Ensemble Streamflow Forecasts for Hydropower Systems.

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Run-of-river plants:

1. Depends on the spatial structure of the river basin
2. Efficiency of the watersheds in transforming the rainfall into the runoff.

A hydropower operator wants to:

1. Meet demand at all times
2. Sell most of the electricity at the highest possible prices
3. Manage facilities at the optimal conditions (i.e. be prepared to sell the electricity at highest possible prices, without causing loss)

Q. Analog-based precipitation?

Three goodness of a forecast:

1. Consistency
2. Quality
3. Value

Sharpness: precision, the extent to which the distribution of the ensemble concentrates around a certain value

Key Issues and Future Challenges:

It is therefore important to promote the development of more case studies that explore the complex relationship between quality and value of forecasts in a variety of applications in the hydropower sector.