## Explicit solutions of stochastic energy storage problems

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We consider stochastic optimization of the dispatch of energy storage against exogenous, stochastic prices. Arbitrarily many periods are considered, and also continuous time solutions. A common application is hydropower storage, but other energy storage with an interchange between reservoirs apply, too.In addition, explicit solution of an ancillary service of balancing power supply is shown in a simplified case. In both cases, we provide numerical examples related to hydropower, and we hint to limits of the approach. The work is an extension of [1].

## References

[1] Densing, M.: Dispatch Planning using Newsvendor Dual Problems and Occupation Times: Application to Hydropower, *European Journal of Operational Research*, v. 228, pp. 321-330, 2013.