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# The major upgrade projects EPAC and Vulcan 20-20

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To stay up to date with the user requirements, two major upgrade project are ongoing at the Central Laser Facility.

The first project EPAC is aiming to provide a 1PW laser system, 30J in 30fs at 10Hz. A new building has been recently completed and the installation phase is now starting.

The second project Vulcan 20-20 is at the final stage of the approval. The aim is to deliver a 20PW laser pulse, 400J 20fs, within long laser pulses of around 10ns and up to 10kJ of energy.

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