

# Technological Innovation Process & Green Energy

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As the demand for and dependency on energy is growing continuously, in conjunction with the failure of some alternative green energy programs, we feel the critical need to consider deploying more desirable solutions such as Space Solar Power (SSP). The new solution should be superior and potentially carry numerous attractive features such as durability, continuity, efficiency, low emission, and low maintenance requirements for a smooth operation.

From an innovation point of view, we expand our view to see how the global techno-political changes of the previous decades have affected many nations way of life. The innovation process and our hope for the third technological revolution are no exceptions. Here, we take the *SSP program* as an example and examine the impacts of major global issues upon this superior technology.

This presentation covers the innovation process beginning with the first and second Technological Revolutions and innovation waves to demonstrate the importance of the 'need' in the process. In order to justify a feasible SSP solution we look at various sources of energy: fossil fuel, non-fossil-fuel, renewables, and other alternatives upon figures from many sources including DESERTEC and US EIA to measure our forthcoming challenges and our options for some successful SSP programs.

Then, considering the classic technological requirements of an innovative program such as: complexity, feasibility, viability, control, side effects and de-invention, this presentation ends with a brief list of optimised selective and typical proposals for viable programs based upon our nation's technological and social capabilities.

## REFS:

[1] Classic Open University Course Materials for Innovation

[2] DESERTEC: <http://www.desertec.org/>

[3] US\_EIA: <http://www.eia.gov/forecasts/ieo/world.cfm>

[1] Classic Open University Course Materials for Innovation

[2] Simon-Ehrlich wager - Wikipedia

[3] US\_EIA: <http://www.eia.gov/forecasts/ieo/world.cfm>

[4] <http://en.wikipedia.org/wiki/Desertec>

[5] Solar thermal energy - Wikipedia

[6] Book: Don M. Flournoy, Springer 2012, ISBN: 978-1-4614-1999-0

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