



The Changing Geopolitics of the Nuclear Energy Market – China

The Epicenter of Nuclear Growth

The Ux Consulting Company (UxC) issued a comprehensive report on China in 2009 as part of its series on *The Changing Geopolitics of the Nuclear Energy Market*. This report provides a detailed review of China's current and prospective nuclear power program and the role of nuclear in China's total energy supply.

No country in the world comes close to matching China's plans for nuclear power expansion. China's latest official target of reaching 5% of total electricity from nuclear plants by 2020 means that around 78 gigawatts-electric (GWe) of new nuclear capacity should be built over the coming decade. In fact, given current trends, China is on track to potentially becoming the world's largest user of nuclear power by the year 2030. China's tremendous new reactor numbers speak for themselves:

- 11 reactors in operation (8,602 MWe)
- 25 reactors under construction today for 25.6 GWe in new capacity
- 250+ planned new reactors
- 70+ identified reactor sites
- 5 main owner/operating companies and 32 secondary owners identified

Additional Reports in Series:

UxC's *Geopolitical Series* also includes in-depth reports on **India** and **Russia**. Along with China, these countries are likely to be the world's fastest growing nuclear power countries, and their impacts in terms of both supply and demand for nuclear fuel, reactors, and components will have long-lasting consequences on the global nuclear energy market. Discounted package pricing is available.

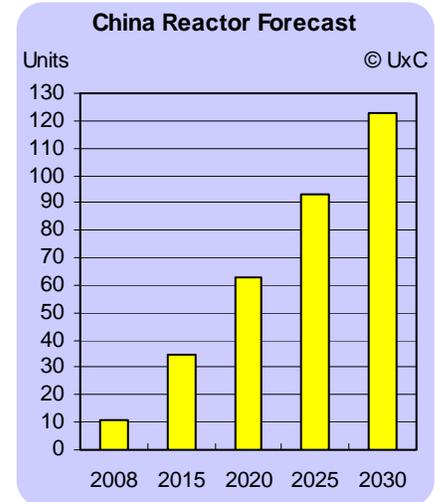
Like others in our *Geopolitical Series*, this report aims to separate the hype from reality and get down to answering serious questions, including:

- How much nuclear capacity and when will they build?
- What technologies will they choose?
- Which companies will be involved?
- What are the factors helping and/or hindering in their development?
- Where will they get the fuel to power their reactors?
- What impact will their growth in nuclear power have on other countries in the region or the world?

Comprehensive Coverage

UxC has carefully sifted through all the available information on China's nuclear power activities in order to produce the most fact-based, credible estimates for the country's nuclear power expansion. We assess the economic and energy drivers pushing the nuclear program forward as well as the various challenges facing this accelerated program. In presenting China's nuclear power prospects, the report examines all the nuclear plant projects, reactor designs, operating companies, suppliers, and investors involved as well as crucial international partnerships supporting the country's long-term nuclear power objectives.

The report identifies all major details of China's reactor program, including current reactors, those under construction, and plans for new units. UxC presents its proprietary forecasts for high, base, and low case nuclear power growth scenarios through 2030, examining the potential outcomes for China's future. These scenarios are also used to present China's likely requirements



for uranium, conversion, enrichment, and fuel fabrication through 2030 as well as its reactor market size.

The report also looks at China's nuclear fuel cycle program, including uranium production, conversion and enrichment plants all the way through the back end of the fuel cycle.

2010 Update Report

An update report was issued in May 2010 to keep clients abreast of further nuclear power developments in China.

The price of this report is \$4,500, although discounts are available for existing customers of UxC's market report products and a special discount is available to *UxC Policy Watch* subscribers. For more information on this report, please contact Jonathan Hinze at jonathan.hinze@uxc.com or +1-603-4254-1185, or Christian Rengifo at christian.rengifo@uxc.com or +43-699-1711-4476.

Ux Consulting

1501 Macy Drive, Roswell, GA 30076
770.642.7745 FX: 770.643.2954

www.uxc.com