

# Nuclear Power Ambitions in the Middle East and Beyond

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# Nuclear Power in the Middle East and Türkiye today



# History of nuclear power in the region

<b>Iran</b>		<ul style="list-style-type: none"><li>• 1957 - Civil nuclear programme established under Atoms for Peace</li><li>• 1975 – Construction of Bushehr 1 and 2 begins</li><li>• 2013 – Bushehr 1 enters operation</li><li>• 2019 – Bushehr 2 construction restarts, commercial oper. in 2024</li></ul>
<b>Egypt</b>		<ul style="list-style-type: none"><li>• 1983 – El Dabaa site selected</li><li>• 2015 – IGA signed with Russia</li><li>• 2022 – Construction of unit 1 (of 4) begins</li></ul>
<b>Türkiye</b>		<ul style="list-style-type: none"><li>• 1970 – Feasibility study on nuclear</li><li>• 1976 – Akkuyu site licensed</li><li>• 2006 – Sinop site selected</li><li>• 2010 – IGA signed with Russia</li><li>• 2018 – Construction of Akkuyu unit 1 (of 4) begins</li></ul>
<b>UAE</b>		<ul style="list-style-type: none"><li>• 2008 – Nuclear energy policy</li><li>• 2009 – Contracts signed with KEPCO</li><li>• 2012-2016 – Construction starts for units 1-4</li><li>• 2020-2022 – units 1-3 enter into operation</li></ul>
<b>KSA</b>		<ul style="list-style-type: none"><li>• 2009 – Royal decree on nuclear energy</li><li>• 2015/2016 – Joint ventures with Korea, Argentina, China on SMRs</li><li>• 2017 - establishment of the Saudi National Atomic Energy Project (SNAEP)</li></ul>
<b>Jordan</b>		<ul style="list-style-type: none"><li>• 2007 – Nuclear policy; establishment of JAEC and JNRC</li><li>• 2014-2018 – IGA with Russia, plans to build two-unit NPP</li><li>• 2018 – Plans to pursue SMRs</li></ul>

## Why nuclear in the region?

Free up oil and  
gas for export

Decarbonization

Industry  
(Desalination,  
Hydrogen)

Reliable Energy

Sustainable  
Development

Energy Security

Economic and  
Technological  
Growth

Supply Chain  
Opportunities

Investment  
Opportunities

## Challenges

Government  
Commitment to  
Nuclear Energy

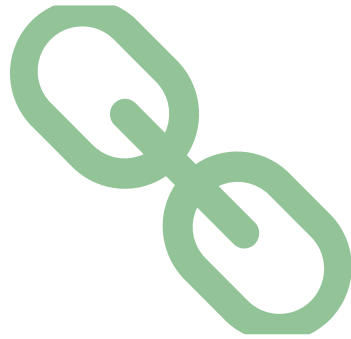
Human Resource  
Development

Financing

Regulatory  
Capability

Supply Chain  
Qualification

# Opportunities



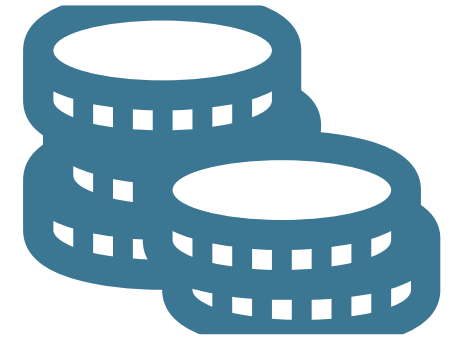
Increased regional cooperation:  
financial and human resources



Incorporate lessons learned into new project development



Streamline licensing – harmonization+  
International Technical Support Organization



Transformative financing mechanisms –  
International Bank for Nuclear Infrastructure

## Resources



### Establishing the Framework to Facilitate Licensing of New Nuclear Projects in Embarking Countries

February 2023



<https://www.catf.us/resource/establishing-framework-facilitate-licensing-new-nuclear-projects-embarking-countries/>



<https://nuclearbank-io-sag.org/>

# Thank you for your attention



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