Eisenstein series on exceptional Lie groups are used in a number of constructions in number theory and representation theory. These groups have exotic arithmetic configurations, but are limited in number. It is thus tempting to define Eisenstein series on infinite-dimensional Kac-Moody groups. In the simplest such case of affine loop groups, they were constructed by Garland, who showed convergence in a shifted Weyl chamber. We give the full holomorphic continuation of Garland’s cuspidal Eisenstein series to the entire complex plane. We also give the first convergence results for general Kac-Moody groups. I plan to describe these results as well as to indicate possible applications to the Langlands-Shahidi method and some recent work in string theory concerning graviton scattering. (Joint work with Howard Garland and Manish Patnaik.)