



RETROFIT OF SEA WATER HEAT REJECTION SYSTEM USING COOLING TOWERS AT LIBRARY ROOF FOR CENTRAL A/C SYSTEM



Owing to the global warming issue, seawater temperature keeps increasing that reduces the overall energy efficiency of the existing seawater cooled chillers. In addition, under part load condition (when 1 or 2 chillers in operation), the overall chiller plant efficiency would drop because significant amount of pump power was still required to draw the seawater and to transfer it from seawater pump house to the central chiller plant on LG5 with total travel distance over 600m. A new set of fresh water cooling tower is proposed to serve the part load condition. The estimated annual energy saving of this improvement work is about 1.8 million kWh.

