

INTELLIGENT PROCESS INDUSTRY

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ABSTRACT

Global greenhouse gas emissions and limited fossil fuel supplies have led researchers and industry to pursue measures to increase energy efficiency and utilize renewable power sources. Also, the manufacturing activities represent around one-third of the world's total final energy consumption. In the same time, as the global population continues to expand and living standards continue to rise, demand for industrial goods is set to grow further. To enable competitive industrial production, designing and operating efficient and sustainable production systems is crucial. Among the numerous challenges around climate change that industry must tackle is intelligent process industry such as industrial energy efficiency or green industrial systems.