

Characteristics and Capabilities of the Saudi Low Power Research Reactor (LPRR)

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The Saudi Low Power Research Reactor (LPRR) is one of the unique Saudi Vision 2030 projects. It is a pool-type multipurpose low power nuclear reactor designed and developed by King Abdulaziz City for Science and Technology (KACST) with the participation of international expertise in accordance with the best and highest international safety standards. The reactor is under construction and expected to be fully operated by mid of 2024. In line with the Vision 2030, the Saudi LPRR will thoroughly contribute to the innovative design and development of the nuclear reactor industry in the Kingdom, developing and qualifying competencies and building human capacity to operate nuclear power reactors, and transferring nuclear energy technologies. The LPRR is equipped with several attractive facilities with various capabilities and designed as a multipurpose low power reactor to support demands on research, education, training for building human capital, and developing the competencies to support the country's national atomic energy project.

In this paper, the main characteristic of the Saudi LPRR will be presented in terms of the reactor core design, main utilization, and training capabilities.

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