## New York Power Authority Niagara Power Project

\$ impact of forecasting error sources of uncertainty What is NYPA doing about it? HEPEX keys for success



## Impact of forecasting error

Example 1: Month ahead Niagara River flow
\$xx million since 2000



# Impact of forecasting error



Example 2: Lake Erie water level surges
\$x million/yr



Integrate hydrologic uncertainty and market price uncertainty

Weather uncertainty Hydrologic uncertainty

Market price uncertainty

Hydropower operating decisions

HEPEX and beyond, Two keys to success, from the user perspective

### Flexability

- Location
- Timestep
- Length
- Frequency
- Format
- Unique hydraulics

#### Marketing

- Identify users
- User commitment
- Value-added vendors