The Jordanian Oil Shale - The Pending Energy Revolution
الصخر الزيتي الأردني – ثورة الطاقة الوشيكة

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We, Al-Qamer for Energy and Infrastructure, a Jordanian company, which is active in the field of oil shale based energy since 2012. Al-Qamer finished the Exploration and Conceptual Engineering Work Program, performed the needed studies and the field investigation works for a block some 59.32 sq. Km in area.
Due to the revolution in technologies, the company has in collaboration with an expert inventor, introduced a new technology called "Polycrack", It's world's first patented heterogeneous catalytic process for reforming of any hydrocarbon such as Oil Shale, Plastic, Organic, Coal, Mixed waste, Sludge into free Sulphur oil & gases such as Gasoline, Light Diesel Oil and the invention will be used first time in Jordan & middle east through Al-Qamer company "In House Technology" and which will change hydrocarbon face in the world. The original invention is in operation in some countries and the patent is registered in USA and South Africa.
In addition attracting investors and financiers of the oil shale project is an important necessity and selecting thebest technology which produces final products ready to ship to market. Al Qamer Company has fulfilled all the requirements and has embarked on a unique and appropriate technology to yield final ready- for- sale petroleum derivatives. It further has prepared the economic and environmental feasibility of the project.

We produced sulfur free oil from our tests in India which equals to Brent oil specification, and the technology will produce three other products in addition to oil such as LPG Gas, Water, and Residue which we can use in construction and medical sector after extracting precious trace elements. Also, we can produce important petrochemicals from oil to be added value for our project.

We are hopeful to be the first party to produce petroleum derivatives from Jordanian oil shale commercially. We intend to import a plant utilizing the established technology, Polycrack, in Jordan with an initial capacity of 50 tons per day to have it scaled up with time to a maximum capacity of 96,000 tons perday. The plant is modular and can easily be expanded with time. At its maximum capacity the plant can produce about half of the 2018 Jordan's need for oil derivatives. After the imported Initial Pilot, Al-Qamer hopes to initiate local manufacturing of the same for expansion. This will translate into job creation in the manufacturing sector and will create ability for export.
Our plan for utilizing Polycrack technology is based on field tests of oil shale sent to India from our block. Ten full-fledged tests were conducted in Vasai – Mumbai at their modified pilot

Polycrack technology plant. The results have been reassuring of good quality oil derivatives without the need for refineries, and the cost of production will be within very reasonable bounds. The environmental assessment is very positive.

Al-Qamer Oil shale project in Jordan will deliver a wide range of socio-economic benefits for the Kingdom, most importantly helping to reduce Jordan's reliance on costly fuel imports and provide the country with increased energy independence and security. The benefits for Jordan can be summarized as follows: **Creating job opportunities for Jordanian youth**, **Increased energy independence and security, Inward investment:** Al-Qamer oil shale project will result in inward investment of approximately **JD 5 billion** into the Jordanian economy over the time. , **Increasing national wealth**. **Al-Qamer will do local manufacturing of the processing plants which means an added value to local industry &local Jobs. Al-Qamer will support the social community to open health center for villagers and small schools.** Al-Qamer project can produce **half of Jordan's 2008 annual oil needs**, and is capable to produce more through modular expansion. The full scale project will help in the recovery of the Jordanian economy and the reduction of the annual budget deficit byselling it to the local market at competing prices generating petroleum and royalty taxes.

The latest scientific studies prove that Jordan is the third country in the world in terms of reserves, which is estimated around 100 billion tons, Jordan's unique geology shows an attractive diversity in oil shale areas, which will make the oil shale projects more economically viable despite the low oil prices thereby encouraging its economic exploitation. Thus, the values of these rocks contribute to the adjustment of the internal rate of return for exploitation of oil shale layers.

Also the comrades of oil shale of various concentrations suitable for domestic manufacture and export as raw materials, which can be exploited and utilized. The remaining ash has an amazing industrial value for using in building materials, in addition to many by-products, heavy metals, precious metals, petrochemical and their high ratios, and economically feasible.

At the moment, we no longer think only seriously about oil production and linking it to current oil prices, But to exploit our wealth in any way to strengthen the domestic energy sector, and our dependence on ourselves to reduce the proportion of imported energy from abroad. Thus, the choice of such projects is a real treasure for those who think of success investing in a global economical and marketing way.