

THE IMPACT OF CHANGES IN POLISH LAW ON THE PROFITABILITY OF PHOTOVOLTAIC MICRO-INSTALLATIONS

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Abstract: Due to supporting programs introduced by the Polish government photovoltaic (PV) installations became more and more popular in Poland over the past five years. Especially so called prosumers systems became dominant on a photovoltaic market. From the 1st of April 2022 the way the surplus energy generated by microinstallations changed from net-metering to net-billing. This modification has made prosumer photovoltaic installations less advantageous. Furthermore, the way in which surplus energy is accounted for will change. The average wholesale price per kWh for the previous month will be superseded by a wholesale price set on an hourly increments. Also the support schemes encourage installations that focus on self-consumption, e.g. systems with energy storage. This variable factors make investors wishing to invest in PV microinstallations uncertain about the viability of such systems. Presented work includes an analysis of the present and future accounting surplus energy for a standard household located in south-eastern Poland. Moreover systems without and with energy storage were also analyzed. In order to ascertain the viability of current and future photovoltaic installations, the “Moj Prąd” programme was also taken into account. The results demonstrate that the profitability of a prosumers system is dependent on the energy market, self-consumption and supporting programs.

Keywords: photovoltaic, net-billing, self-consumption, energy storage