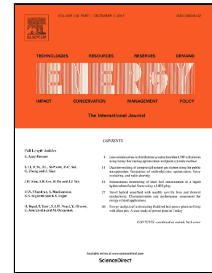


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Optimization of variable-head hydropower system operation considering power shortage aspect with quadratic programming and successive approximation

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Highlights

- This study is from the common problem of electricity shortage in power system.
- The hydropower operation model considering power shortage aspect is given.
- A quadratic programming (QP) algorithm is presented to resolve this problem.
- The QP method has satisfactory performance in alleviating electricity shortage.

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