

Brookfield Renewable Power Inc.

Brookfield



One Company's Approach to Dam Safety

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Forward Looking Statement

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Brookfield Asset Management

A global asset management company

- ▶ Brookfield Asset Management is an asset management company, focused on property, power and infrastructure assets
- ▶ Approximately US\$80 billion of assets owned and under management
- ▶ Approximately 10,000 employees in the Americas, Europe and Australia



▶ **120 million sq. ft. office and retail space**



▶ **165 renewable power plants**



▶ **2.5 million acres of timberlands**



▶ **11,000 km of transmission lines**



Brookfield Renewable Power

Unique power operations focused on renewable energy sources

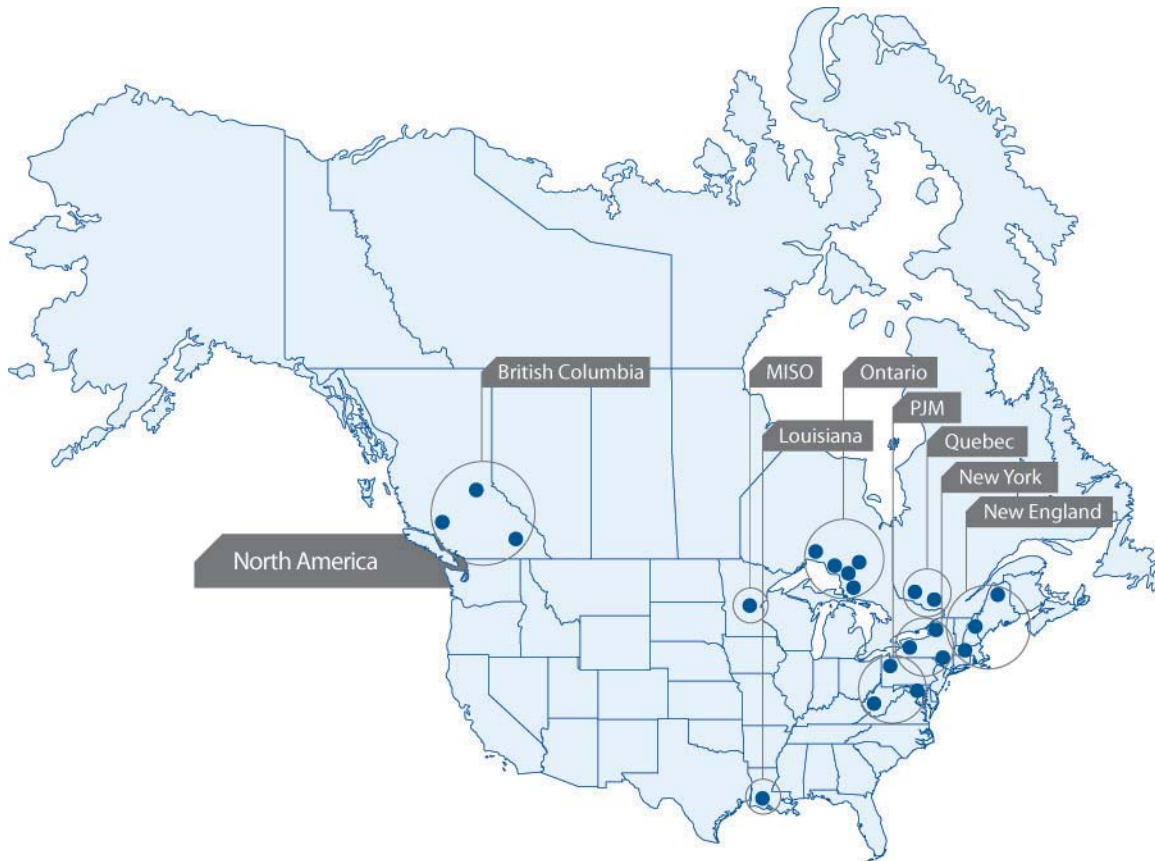
- ▶ Brookfield Renewable Power is a leading producer and developer of renewable energy focused on:
 - hydroelectric
 - wind
- ▶ Over US\$12 billion of assets owned and under management
- ▶ Approximately 1,000 employees in North America and Brazil





Brookfield Renewable Power

Geographically diverse operations



- ▶ 3 countries: United States, Canada and Brazil
- ▶ 9 markets
- ▶ 64 river systems





Dam Safety: Federal & State Considerations



U.S. Hydropower Assets

	Installed Capacity (MW)	Annual Generation (GWh)
Louisiana	192	903
Maine	186	1,142
Maryland	20	27
Massachusetts	610	415
Minnesota	18	104
New Hampshire	45	262
New York	702	3,025
Pennsylvania	28	73
West Virginia	102	529
Total*	1,903	6,480

* Includes pumped storage facility.

100 Hydroelectric Facilities

- 154 Dams
- 25 River Systems
- 9 States
- 94 FERC Jurisdictional Projects.
- 6 FERC Non-Jurisdictional Projects (5-NY; 1 MD)



Recent Dam Safety Legislative Changes in New York

- ▶ Adopted August 19, 2009
- ▶ Primary Areas:
 - Inspection and Maintenance Plans
 - EAP's
 - Safety Inspections
 - Engineering Assessments
 - Annual Certification
 - Accept equivalent reports (ie; Part 12 Reports, etc.)
- ▶ Some thoughts....
 - Not just a matter of jurisdictional hierarchy, as state has legitimate concerns and audiences to address.
 - Multiple set of eyes can be benefit.



Organizational Approach to Dam Safety Management



Structuring a Dam Safety Program

- ▶ Heightened awareness and requirements related to Dam Safety have required many in industry to reassess approach.
- ▶ Requires in depth analysis of:
 - Policies and Procedures
 - Organizational Structure
 - Hazard Classification Profile
 - Portfolio Diversification (types of dams, geographic, etc.)

Brookfield Case:

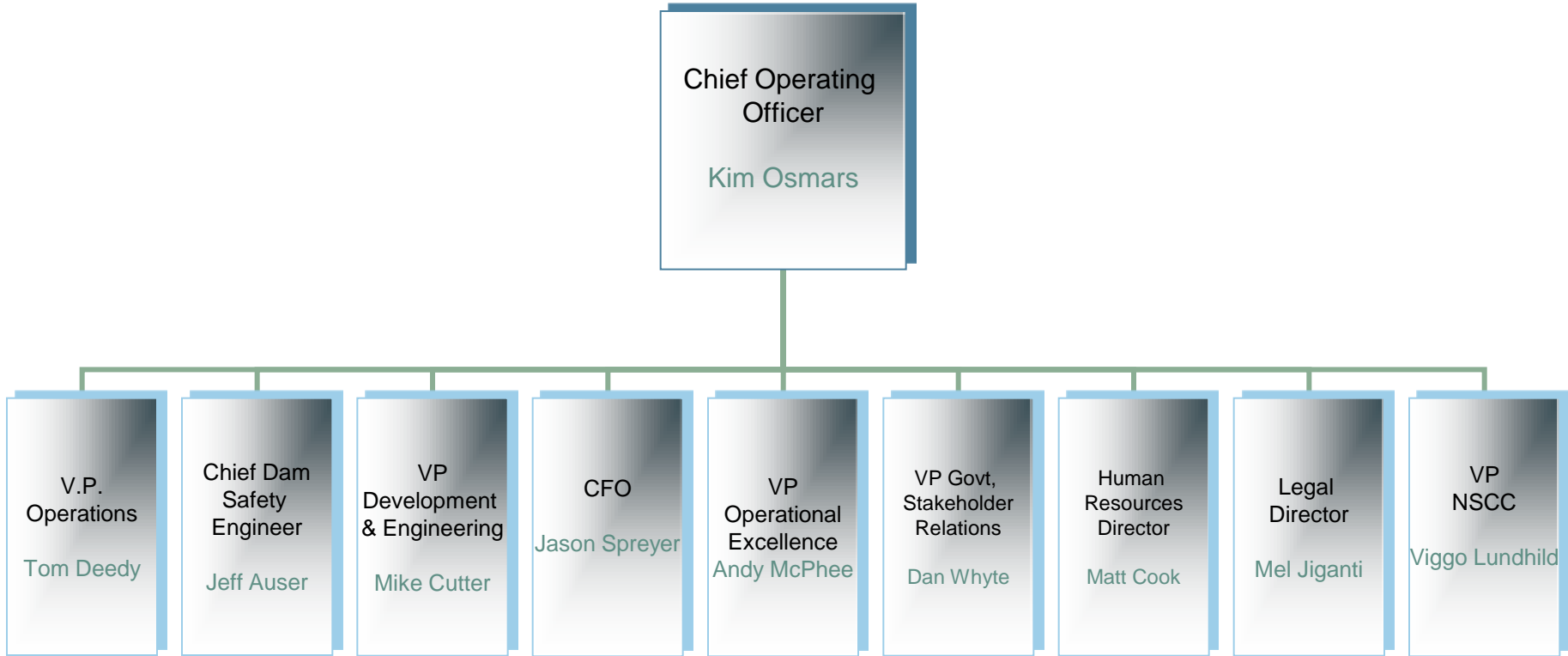
- ▶ Implementation of the Dam Safety Program has been, and continues to be, responsibility of everyone within operations with direct accountability to General Managers in Operation Centers.
- ▶ 154 Dams, 9 States, 25 River Systems.
- ▶ FERC's Self Assessment List.
- ▶ Need for a focused programmatic oversight role.



Structuring a Dam Safety Program

- ▶ Assessment resulted in addition of Chief Dam Safety Engineer position to:
 - Harmonize internal approaches;
 - Channel internal and external information related to needs, best practices, policies, etc.;
 - Support General Managers;
 - Be single point of contact for FERC and state officials on global corporate issues;
 - Participate as full member of senior management team, integrating dam safety into all aspects of planning and reporting.
 - Provide independent oversight of dam safety issues.
 - Review and approve proposed modifications to dams.

Structuring a Dam Safety Program - Organization





Thank You!