1100-35-90 Igor E. Verbitsky\* (verbitskyi@missouri.edu), Department of Mathematics, University of Missouri, Columbia, MO 65211. Finite energy and weak solutions of quasilinear elliptic equations. We study finite energy and weak solutions to the homogeneous quasilinear equation -Δ<sub>p</sub>u - σu<sup>q</sup> = 0, u > 0, on R<sup>n</sup> in the case 0 < q < p - 1, where Δ<sub>p</sub> is the p-Laplacian and σ ∈ L<sup>1</sup><sub>loc</sub> is an arbitrary nonnegative function (or measure) on R<sup>n</sup>. Necessary and sufficient conditions for the existence, and bilateral pointwise estimates of solutions will be presented, along with a discussion of regularity and uniqueness questions. This is joint work with Cao Tien Dat. (Received January 31, 2014)