



**8th Biennial International Conference
& Exposition on Petroleum Geophysics**



P-22

Alternate Energy Sources: for alternate way of life.

Dr. D M Kale

Summary

The expanding energy consumption is inbuilt requirement of the industrial society. The phenomenal economical growth of last century was made possible by growing supply of cheap and easy oil, literally hidden treasure that we stumbled upon! The end of the expansion is in sight as the new discoveries peaked in 60's; the production now far exceeds the total new finds and the known reserves are depleting at increasingly higher rates.

The task of just replacing the loss of available energy due to depletion is daunting in energy terms. If the alternative source also demands new and different infrastructure, then it is simply outside the realm of possibilities.

Here is an attempt to examine what options we have and can any combination of alternatives help the industrial civilization to continue in the current trajectory. We examine the available options on the essential criterion the right energy alternatives need to satisfy.

If we wisely change the trajectory of limitless growth of population and per capita consumption, there is a fighting chance that alternate energy sources can help industrial society change smoothly into new sustainable trajectory!