

# CSNS linac energy upgrade

*Tuesday 27 August 2024 10:10 (20 minutes)*

The CSNS power upgrade project (CSNS-II) has been launched. It will increase the proton beam power from 100 kW to 500 kW, along with the new construction of 9 neutron instruments. CSNS-II will utilize superconducting accelerator structures to raise the linac energy from 80 MeV to 300 MeV. The pre-research on key technologies has been completed. The newly developed RF ion source is already operational. Prototypes of the dual-spoke and 6-cell elliptical superconducting cavities and their corresponding cryomodules have been developed.

## Footnotes

## Funding Agency

**Author:** LIU, Huachang (Dongguan Neutron Science Center)

**Presenter:** LIU, Huachang (Dongguan Neutron Science Center)

**Session Classification:** Main Session TUX

**Track Classification:** MC3: Proton and Ion Accelerators and Applications: MC3.4 Proton linac projects