Evaluation of Energy Parameters – Necessary Precondition for Landscape Functioning and Environmental Optimization Process

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Evaluation of energy parameters for natural-territorial complexes is identified as one of the significant factors in landscape complex research, their optimization (mellioration, recultivation, etc.) and in the process of planning and projecting. The most important among them are the two main landscape energy parameters – solar radiation and gravitational energy (relief energy in particular).

Transformation of gravitational energy into natural complexes is reflected by the indices such as overall complex potential energy and separate geomass functioning.

$$(E = E_p + \sum An),$$

where, E_p -is landscape potential energy, $\sum An$ – arithmetical total of geomass functioning. Landscape potential energy is calculated according to the formula:

E = mgh,

where, m – is landscape mass, g – free fall accelaration (9,81 ∂ / 2), h – landscape (geo- horizon) absolute height.