

# Nuclear power economics - [bibliography]

## -- Nuclear Power Need and Future Outline n Economics



Description: -

- Nuclear energy -- Economic aspects -- Bibliography.Nuclear power economics - [bibliography]

- Bibliographical series (International Atomic Energy Agency)  
Its Bibliographical seriesNuclear power economics - [bibliography]  
Notes: LIBRARY HAS: v. 2, 1964-67 only.  
This edition was published in 1964



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## Nuclear Power Economics

This age distribution reflects the fact that almost 30 years ago, developed countries effectively stopped making commitments to build new nuclear plants. A far more reliable approach is Leak Before Break by which the designer ensures that a stable crack will penetrate the piping before larger scale failure.

## Nuclear Power Economic Costs

Competitiveness in the context of increasing use of power from renewable sources, which are often given preference and support by governments, is a major issue today.

## Basic Economics of Nuclear Power

Because nuclear power plants are much more capital intensive than alternative base-load electric-generating technologies, their economic attractiveness depends heavily on the construction costs of the plants, the cost of capital or hurdle rate used by investors to value the cash flow generated by the plants over time, and the lifetime capacity factor of the plant, since this defines the amount of electricity produced per unit of generating capacity that will earn revenues to cover both the operating and the capital costs of a new nuclear plant. And you can still set off the alarm, which means everything comes to the halt while you wait for the Health Physics monitor to show up, wand you down, and pronounce you OK to come in.

## Nuclear Power Goes On

How much energy do we need? Modern nuclear power plant designs are more inherently safe and may be constructed with less capital cost. The design also uses boron, a neutron absorber, in the cooling water to control the reactivity.

## Nuclear Economics Consulting Group (NECG)

Costs in the USA were about 10% lower than the EU, but still 30% higher than in China and India, and 25% above South Korea. The World Nuclear Association published in early 2017.

## **Basic Economics of Nuclear Power**

It can be argued that much of this escalation relates to the smaller magnitude of the programme by 2000 compared with when the French were commissioning 4-6 new PWRs per year in the 1980s and the resultant failure to achieve series economies.

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Capital and financing costs make up the project cost. The quantities needed are very much less than for coal or oil. A 2016 study by The Breakthrough Institute presented new data for overnight nuclear construction costs across seven countries.

### **Nuclear Power Goes On**

Multiple Package Contract vs Split Package Contract approaches were compared.

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