

UAE Nuclear Power Programme Milestones

Current Status

The United Arab Emirates has joined nuclear newcomers with the beginning of construction on its first nuclear power reactor in July 2012. Currently, construction work on all four reactors is on-going. Unit 1 of Barakah Nuclear Power Plant is more than **74%** complete and is expected to enter commercial operations in 2017. Unit 2 is more than **50%** complete, with two more reactors intended to be built at the same site and expected to become subsequently operational.

The Project Overview

2008

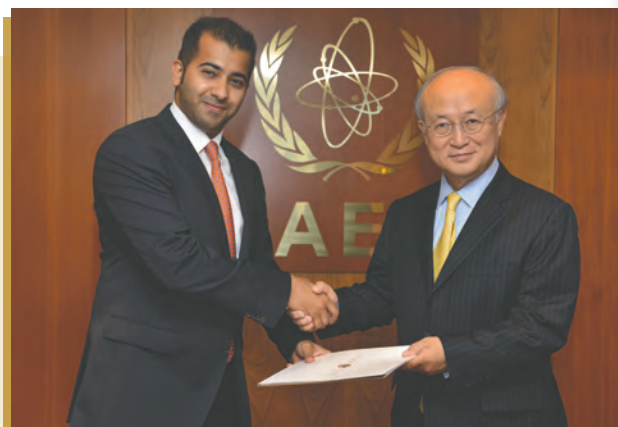
The UAE made the decision to pursue nuclear energy based on extensive evaluation of energy needs, which concluded that the nation's peak demand for electricity is likely to rise to more than 40,000 MWs by 2020, reflecting a cumulative annual growth rate of roughly 9% from 2007 onward. The UAE Government has adopted a detailed nuclear policy, the **Policy of the United Arab Emirates on the Evaluation and Potential Development of Peaceful Nuclear Energy**, which outlines the Government's approach to civilian nuclear power and its commitment to the highest standards of nuclear safety, security, non-proliferation, complete operational transparency, international cooperation and partnerships, as well as long-term sustainability.

2009

The UAE adopts its Federal Nuclear Law, which establishes an independent nuclear safety regulatory agency, the **Federal Authority for Nuclear Regulation (FANR)**, followed by the establishment of the **Emirates Nuclear Energy Corporation (ENEC)**, to implement commercial aspects of the UAE's peaceful nuclear energy programme.

2008-2014

The UAE completes the conclusion of all existing international agreements and conventions on peaceful nuclear energy to fulfil its international obligations and to strengthen international cooperation.



Accession to the Convention on Supplementary Compensation for Nuclear Damage, 2014

FACT SHEET 2015



Key Principles of the UAE Nuclear Policy:

- Complete operational transparency;
- Commitment to the highest standards of non-proliferation;
- Commitment to the highest standards in safety and security;
- Working directly with the International Atomic Energy Agency;
- Close partnership with the governments and firms of responsible nations; and
- Long-term sustainability.

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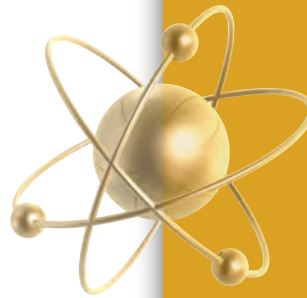
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■ 2009

The UAE awards the Prime Contract for its civil nuclear energy programme to a consortium led by the Korea Electric Power Corporation (KEPCO). The contract calls for KEPCO to design, build and jointly operate four power units of APR 1400 design.



UAE-S.Korea Nuclear Bid , 2009

■ 2010

The UAE identifies a Preferred Site for the Nuclear Power Plant at Barakah, in the Western Region of Abu Dhabi.

■ 2011

The UAE concludes two major IAEA Peer Reviews: the Integrated Nuclear Infrastructure Review (INIR) mission and the Integrated Regulatory Review Service (IRRS) mission to evaluate the UAE's infrastructure development progress.



IRRS Mission to UAE , 2011

■ 2012

The UAE's nuclear regulator, FANR, issues a construction licence for the UAE's first two nuclear reactors.

■ 2012

On 12 July, the UAE's nuclear operator, ENEC, commences construction on Unit 1 of the Barakah Nuclear Power Plant.

■ 2013

On 28 May, the UAE's nuclear operator, ENEC, starts construction of the second nuclear reactor, pouring the first batch of nuclear safety concrete for Barakah Unit 2.

■ 2014

On 20 May, the UAE receives its first Korean-built Nuclear Reactor Vessel for Unit 1 at the Barakah Nuclear Power Plant site.



Construction work at Unit 1 of the Barakah Nuclear Power Plant, 2015

■ 2014

On 24 September, ENEC commences pouring of concrete for Unit 3 at Barakah NPP.

■ 2015

On 17 June, ENEC installs second reactor vessel, where energy production takes place, at Barakah.

■ 2015

On 2 September, ENEC starts construction of its fourth nuclear reactor.

By 2020, four APR 1400 MWe nuclear plants are projected to be operational in the United Arab Emirates to meet the nation's growing demand for electricity.

Major Milestones to be achieved ahead:

- 2016: Fuel Loading
- 2017: Completion of Unit 1
- 2018: Completion of Unit 2
- 2019: Completion of Unit 3
- 2020: Completion of Unit 4

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