We have obtained 23 J uncompressed laser pulses at a repetition rate of 1 Hz with a spectral width of 41 nm FWHM which could produce 600 TW if compressed; this is the highest energy obtained to date from a Titanium Sapphire amplifier working at a such repetition rate. This amplifier is part of a 1.3 PW laser system under construction by Thales Optronique for the BELLA project of LBNL aiming laser wakefield acceleration of electrons up to 10 GeV.