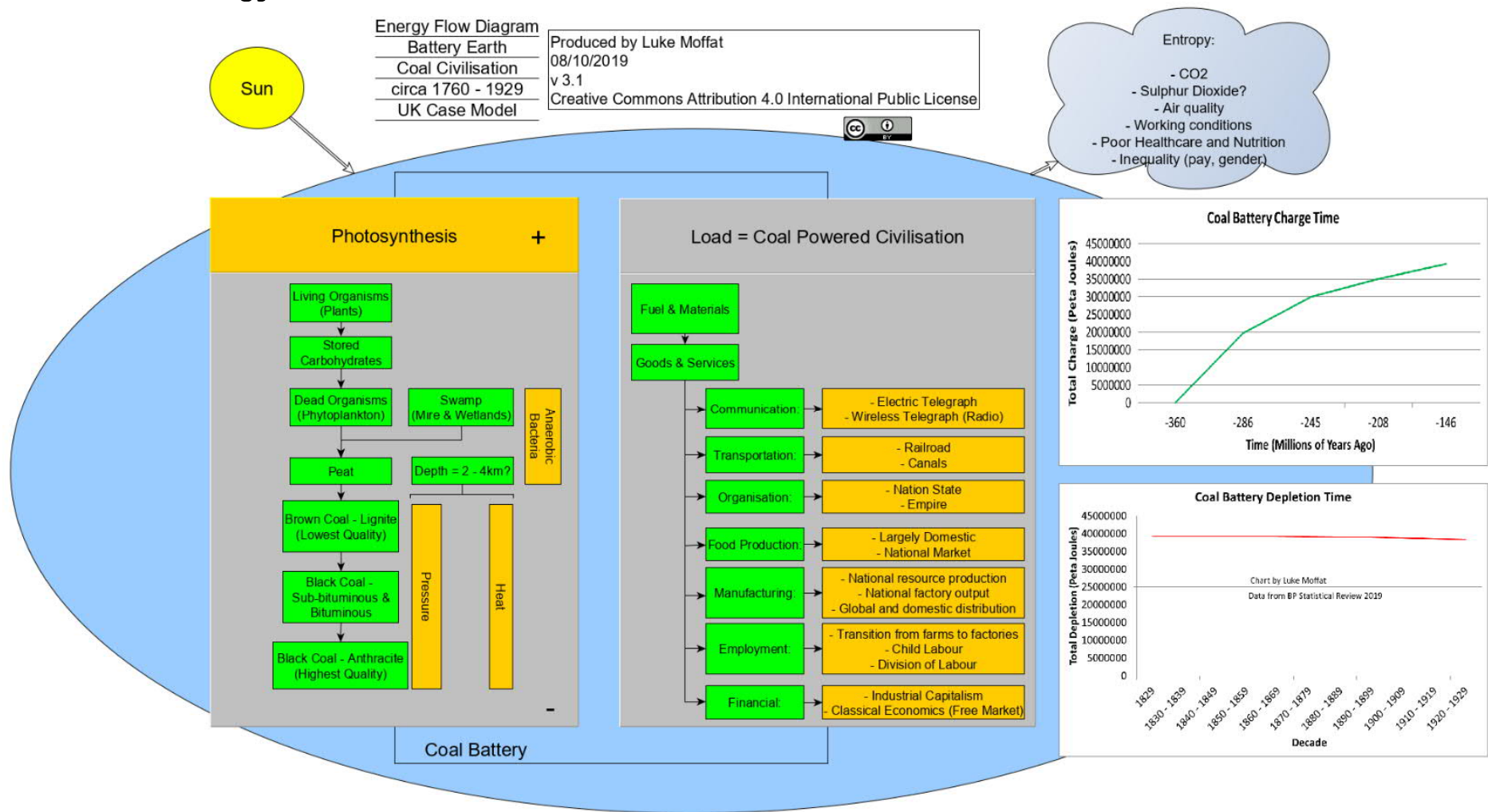


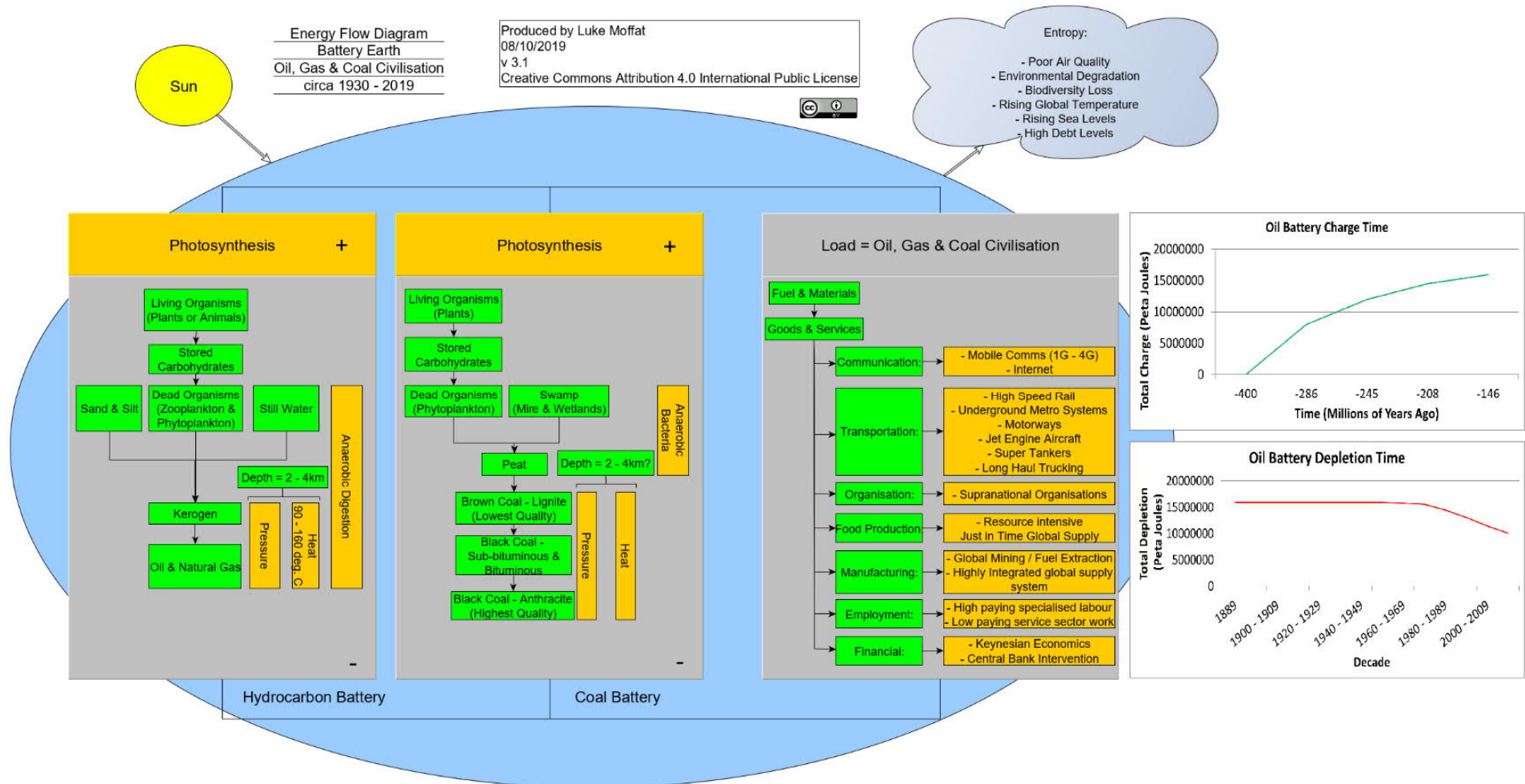
Battery Earth Concept

- The Earth serves as a battery, charging slowly over time and dissipating that energy when a particular civilisation unlocks it.
- Civilisations go through configuration states largely dependent upon the type of energy available to them.



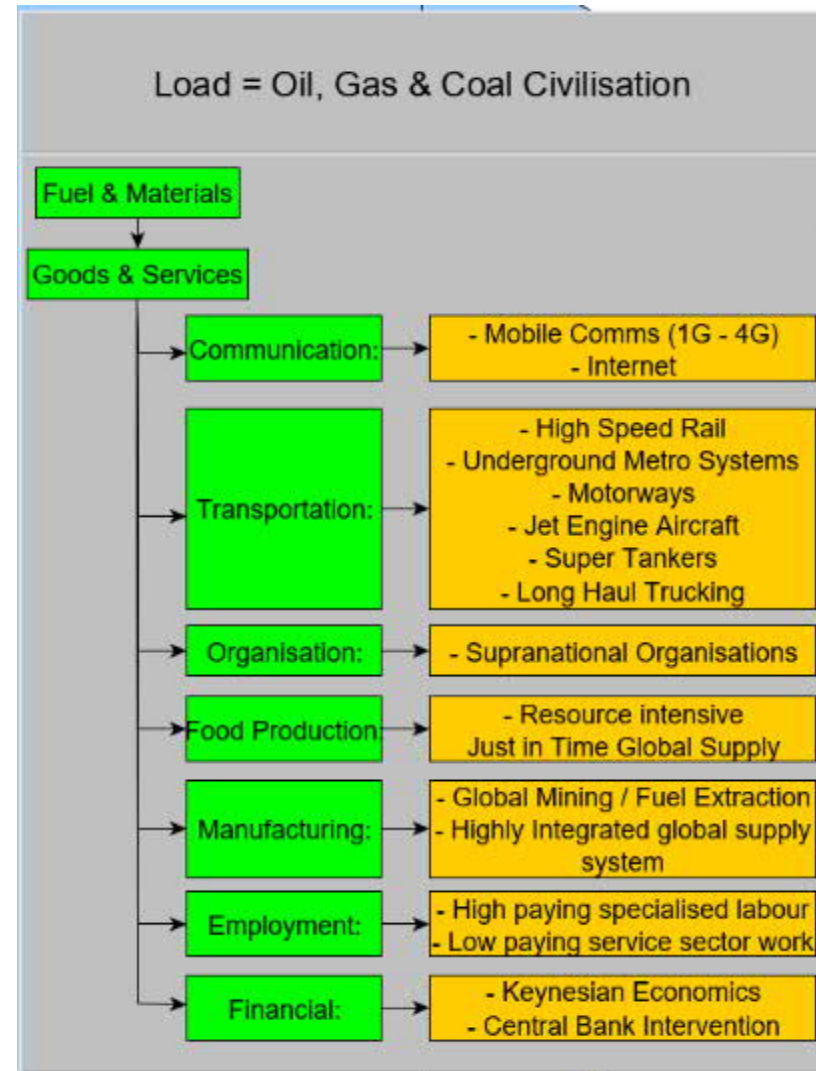
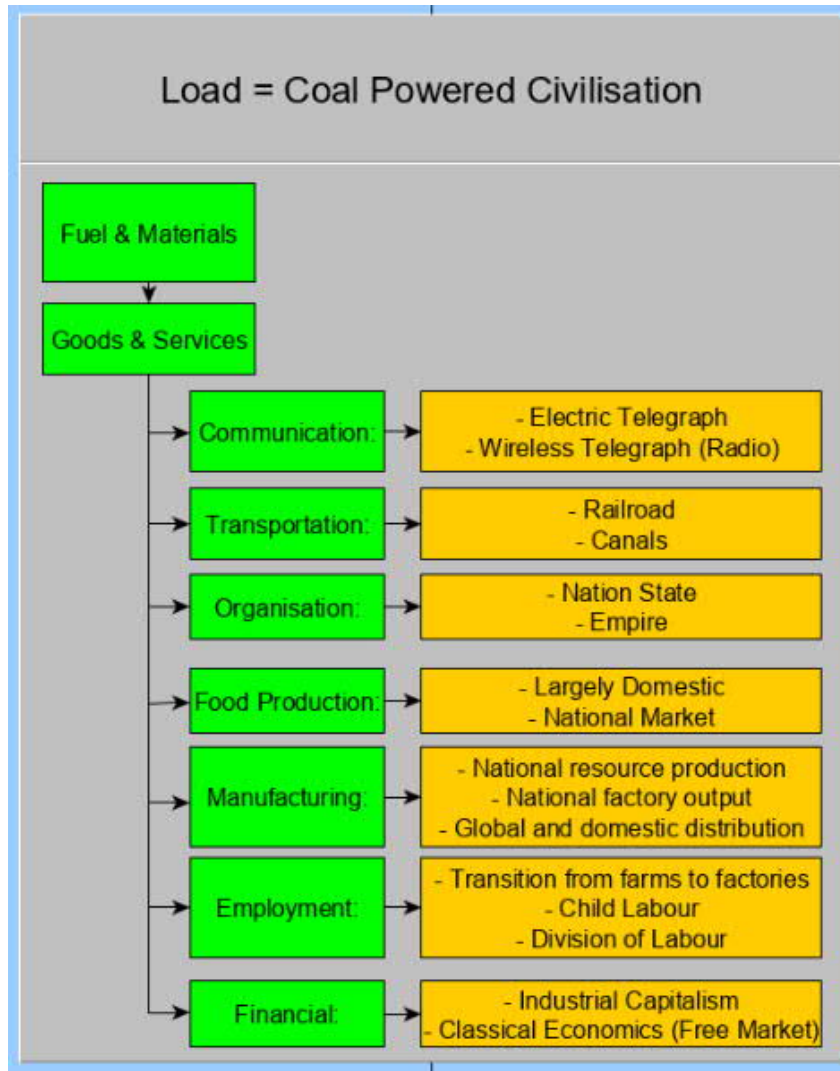
Battery Earth Concept

- Adding Hydrocarbon Battery increased the functionality of civilisation
- It also accelerated entropy (e.g. increased pollution, increased loss of biodiversity)



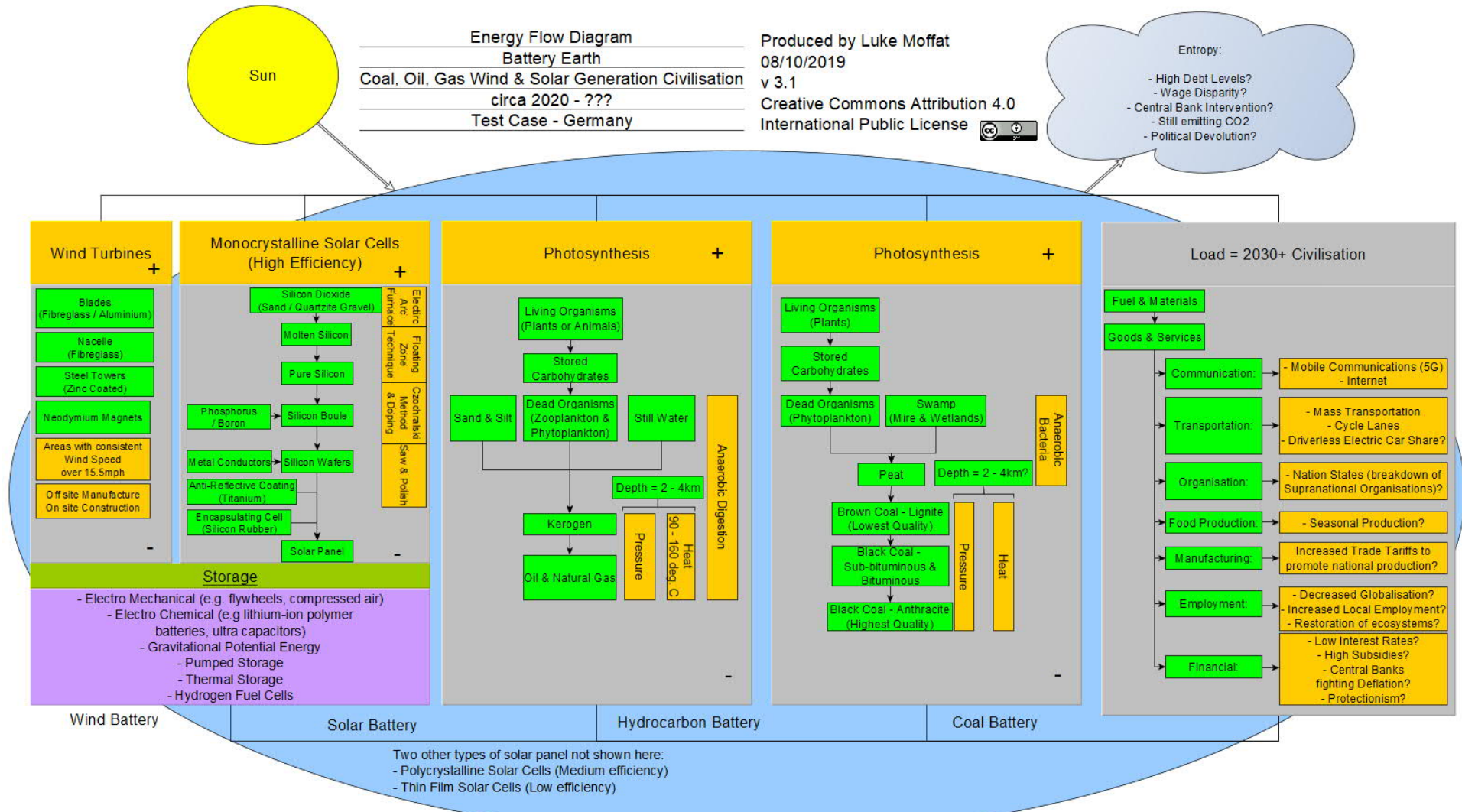
Battery Earth Concept

- Battery Type largely determines the functionality of the device



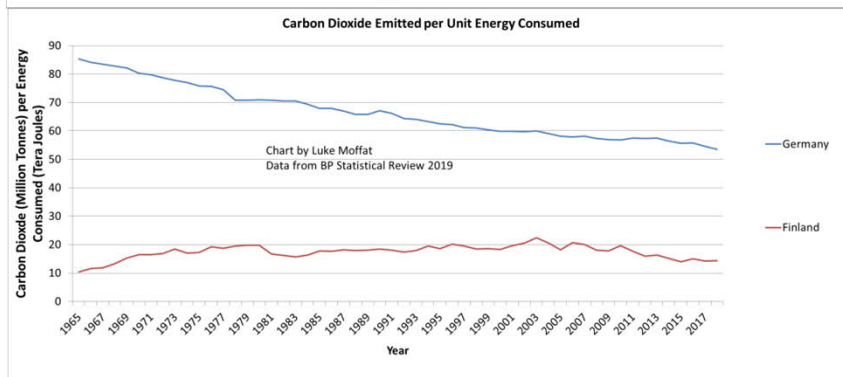
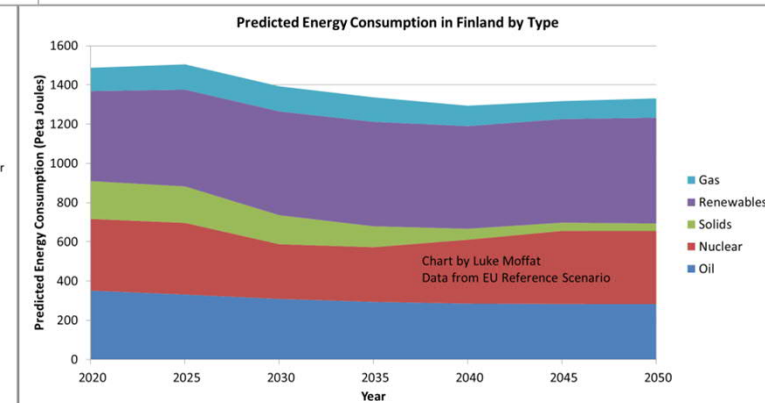
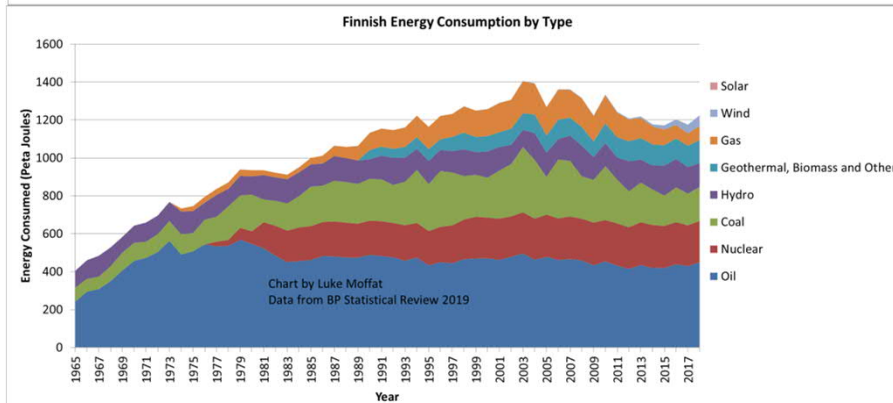
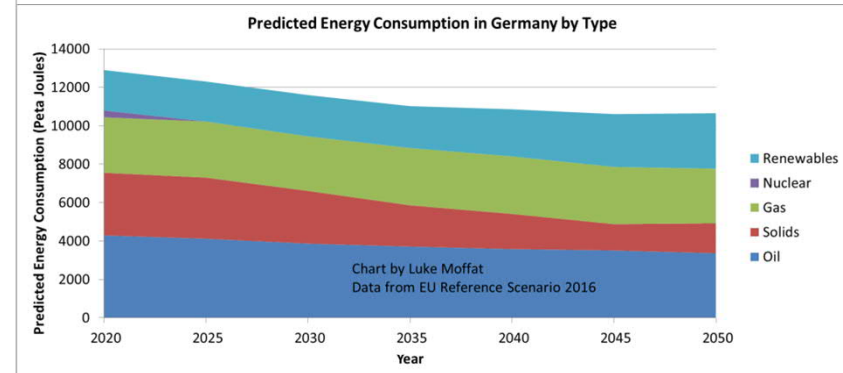
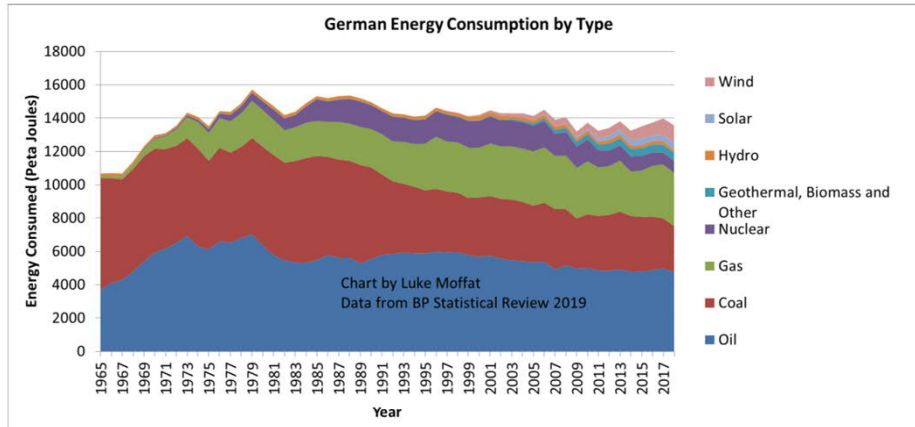
Battery Earth Concept

- Adding Wind & Solar, the German Battery
- What kind of functionality can we expect? Will it be a continuation of the first 10 years of transition?



Battery Earth Concept

- Are we choosing the right battery? Germany v Finland

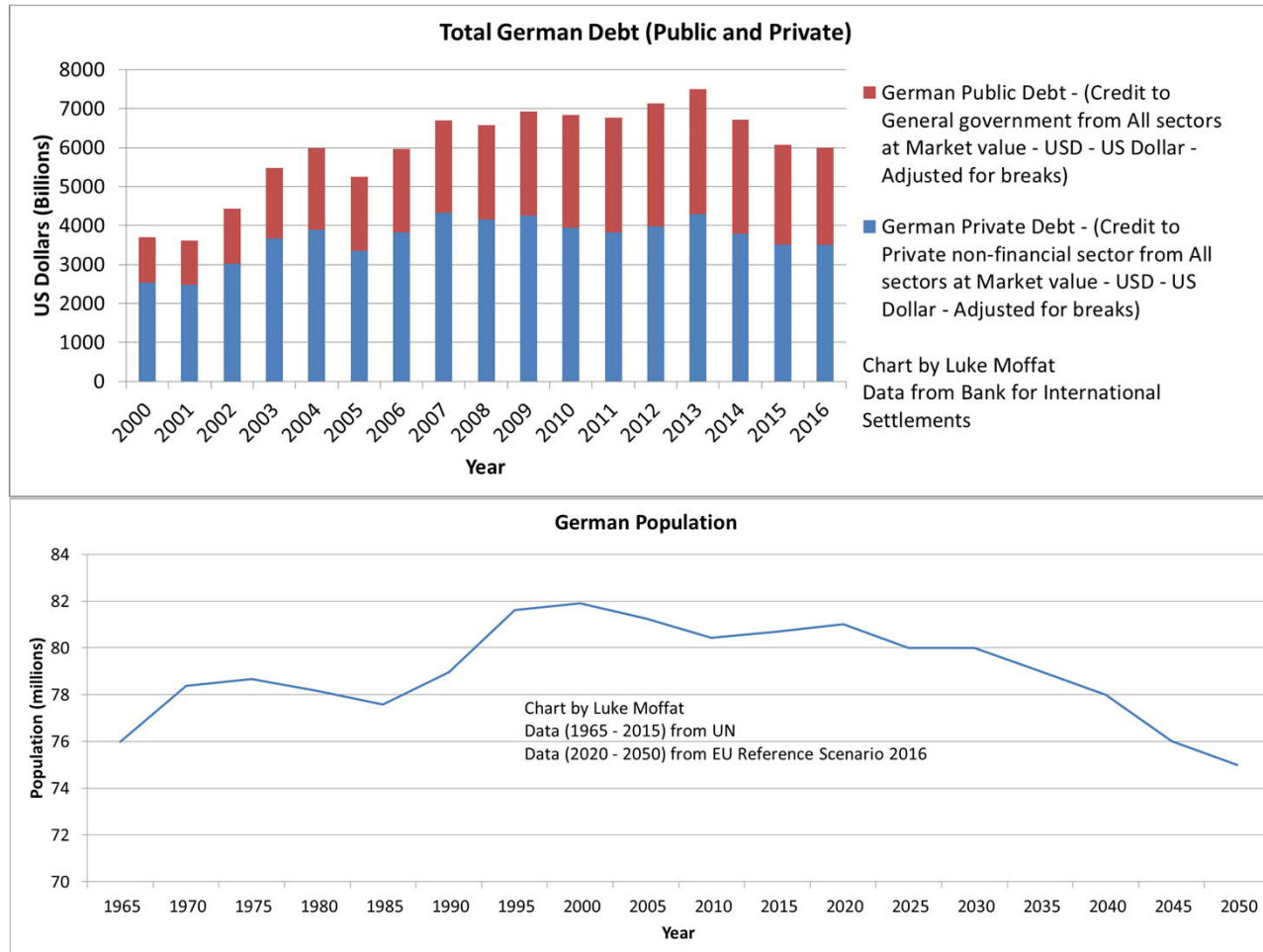


On current performance the German battery emits 3.5 times more carbon dioxide per unit of energy consumed when compared to the Finnish battery



Battery Earth Concept

- What are the risks & constraints as we swap batteries?



- Financial Model appears to be changing, higher ratio of public debt to private debt, plus debts keep growing
- Demographics are changing, population reduction
- Cascade of risk, underfunded pensions, people work longer, less jobs available for new entrants (e.g. the young)
- Do we change the nature of work? Young people enter a regenerative economy? E.g. ecosystem management?