

Cutting down energy consumption through a higher heat integration of the oil processing plants

V. IACOB^a, C. SIMION^a, R. ARON^a, C.D. POPESCU^a and I. IVĂNESCU^b

a - S.N.P. PETROM, INCERP Cercetare Ploiești

b - S.N.P. PETROM, București

Abstract The paper describes a new concept of designing technological flows with a view to increase the plant heat integration and cut down energy and utility consumption by means of an intermediary energy carrier. Such a heat integration set-up, using water as an energy carrier may remove the disadvantages of the classical design by higher plant flexibility, lower contamination risks, operating ease, lower hot and cold utility consumption. Thus, application of the integrated regime of the plants under consideration becomes attractive and it may be even extended to other refinery plants.

Key words: savings energy, integration.
