much of time.

- Use VSD to run chiller compressor

$$\frac{W_{\text{RPM2}}}{W_{\text{RPM1}}} = \left(\frac{\text{RPM2}}{\text{RPM1}}\right)^3$$

$$\frac{Q_2}{Q_1} = \frac{\text{RPM2}}{\text{RPM1}}$$

$$\frac{H_2}{H_0} = \left(\frac{\text{RPM2}}{\text{RPM1}}\right)^2$$

VSD motor controls - capable to about 20%-25% Full Speed