

Human Uses of Energy Tutorial Questions and Answers

- 1 The US Geological Survey estimate of cumulative world production of natural gas was 1.72 Q up to the end of 1992. They also estimated the total resource to be 11.4 Q. In a previous estimate in 1985 the USGS gave the cumulative production to be 1.15. If gas, like oil, is explored for and priced such that the known reserves are always around 10 years ahead of current levels of production, estimate when production is likely to reach its peak.

[The Verhulst equation is $\frac{dr}{dt} = Cr(R - r)$, where r is the cumulative reserve and R the total resource]