



# Asset Management in Generation

Asset Management is making the right asset investments to achieve strategic objectives while balancing costs, opportunities, and risks. Public regulatory bodies consistently press utilities to demonstrate a defensible, coordinated approach to justify capital and operating expenditures. The long lifetime of generation assets coupled with significant risks, such as revenue variation and asset deterioration throughout this long lifetime, reinforce the need for an overall management system for these assets. The generation industry is embracing the benefits from the implementation of asset management practices.

The Asset Management In Generation (AMIG) will provide real life examples and direction to implementing asset management in generation utilities. AMIG was formed from the Asset Management Task Force, initiated as part of the Hydraulic Plant Life Interest Group in 2011.

The group will expand to cover all aspects of asset management, from the development of policies and strategies, to risk frameworks, asset management plan performance evaluation, and investment management, to help utilities achieve strategic objectives. The group will consider inputs from all asset management standards and the diverse experience of international members. Topics and projects will be user-driven to provide value to members at all levels of asset management maturity.

CEATI recognizes that the higher-level asset management processes are universal for all aspects of a utility, and AMIG will work with the CEATI Transmission and Distribution groups on these shared aspects. This will bring the added value of continuity of process and a larger member pool for participating utilities.

## Topics & Issues

1. Bridging Asset Management Plans & Maintenance Planning
2. Change Management and Building Asset Management Culture
3. Risk Identification and Management
4. Whole Life Cost Model Development
5. Key Performance Indicators



## Technical Advisor



**Mr. Don Ans** graduated from the University of Manitoba in 1985 with a Bachelor's degree in Electrical Engineering, and from Athabasca University in 2012 with a Master's Degree in Business Administration. He has over 33 years of experience in the operation, maintenance, and asset management of hydro-electric generating stations. During his career with Manitoba Hydro, Don was responsible for carrying out and managing maintenance engineering, reliability and commissioning functions at all of the utility's facilities, management of the corporate Chemical Laboratories, and leadership of the corporate Enterprise Asset Management project. Don took on leadership of Generation Asset Management and led the implementation of asset management processes until his retirement. Don joined CEATI in 2017. He also currently provides contract services in the areas of generating station maintenance engineering and asset management processes and software.

## Topics

### Context of the Organization

- Development of an Asset Management Policy and Strategy for Generation
- What asset types are in your AM portfolio?

### Leadership

- At what level of the organization is the Asset Management policy issued?
- Where is the Asset Management group located within your organization?

### Planning

- What does your Asset Management framework look like?
- What are the key drivers for your AM program?
- How is risk identified, managed, and prioritized across the entire portfolio of assets?
- Do you have standard whole life cost models?
- How are Asset Management and maintenance planning reconciled in your program?

### Operations

- How are Asset Management plans operationalized?
- Is operations and outage planning integrated into Asset Management?

### Support

- Generation specific Asset Management information systems: which systems provide the best support?
- How does your utility ensure adequate resources for executing Asset Management objectives and activities, especially with the mix of operating and capital work?
- Use of Artificial Intelligence in Asset Management planning.

### Performance Evaluation

- Do you have Key Performance Indicators (KPIs) for Asset Management? What are they? How do you use them? Are they useful?

### Improvement

- Do you have best practices to share concerning building an Asset Management culture across an entire company?
- Which level of Asset Management maturity are you at and which areas do you need guidance in to develop?

## Annual Activities

- Quarterly Conference Calls
- 2-Day Industry Conference
- General Meeting
- Surveys & Projects
- Webinars

\*Participation is open to Electrical Utilities, Independent Power Generators, and Government Agencies.

