**Applied Economic Exercise**

**For members of** [**www.economicstutor.com.au**](http://www.economicstutor.com.au)

Watch the video clip produced by ‘The Economist’ titled ***Nuclear power: why is it so unpopular?*** at the following link and answer the questions that follow <https://www.youtube.com/watch?v=-sjo1B3j_JM>

1. In terms of global electricity generation, what proportion is made up of nuclear power?

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1. When and where was the first commercial nuclear power station opened?

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1. By the end of the 1960s \_\_\_\_ reactors had been built across \_\_\_\_ countries.
2. Using the analogy of a kettle, explain why nuclear energy is alleged to be more efficient than energy produced from coal or gas power plants.

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1. What damaged the reputation of nuclear power as a viable energy source? In your answer, make reference to:
   1. The 1979 film *The China Syndrome*
   2. The accident at the *Three Mile Island* nuclear power plant in USA
   3. The meltdown at *Chernobyl* in 1986
   4. The accident at the Fukushima power plant following the Tsunami

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1. Evaluate the claim that ‘nuclear power is one of the safest forms of energy production’. In your answer, refer to:
   1. the *Fukushima* death toll
   2. the chart titled *Deaths from energy production*
   3. the 2013 report by Kharecha and Hansen re mortality rates between 1971 and 2009
   4. the link between nuclear power and nuclear weapons (i.e. *proliferation risks*)

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1. Identify and describe the ‘one crucial factor’ that prevents nuclear power from being used more widely. In your answer, outline how the French and Chinese have been able to address this factor to some extent.

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1. Explain how the lower cost of solar and wind energy have impacted on the viability of nuclear power.

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1. In the context of the best energy mix required to combat climate change, discuss the possible role of nuclear power.

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