1108-00-49Hongli Gao* (gaohongl@msu.edu), 4382 Okemos Road Apt G214, Okemos, MI 48864.Minimization and the Gradient Flow of a Non-smooth Convex Functional.

We first study the existence and property of the minimizer of a non-smooth convex integral functional. After that, the gradient flow of the functional will be calculated. At the end, the minimizer and the gradient flow of a special case will be studied. (Received December 15, 2014)