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Gusty winds make notable operational problems to wind farms. One of these is associated to the hysteresis of cut-out regulation, leading to significant loss of energy production. In Croatia a strong, gusty, downslope wind called Bura often blows at the Adriatic coast and mountains in the hinterland. Wind farms installed in this region could suffer from the turbulent characteristics of the Bura, resulting in decreased production. In this paper the operational experience of the Ravne I wind farm, installed at the site where the Bura wind dominates, was analysed and compared to the estimates of expected energy losses associated with the hysteresis effect, based on measured wind data time series.