

## Facility report of Compact ERL (cERL) at KEK

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Compact ERL (cERL) is a test facility, which was constructed on the ERL Test Facility in KEK. Its aim was to demonstrate energy recovery concept with low emittance, high-current CW beams of more than 10 mA for future multi-GeV ERL. In 2016 and 2018, we successfully operate the CW 1 mA beam in the energy recovery condition. Recently, this cERL was operated to promote a variety of the industrial applications such as SASE-IR-FEL operation for future ERL based EUV-FEL production, THz operation and Rare Isotope (RI) production for medical application. In this presentation, we will present the status of the studies to realize the stable high-current, low-emittance CW beam and report some industrial and medical applications with this beam in cERL.

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