

The Photovoltaic Greenhouses - a Challenge for Republic of Moldova

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Abstract

The photovoltaic greenhouses that emerged at the beginning of the century as a way of arable land preservation through the concordance between electricity generation and crop growth have shown a number of advantages for both economic branches. As solid electricity consumer, greenhouses are using a considerable or even the entire amount of the produced energy on the spot without any costs nor losses related to electrical network distribution. The availability of electricity allows application of artificial lighting in PV greenhouses, as a result extending the duration of the photosynthesis process up to 16 ÷ 17 hours that subsequently significantly reduces plants growth time.