



Energy Return on Energy Investment

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Message from the Guest Editor

Various studies have been conducted over the past half-century on the qualitative assessment of the degree to which the use of our energy resources can actually contribute to society. The estimation of EROI can provide useful insight for examining the advantages and disadvantages of different fuels in the energy production process, and is constantly being improved in terms of the protocol for the calculation and the system boundary. On the other hand, there are still many challenges, such as data uncertainty, in EROI estimation. Many EROI studies have focused on oil and gas resources, which are the most important to every aspect of our society, and have concluded that the EROI for oil and gas has declined over the past one to two decades. Although in recent years, much attention has been paid to EROI estimation for renewable energy resources, the future EROI trends for renewable energy resources are very uncertain. Several studies imply that such a declining EROI may have a large impact on the world economy and quality of life.





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