A new generation of high intensity Free Electron Lasers base on SASE (Self Amplified Spontaneous Emission) are being developed in USA, Europe and Asia. Besides the major projects, (LCLS, X-FEL,) which aredesigned to produce coherent photons at 10 keV, thereare severalworldwide initiatives aiming at the construction of national facilities in the VUV and Soft X-ray range. The italian initiatives SPARC, SPARX at Frascati, and FERMI at Trieste will be presented.