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The invention relates to the installations for wind energy conversion into the mechanical one, which can be used for the production of electric energy.

The rotor-type windmill with vertical shaft comprises arched blades. Each blade is made in the form of a rectangular frame with vertical supports and horizontal arched cross-members. The marginal vertical support of the frame is rigidly fixed to the shaft. To each vertical support, from its concave side, in the upper and lower parts there are articulated consoles. Flexible sails are fixed to the consoles.

The technical result consists in increasing the service life of the windmill mobile parts.