

ODDISEY

Microsoft Visual Studio (VS2016) was used to develop an optimizer naming as “ODDISEY” with a user-friendly interface. This optimizer have different well-proven optimization algorithms especially for the design optimization of highly non-linear processes such as natural gas liquefaction plants. PSDC LNG group has implemented this optimizer to improve the energy efficiency of all existing commercial scale LNG processes. These processes (SMR, DMR, C3MR, and KSMR etc.) were modeled using commercial simulators such Aspen Hysys[®] and then linked with ODDISEY optimizer by considering overall energy as an objective function. Using ODDISEY, energy efficiency can be improved significantly. This ODDISEY optimizer also having the flexibility for the upper and lower range with step interval and sequence of decision variables which can be manipulated according to the requirement.

EXPERIMENTAL

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