

an  **IISS** *strategic dossier*

NUCLEAR PROGRAMMES IN THE MIDDLE EAST

In the shadow of Iran

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The International Institute for Strategic Studies

ARUNDEL HOUSE | 13-15 ARUNDEL STREET | TEMPLE PLACE | LONDON | WC2R 3DX | UK

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COVER IMAGES: Drums containing nuclear waste at Yonggwang Nuclear Power Plant, South Korea, April 2006; Bushehr nuclear power plant in Iran; yellowcake; Iranian army fires test missiles outside the city of Qom, southeast of Tehran. © AP/PA Photos / Areva

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Abbreviations

ACRS	Arms Control and Regional Security	MTHM	Metric tonne of heavy metal
AEA	Atomic Energy Authority (Egypt)	MUF	Material unaccounted for
AEE	Atomic Energy Establishment (Egypt)	MoU	Memorandum of understanding
AERI	Atomic Energy Research Institute (Saudi Arabia)	MWe	Megawatt of electric power
AKP	Justice and Development Party (Turkey)	MWt	Megawatt of thermal power
ASSIST	Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency	NAM	Non-Aligned Movement
BWC	Biological Weapons Convention	NATEC	National Atomic Energy Commission of the Republic of Yemen
CBW	Chemical or biological weapons	NCNSRC	National Centre for Nuclear Safety and Radiation Control (Egypt)
CNAEM	Cekmece Nuclear Research and Training Centre (Turkey)	NCRRT	National Centre for Radiation Research and Technology (Egypt)
CNESTEN	Centre National de l'Energie, des Sciences et des Techniques Nucléaires (Morocco)	NIE	National Intelligence Estimate
COMENA	Commissariat pour l'Energie Atomique (Algeria)	NOT	Convention on Early Notification of a Nuclear Accident
CPA	Coalition Provisional Authority (Iraq)	NPPA	Nuclear Power Plants Authority (Egypt)
CPPNM	Convention on the Physical Protection of Nuclear Material	NPT	Nuclear Non-Proliferation Treaty
CTBT	Comprehensive Test Ban Treaty	NRC	National Research Centre (Egypt)
CWC	Chemical Weapons Convention	NSG	Nuclear Suppliers Group
EMIS	Electromagnetic isotope separation	NWFZ	Nuclear-weapons-free zone
EU	European Union	NWS	Nuclear-weapons state
FMCT	Fissile Material Cut-off Treaty	PKK	Kurdistan Workers' Party
GCC	Gulf Cooperation Council	PUREX	Plutonium uranium extraction
GNEP	Global Nuclear Energy Partnership	SCENR	Supreme Council for the Environment and Natural Reserves (Qatar)
HEU	Highly enriched uranium	SESAME	Synchrotron-Light for Experimental Science and the Applications for the Middle East (Jordan)
HLWMC	Hot Laboratory and Waste Management Centre (Egypt)	SSRC	Scientific Studies and Research Centre (Syria)
IAEA	International Atomic Energy Agency	SQP	Small Quantities Protocol
IAEC	Iraqi Atomic Energy Commission	TAEK	Turkish Atomic Energy Authority
IAEC	Israeli Atomic Energy Commission	TNRC	Tajoura Nuclear Research Centre (Libya)
ISG	Iraq Survey Group	UAE	United Arab Emirates
KACST	King Abdulaziz City for Science and Technology (Saudi Arabia)	UNMOVIC	United Nations Monitoring Verification and Inspection Commission
KAMAG	Negev Nuclear Research Centre (Israel)	UNSCOM	United Nations Special Commission
LEU	Low-enriched uranium	UF₄	Uranium tetrafluoride
LWR	Light-water reactor	UF₆	Uranium hexafluoride
MALMAB	Chief of Security of the Ministry of Defence (Israel)	UO₂	Uranium dioxide
MAMAG	Soreq Nuclear Research Centre (Israel)	WAES	Wide-area environmental sampling
MNSR	Miniature neutron-source reactor	WMD	Weapons of mass destruction

