Appendix 20: The Energy Equivalence Principle in Fossil Fuel Depletion

Our current business concept (1) is to deplete a resource and make \$ profits from the sale of the resource. This is not sustainable as we are running down our resource asset account and the profits are consumed. We must invest part of our profits in renewable energy capacities which replace the depleted resource on an annual basis (2).

Profit calculations have to be done in both \$ AND physical energy accounts. In fact, energy accounts are more important. If the balance is not positive on the energy account, the process of making \$ profits will come to an end sooner or later. If we do not introduce an energy replacement system as described below under (2), our economy one day will be thrown back to the slow process of solar breeding.



Example: Gas export of 5000 PJ over 20 years (250 PJ pa)