

This report provides information on the status and development of nuclear power programmes in the United Arab Emirates (UAE), including factors related to the effective planning, decision making and implementation of the nuclear power programme that together lead to safe and economical operations of nuclear power plants.

This publication describes the potential use of nuclear and renewable generation in coordinated, and in some cases tightly coupled, configurations to support various applications beyond electricity production, including desalination, hydrogen production and district heating.

I am pleased that IRENA's host country, the United Arab Emirates, is our partner on one of the first REmap country reports. The UAE took a bold stance to embrace renewable energy - a ...

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The hybrid or integrated energy systems, considering integration of low emissions technologies like nuclear reactors and renewable energy sources, are a viable solution to power generation and production of additional commodities (such as hydrogen and potable water) while also ensuring storage of heat, electricity and other energy vectors and ...

A hybrid renewable energy system (HRES) is broadly defined as the merge of two or more renewable energy sources or one or more sources of renewable energy with one/more sources of conventional energy (Amer et al., ...

IAEA Director General Rafael Mariano Grossi emphasized the importance of nuclear energy in helping countries reach their net zero goals in a panel with members of the renewable energy community at the

International Vienna Energy and Climate Forum.

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In this work, the integration of renewable and nuclear energy in the UAE's power sector is formulated as a Mixed Integer Linear Programming (MILP) model. The aim is to determine the optimal power infrastructure, while meeting the electricity demand under environmental constraints.

Nuclear-renewable hybrid energy systems can include various applications, such as seawater desalination, hydrogen production, district heating or cooling, the extraction of tertiary oil resources and process heat applications, such as cogeneration, coal ...

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Nuclear-renewable hybrid energy systems are integrated facilities comprised of nuclear reactors, renewable energy generation, and industrial processes that can simultaneously address the need for grid flexibility, greenhouse gas emission reductions, and optimal use of investment capital.

A hybrid renewable energy system (HRES) is broadly defined as the merge of two or more renewable energy sources or one or more sources of renewable energy with one/more sources of conventional energy (Amer et al., 2013). The intention of adapting HRES is to ensure the maximum usage of renewable energy sources and increase their efficiency.

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