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Installation, operational experience, beam purification techniques, and status report of the HIE-ISOLDE project.

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REX-ISOLDE is the radioactive ion beam post-accelerator of ISOLDE. It employs a unique combination of Penning trap and Electron Beam Ion Source to charge-breed heavy ions before acceleration in a compact normal conducting linear accelerator to a maximum energy of 3 MeV/u. REX is in operation since 2001 and will be upgraded in the coming years with a superconducting quarter wave resonator linac (HIE-ISOLDE) to reach a final energy of 10 MeV/u for ion beams up to A/q 4.5. An overview of the installation will be given focussing on operational experience and beam purification techniques. A status report of the HIE-ISOLDE project will also be given.

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