

Lower Mekong Initiative (LMI) Integrating River Planning for Energy and Environment Technical Workshop

Workshop Purpose and Goals

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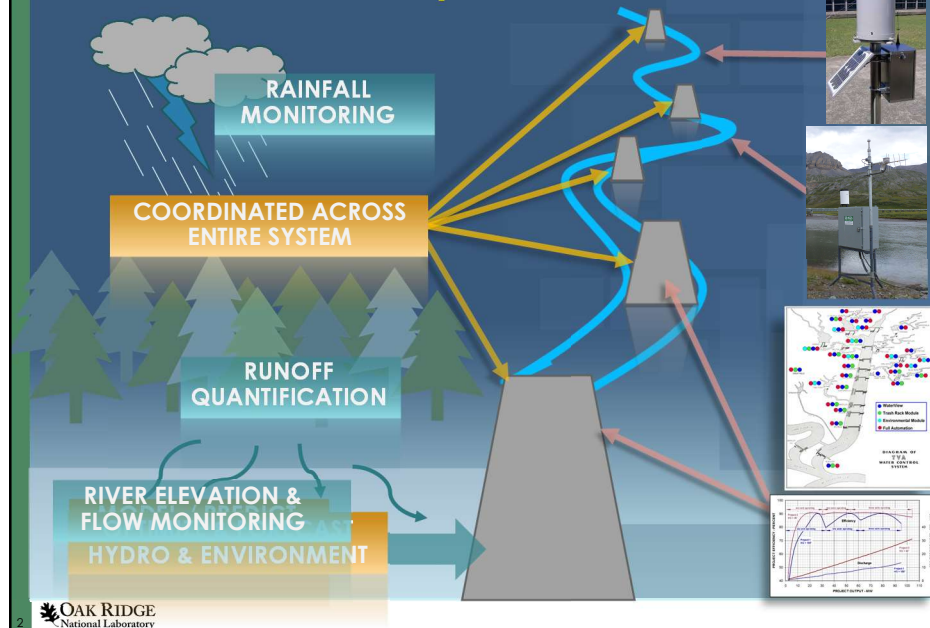
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What is Needed & Why?



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What Tools Are Required?

Monitoring, Testing & Data Collection

River / Reservoir

- Flow & Elevation Gauges
- Water Quality (DO, Temperature, etc.)
- Fish & Eco-Health Studies

Hydropower Plant

- Flow & Power Monitoring
- Water Quality (DO, Temperature, etc.)
- Spillway / Alternative Flow Settings
- Environmental Flow

Mekong System

- Basin-wide Monitoring for System Coordination
- Fleet-wide index testing
- System-wide sustainability of fish and water needs.

Data Transfer & Storage

On-site Acquisition

- On-site data acquisition computers
- Radio-uplink transmitters for real-time transfer to off-site storage

Off-site Storage

- Off-site centralized facility for storage, maintenance, and control of data. Used in models and forecasting.

Data Control

- Storage and security protocols for maintaining confidentiality and appropriate user and public access to data.

Models & Forecasting Tools

Hydraulic & Water Quality

- Predict timing, quantity, and quality of river and the environmental and biological constituents.

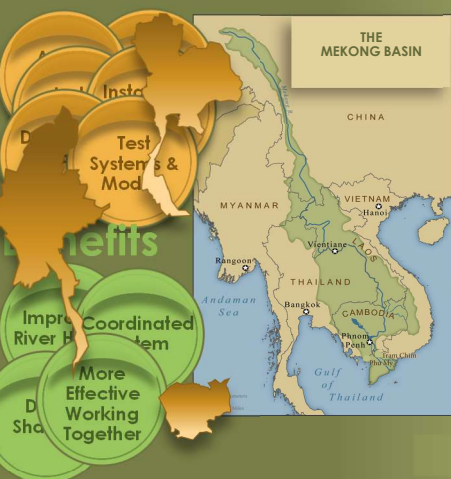
Unit & System Optimization

- Determination and planning of most efficient operation of hydropower units.
- Balancing flood control, water supply, power and environment.

System Status & Forecasting

- Real-time assessment and planning for future operations.

Application & Implementation



Thank you for your attention!

Questions?

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