

SPENT SHALE IS A BASE FOR INDUSTRIES IN JORDAN

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Although oil shale can be converted to shale oil by many different processes, both in situ and ex situ. However little attention and focus on the spent shale. This paper presents an approach on the use of oil shale in Jordan with particular reference to use of spent shale in the production of Sodium Carbonate, Ammonium Sulfate, Potassium Sulfate and Sulfuric Acid as well as many other uses in the cement and construction industries. In addition to that, the possibility of using inexpensive solid acid catalysts for oil shale processing may be synthesized from spent oil shale.

Apart from producing shale oil and, such uses will be considered as an added value in the overall assessment and evaluation of oil shale industry. A novel approach to develop suitable equipment for the production of oil from oil shale, but with different conditions to control the temperature of the residue of retorted oil shale that suit the oil shale resources in Jordan that require no use of water and no harm to the environment. The focus on the production of only shale oil is a misleading indicator on the oil shale industry if benefits from utilizing the spent shale were not taken into consideration.

It is concluded that a schematic layout is presented where the major chemical industries can be in general but quantifying the inputs and the outputs may be a subject for further research.