

The Advanced Photon Source has been in operation since 1995 and consists of a storage ring where the synchrotron light is produced and an injector complex that generates electron bunches and accelerates them to the energy of 7 GeV. A full replacement of the storage ring has been designed and is being presently manufactured; it will result in up to a 500-fold increase in X-ray brightness. The injector complex is also being refurbished to ensure smooth operation over the next 20 years. The storage ring replacement work is planned to start in April 2023, and the first new light will be generated a year later.