

Strategies for Sustainable Energy

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Homework Assignment #3 Production

assigned: Thursday, May 12, 2011

due: Thursday, May 26, 2011 at the beginning of class

In “Sustainable Energy—without the hot air”, the author presents the conceivable consumption of sustainable energy into 11 categories.

- wind (on-shore, shallow off-shore, deep off-shore)
- solar heating
- solar photovoltaics/PV farms
- biomass
- hydroelectric
- wave
- tide
- geothermal

It adds up to a conceivable 180 kWh per day per person.

Choose any three of these technologies. (You DO NOT have to investigate all technologies.) Locate estimates of the potential capacity of these technologies for the Republic of Korea. Use the latest data you can find. Report the results in units of kWh per day per person. State important assumptions used in the calculation. As always use any reliable source you can find, but you must cite the source in your homework. Do the best you can.