

United States Department of Energy

Project Management Achievement Award

Presented to:

The Office of Science's 12 GeV CEBAF Upgrade Project

Using the world's most advanced particle accelerator for investigating quark structure, the Continuous Electron Beam Accelerator Facility (CEBAF) 12 GeV Upgrade project enables researchers to "see" objects a million times smaller than an atom. The 12 GeV Upgrade project added 10 new, high-performance accelerating cryomodules constructed with the highest gradient state-of-the-art superconducting cavities, 3 new spectrometer systems requiring 7 unique superconducting magnets, and 32 new detector subsystems built with 87,000 sensors. New electronics and computing systems will handle the expected 34 trillion bytes of recorded data per day. Additionally, the 12 GeV Upgrade project will enable discovery of full three-dimensional structure of quarks in nuclei and provide physicists deeper insights into the nature of the Universe. The project team is commended for overcoming significant project challenges, and delivering this complex, \$338 million project on budget and schedule.

Rick Perry

Rick Perry
Secretary of Energy

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