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## KIT Facility Overview

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The Institut für Beschleunigerphysik und Technologie (IBPT) at the Karlsruhe Institute of Technology (KIT) operates the Karlsruhe Research Accelerator, KARA, with the 2.5 GeV electron storage ring, the 40 MeV to 90 MeV short-pulse linear accelerator FLUTE, and KITTEN, the KIT test field for energy efficiency and grid stability in large research infrastructures for energy-responsible research combining Europe's largest research laboratory for renewable energy, the Energy Lab, with KARA, the test facility for accelerator technologies. With the additional ATP facilities of the accelerator technology platform like the Magnet and Cryogenics Facilities, this is a perfect environment for accelerator research and technology transfer. In the future, cSTART - a compact storage ring ideally suited to study novel operation scenarios - and compact laser-plasma accelerators including a 75 TW laser system will expand the short-pulse facilities. In this presentation, we will explore and highlight cutting-edge research and technologies at KIT's advanced accelerator test facilities.

### Summary

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