UAE Peaceful Energy Program – Our Story
History of Peaceful Nuclear Energy in the UAE
The UAE is Growing Fast

- 9.27 million (2016 estimate) Emirati nationals
- 87% is Emirati of Abu Dhabi
- 30.3 years
- 27 GW of installed capacity
- Demand growth at approx. 4-5% per annum
- Targets 30% clean energy by 2030, including solar and nuclear
- Targets 50% clean energy by 2050, with 6% nuclear energy

Population 9.27 million (2016 estimate)
Area 83,600 sq km
Median Age 30.3 years
Energy

- 27 GW of installed capacity
- Demand growth at approx. 4-5% per annum
- Targets 30% clean energy by 2030, including solar and nuclear
- Targets 50% clean energy by 2050, with 6% nuclear energy
Options for Meeting Demand

**Nuclear Energy**
Clean, proven and commercially viable technology that delivers significant volumes of baseload electricity

**Natural Gas**
Generates largest share of UAE electricity, but not enough to meet future demand

**Coal**
Low in cost, but presents environmental concerns

**Renewable Energy**
Important part of the UAE’s energy mix.
The Right Choice for the UAE

- Safe, clean and proven technology
- Commercially viable
- Delivers significant volumes of baseload electricity
UAE Policy on Peaceful Nuclear Energy

Policy Principles:
• Complete operational transparency
• Highest standards of non-proliferation
• Highest standards of safety and security
• Conformance to IAEA standards
• Partnerships with the governments and firms of responsible nations, and appropriate expert organizations
• A program that best ensures long-term sustainability

Policy released in April 2008
International Support

- Working with the full support and confidence of the international community
- Building on the most rigorous standards of safety, transparency and security
- Instilling a culture of continual improvement
The Joint Venture

- KEPCO
- Emirates Nuclear Energy Corporation
- Barakah One Company PJSC
- Nawah Energy Company

Commercial Interests
Nuclear Operations & Maintenance
Overall completion of the four units: 90%
as of October 2018
Developing Skilled Professionals

- Recruiting, training and mobilizing a team of highly skilled professionals
- Meeting a need for approximately 2,800 highly trained personnel
- Drawing from international best practices
Program Challenges

- Non-conventional project management
- Financing
- Manpower

- Key lessons to share – early development of human capital
Thank You