Product Design of Web-based Consulting System for Real-time Optimization of Compressor Systems

남동우, 이인범, 한종훈[1,*]
포항공과대학교; [1]서울대학교
(chhan@snu.ac.kr*)

Real-time optimization is becoming a hot issue to operate whole plant in the optimized condition because it can increase profitability with low expenses compared to off-line optimization. However, real-time optimization is effective technology, many companies have to pay many expenditures and much time to improve their unit performance. The reason may be that a major percentage of chemical facilities were built in the remote coast and rural areas, whereas most of the experts who can solve the chmical process problems are distributed in the big city. Thus, expert and company have to cosume much time to gather information such as process operating constraints and to review data analysis results make the optimization model. This reearch reports a development effort in applying web-based consulting system for real-time optimization of compressor systems to save energy. This system made by product design methodology helps to overcome the limitations of previous real-time optimization as well as ensure high quality of RTO consulting for those companies located in rural areas having specialized needs.