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(71)**Name of Applicant :**
1)N. Shankar Ganesh
Address of Applicant :Department of Mechanical Engineering, Kingston Engineering College, Chittoor Main Road, Vellore Tamil Nadu India
(72)**Name of Inventor :**
1)N. Shankar Ganesh
2)S. Mahendiran
3)D. Manivannan
4)N. Keerthivarman

(57) Abstract :
The present invention related to combined cycle based power generation system and a method of using thermal and solar energy in the stream of multicomponent and organic fluids. According to the main aspect of the invention, combined power generation system comprises of multicomponent fluid Kalina cycle and organic fluid organic Rankine cycle. The combined power generation system comprises of waste heat recovery, plurality of heat exchangers, a separator, plurality of turbines and generators, plurality of pumps, mixer, wherein, the heating arrangement used in the combined cycle power generation system is waste heat recovery and or plurality of solar panels.

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