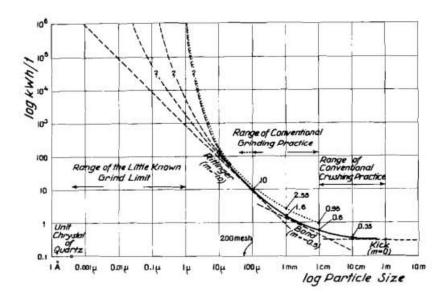
The energy size relationship is observed to have an exponent that varies as a function of particle size, e.g., see R. T. Hukki, "Proposal for a Solomonic Settlement between the Theories of von Rittinger, Kick and Bond," Transactions on AIME, Vol. 220, 1961, pp. 403-408.



Don't forget Morrell's approach which reflects this understanding.

http://www.smctesting.com/about/technical-information

For some comparative benchmarking information look at, Ballantyne, G.R. and Powell, M.S., Benchmarking comminution energy consumption for the processing of copper and gold ores. Minerals Engineering, 65, 2014, 109-114.

Benchmarking comminution energy for copper and gold ores