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January 23, 2008

VIA E-MAIL

Ms. Erica M. Hamilton, Commission Secretary and Registered Intervenors

**Re: British Columbia Transmission Corporation (BCTC)
Transmission System Capital Plan F2009 to F2018 – Project No. 3698492
Workshop on January 22, 2008 – Presentation Slides**

BCTC filed its Transmission System Capital Plan F2009-F2018 with the British Columbia Utilities Commission (the Commission) on December 21, 2007. The Commission subsequently issued Order No. G-173-07 establishing a Written Public Hearing and Regulatory Timetable.

BCTC's January 7, 2008 letter provided notice of its plans to hold a workshop for Commission staff and Registered Intervenors on Tuesday January 22, 2008 from 8:30 a.m. to approximately 12:30 p.m. at the Terasen Building (Georgia Room – Main Floor) at 1111 West Georgia, Vancouver, B.C. The purpose of the workshop was to provide an overview of the Transmission System Capital Plan F2009-F2018.

The Capital Plan Workshop was held as planned. Attached is a PDF copy of the presentation slides that were used during the workshop and the attendance list.

Sincerely,

Original signed by:

Marcel Reghelini
Director, Regulatory Affairs

Capital Plan Workshop

January 22, 2008

**Terasen Building
1111 West Georgia St.
Vancouver, BC
Georgia Room**

Workshop Objectives

1. Overview of BCTC's F2009 Capital Plan Application
2. Opportunity for face-to-face discussions
3. Provide clarification on information in the application

Feedback on the benefit and value of the workshop will be appreciated

Intervenor Workshop – Agenda

January 22, 2008 - 8:30 a.m. to 12:30 pm

- | | |
|----------------------------------|-----------------------------|
| 1. Opening Remarks | Laurie Gray |
| 2. Introductions and Purpose | Ajay Kumar |
| 3. Overview | Paul Choudhury/Randy Bourne |
| 4. Growth Portfolio (Section 5) | Don Gillespie |
| 5. Break | |
| 6. Sustain Portfolio (Section 6) | Larry Haffner |
| 7. BCTC Portfolio (Section 7) | Ebrahim Vaahedi |

After each presentation, 15 minutes will be allotted for discussion

Preview

1. This is a facilitated session and intended to be educational and interactive
2. Time is included for discussion, but we will need to follow agenda timing
3. Given time constraints, presentations will need to be high level
4. Discussion/questions do not need to be at a high level; however, it is suggested that questions be limited to clarification of the filed evidence
5. Please turn off all electronic devices - cell phones, blackberries, etc.



Transmission System Capital Plan F2009 to F2018 Capital Plan Workshop

Paul Choudhury
Manager
System Planning and
Performance Assessment
22 January 2008

Planning for the Future

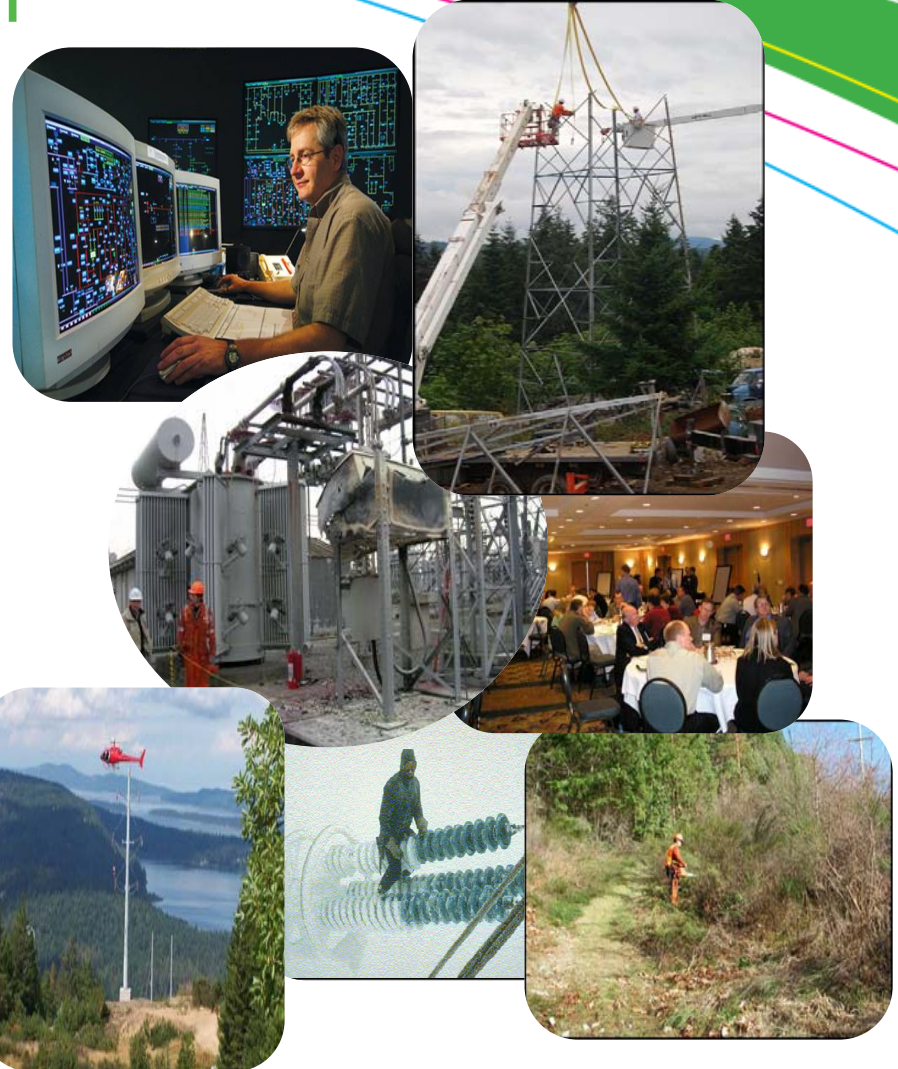


- **Reliable electricity is the backbone of today's modern economy**
- **Last major investments in transmission infrastructure occurred in the 1970's & 1980's, and parts of the existing system are reaching the limits of capacity**
- **A large portion of the existing infrastructure was constructed in the 1950's & 1960's; parts of the system are reaching end-of-life**
- **Transmission investment is required to meet growing demand and maintain reliability of the existing system**

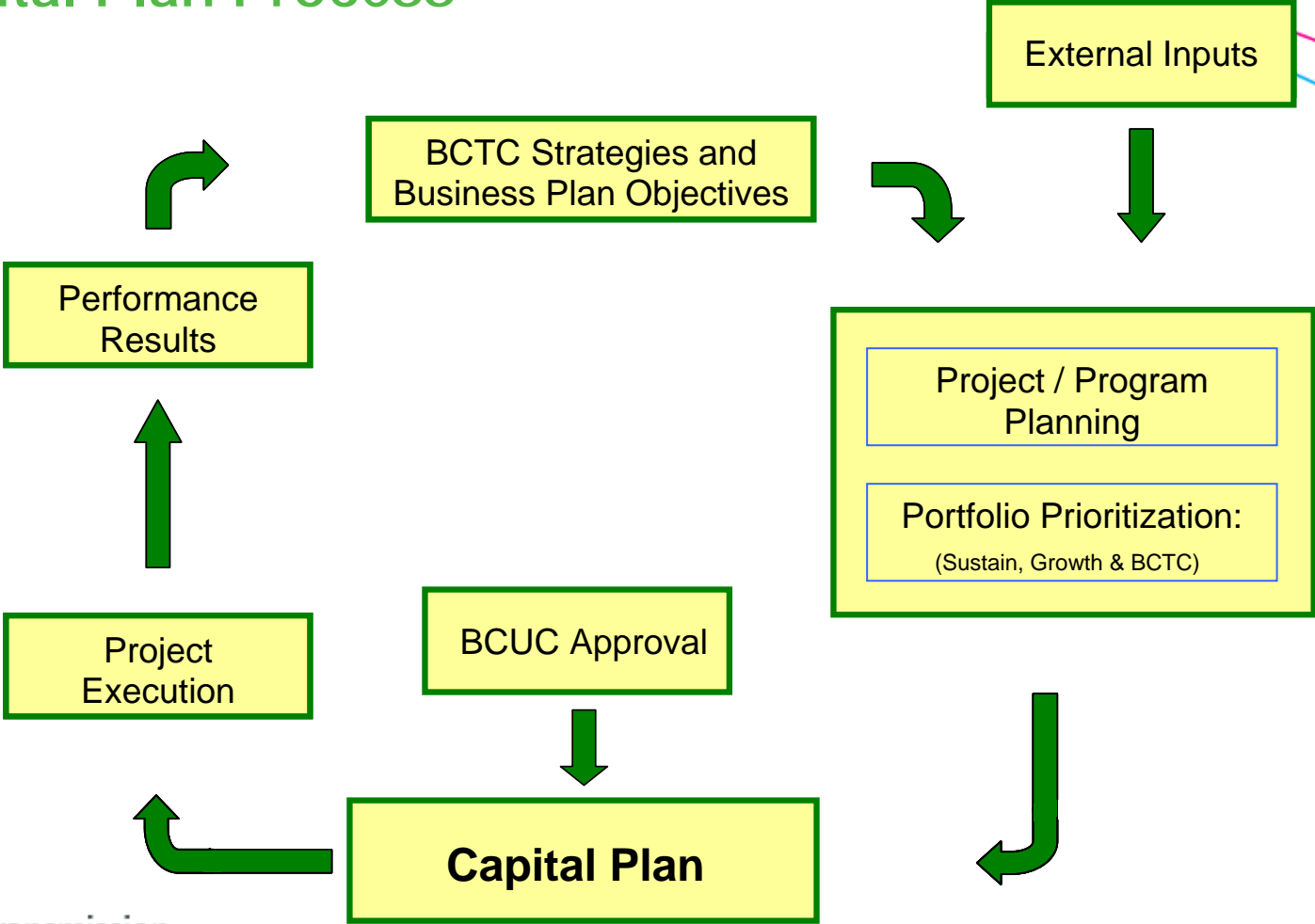
BC Transmission Corporation

Areas of Responsibility:

- Operation of the BC Hydro Transmission system - safety
- Transmission reliability
- Transmission planning
- Maintain/sustain the BC Hydro Transmission system & BCTC Control Centres
- Provision of Open Access Transmission Services



Capital Plan Process



Overview of Application

Provides a ten-year overview of future requirements and an analysis of the State of the Transmission System

Requests approval for:

- Projects starting in F2009 and definition funding for major projects
- Programs for F2009 and F2010
- Major projects identified in the plan, but BCTC will be seeking approval for these through the CPCN process

3 Key Portfolios: Growth, Sustain, BCTC

F2010 Capital Plan

- Move to bi-annual filing

Key Business Drivers

1. Meeting forecast load growth
2. Meeting BC Hydro Resource Plan requirements
3. Integrating new generation resources
4. Addressing aging infrastructure
5. Ensuring transmission safety and reliability
6. Capitalizing on opportunities afforded through the Transmission Expansion Policy
7. Responding to applicable codes and regulation
8. Responding to third party requests
9. Keeping control centres, offices, and tools efficient

BCTC's Capital Investment Program

Total 10 year investment: \$5.1 billion

Key Portfolios:

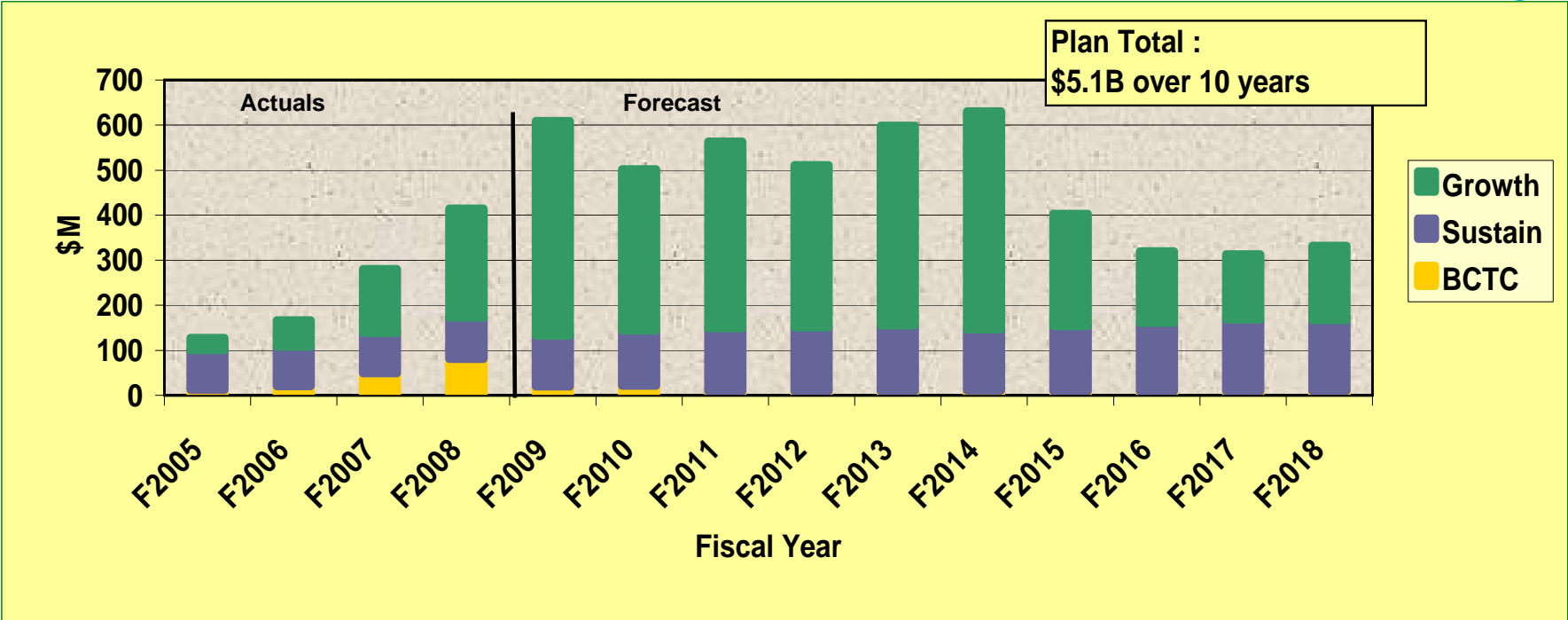
Growth: Meet increases in demand and customer requests for service (\$2.7b)

Sustain: Maintain the performance, safety and reliability of the existing transmission system (\$1.4b)

BCTC: Provide the technical and infrastructure requirements for control centres and business processes (\$0.1b)

Note: Plus an addition \$0.9b for Substation Distribution Assets

Capital Expenditures – History and Plan



Expenditures For Approval

Growth:

- \$51M
- Additional \$858M sought through CPCN Applications

Sustain:

- F2009: \$113M
- F2010: \$123M

BCTC:

- F2009: \$8.3M
- F2010: \$5M

Changes from F08 Capital Plan

	Particulars (\$ billions)	F2009 Capital Plan	F2008 Capital Plan	Increase (Decrease)	Reason for Change
1	Growth Portfolio	\$2.7	1.6	1.1	ILM cost increase (+\$0.3) Revised forecast of generation interconnection work (+\$0.7) Updated load forecast (+\$0.1)
2	Sustaining Portfolio	1.4	1.1	0.3	Asset demographics, downtown reliability, cost escalation
3	BCTC Capital Portfolio	0.1	0.2	(0.1)	
4	Total	4.2	2.9	1.3	
5	Add: SDA and Other	0.9	0.4	0.5	
6	Grand Total	\$5.1	\$3.2	\$1.8	

Impact on Transmission Revenue Requirement

F2008 Transmission Revenue Requirement (TRR) - \$ millions					517.9
Annual Impact - \$ millions	BC Hydro		BCTC	Total Change	Annual % Change
	Growth	Sustain			
	(a)	(b)	(c)	(d)	(e)
F2009	24.6	9.7	21.6	55.9	10.8%
F2010	32.0	8.6	(7.5)	33.1	5.8%
F2011	29.7	7.9	1.5	39.1	6.4%
F2012	30.4	5.2	1.4	37.0	5.7%
F2013	23.7	8.9	1.0	33.6	4.9%
F2014	20.4	11.0	(4.5)	26.9	3.8%
F2015	48.2	5.1	(0.7)	52.5	7.1%
F2016	33.8	6.8	(2.4)	38.2	4.8%
F2017	5.8	7.0	(1.5)	11.3	1.3%
F2018	5.6	8.7	(0.7)	13.7	1.6%
Cumulative TRR Change over 10 Years:	254.2	79.0	8.1	341.3	65.9%

Note 1 Numbers may not add due to rounding.

Note 2 () = reduction in revenue requirement.

2007 Energy Plan

Alignment with North American Standards

- Mandatory Reliability Standards

Long-term Outlook Report

- 20 year + planning horizon
- Show areas of planned system development
- Incorporate need identified through Congestion Relief Policy, Transmission Expansion Policy and Loss Reduction Strategy
- Incorporate the long-term requirements of extending life and maintaining performance of the existing infrastructure

FERC 890

New industry pro-forma tariff issued last year

Key elements:

- Standardized Available Transmission Capacity methodology
- Documentation of BCTC planning process including opportunities for customer and stakeholder input

Consultation and application to Commission expected later this year

Continuous Improvement

Asset Management – Sustain Portfolio

- Commissioned study by UMS to review and evaluate BCTC's Asset Management program
- Key findings include:
 - BCTC has done well at extending the useful life of its assets but should expect increasing costs over the next 10 years for asset replacement
 - Current levels of spending below average, given system age demographics

Continuous Improvement

Cost Estimation & Project Management

- Lessons learned (Fox Creek), UMS Study and Goto Sargent Report
- Opportunities to improve cost estimation and project management
- Recent improvements:
 - Clearly identify level of estimate accuracy at each stage (study, definition and approval)
 - Expanded definition phase to include more planning work and route selection for projects to ensure better defined scope and more accurate estimates
 - Expanded project completion reports

Major Risks & Uncertainties

- **Forecast uncertainty**
- **Cost escalation pertaining to material supply, equipment and construction labour**
- **Higher expectations for stakeholder and First Nations engagement**
- **Changing business and customer drivers (e.g., management of wind integration, configuration of new interconnections)**
- **Implications of key government initiatives – e.g., Energy Plan implementation**
- **Execution risk – availability of resources & equipment**

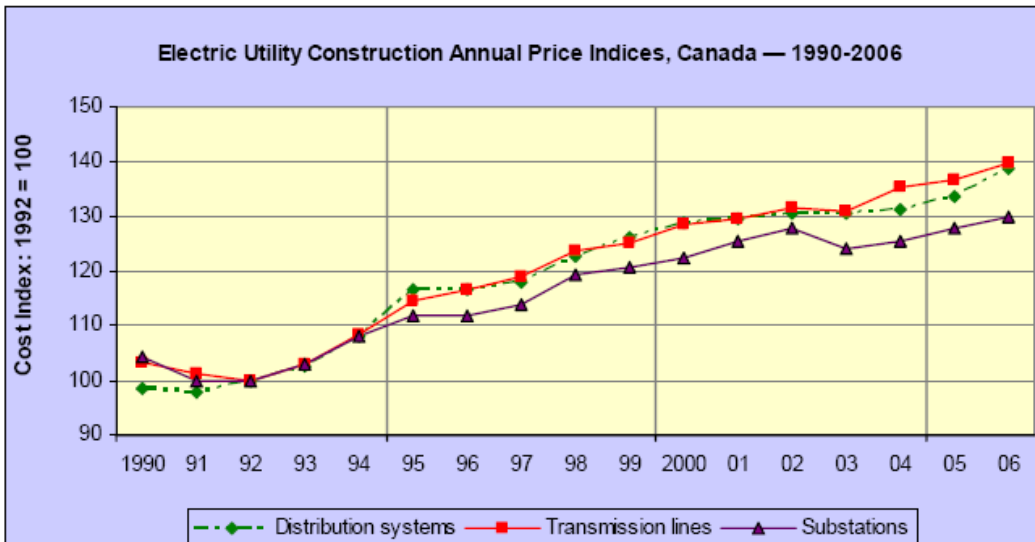
Execution Risks



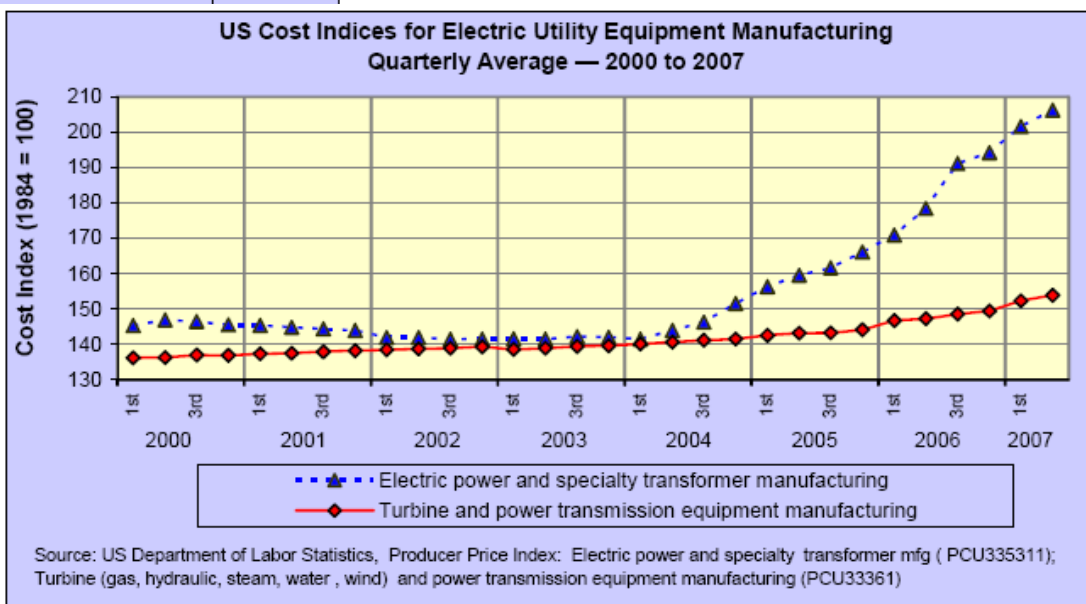
- Skill shortages
- Cost escalation
(e.g. inflation, construction escalation, equipment costs)
- Lead times for equipment delivery increasing
- Unplanned and emergency risks

BCTC has developed strategies to mitigate identified risks in executing Capital Plan

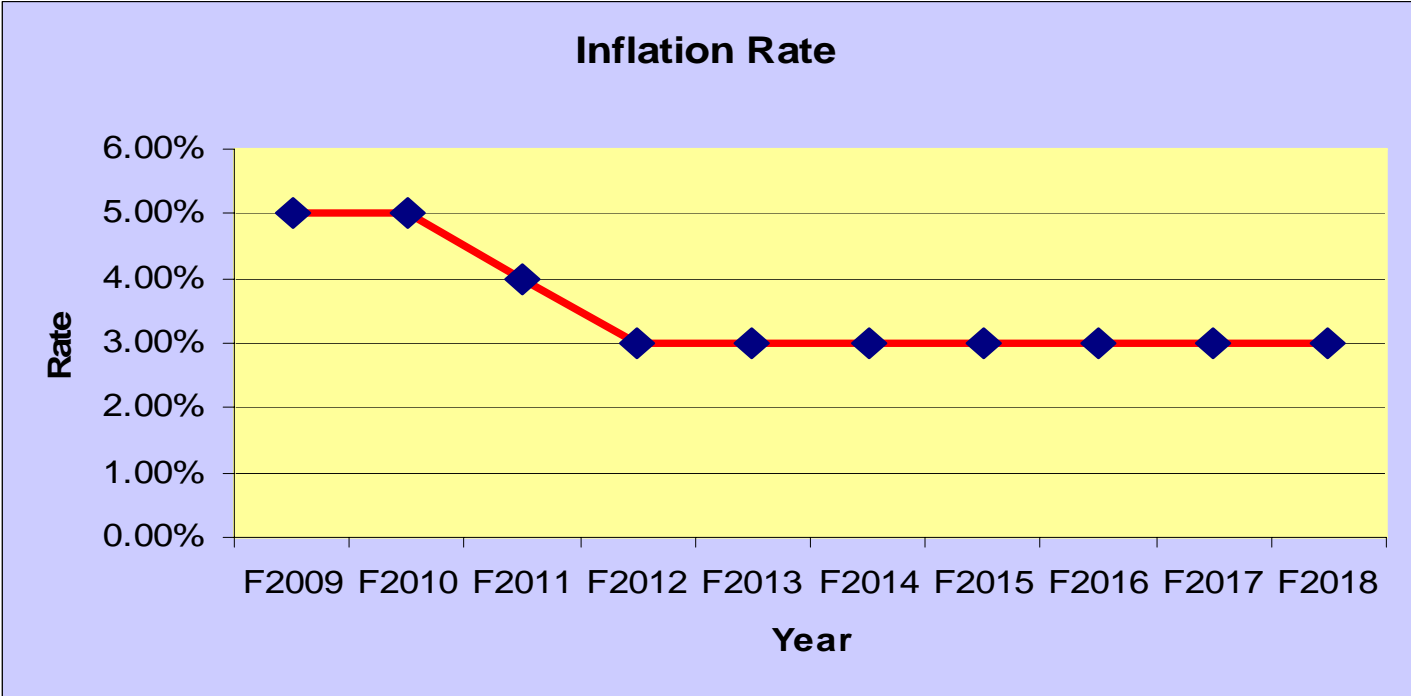
Cost Escalation



Sources: StatsCan: Table 327-001 - Electric utility construction price indexes



Inflation



Execution Challenges & Mitigation Strategies

Challenges

Engineering Resources

Material/Equipment Procurement

Construction Resources

Mitigation

SNC-Lavalin Contract

Contracts with 20 suppliers

Alternate Contracting Strategies

Procurement Strategies – Going Forward



- Select appropriate approach from a broad range of project delivery options and strategies for construction projects during definition stage
- The degree of risk transfer differs between options
 - Design-Bid-Build (e.g. Traditional) – look at bundling similar work
 - Construction Management at Risk (e.g. SCMP Control Centres)
 - Design-Build (e.g. Greenfield Substations and VITR Submarine Cable)
 - Design-Build-Finance-Maintain (P3 model)
 - Alliance Contracts (pre-qualified contractors)

Execution Challenges & Mitigation Strategies (cont'd)

Challenges

Adequate Program Management

Risk Management

Mitigation

Project Management Handbook

Contract Management Manual

Goto Sargent retained

Goto Sargent Report

- **Opportunities for improvement:**

- Risk Management
- Commercial Management
- Project Execution
- Planning and Estimating

- **Action Plan**

- Developed in conjunction with Major Supplier of Engineering Services (e.g., BC Hydro)
- Implementing risk screening criteria and risk management workshops for higher risk projects
- Skills training (e.g., Project Management, Risk Screening & Management)
- Process improvement (reporting, forecasting, scheduling, etc.)
- New Project Management tools



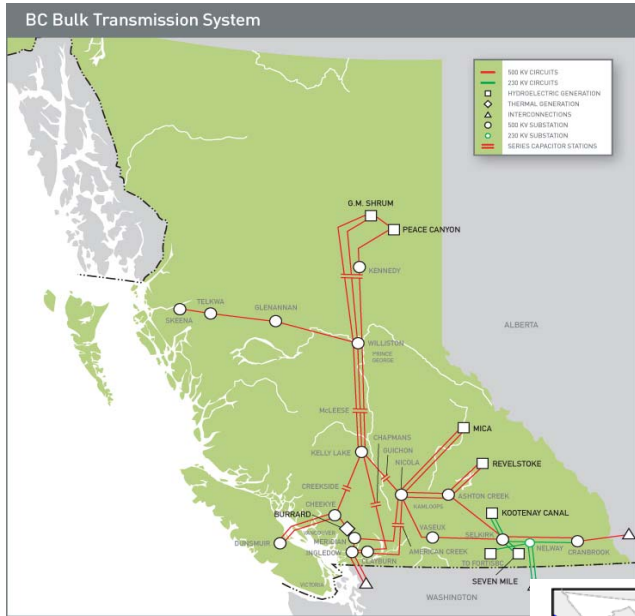
Discussion



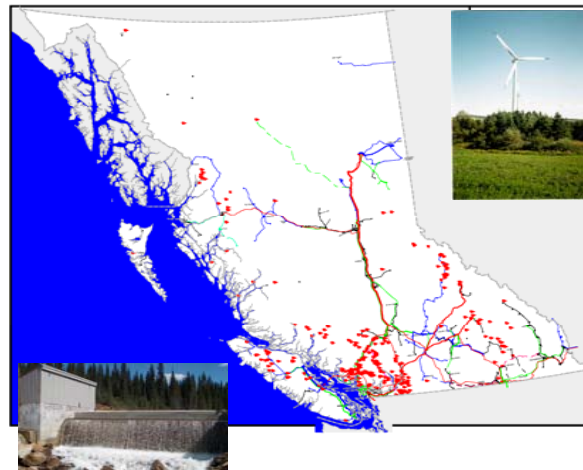
Growth Portfolio for Transmission System Capital Plan F2009 to F2018 Capital Plan Workshop

Don Gillespie
Manager, Transmission
System Planning
22 January 2008

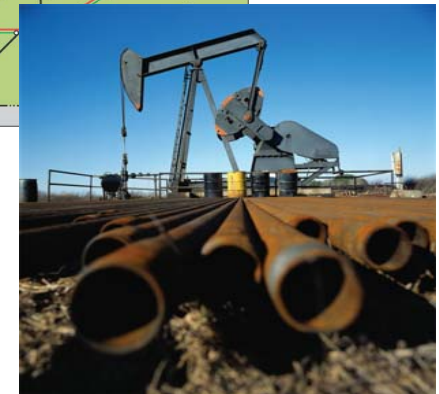
Area Reinforcements & Station Expansion/Modification



Bulk System Reinforcements



Generation Interconnections



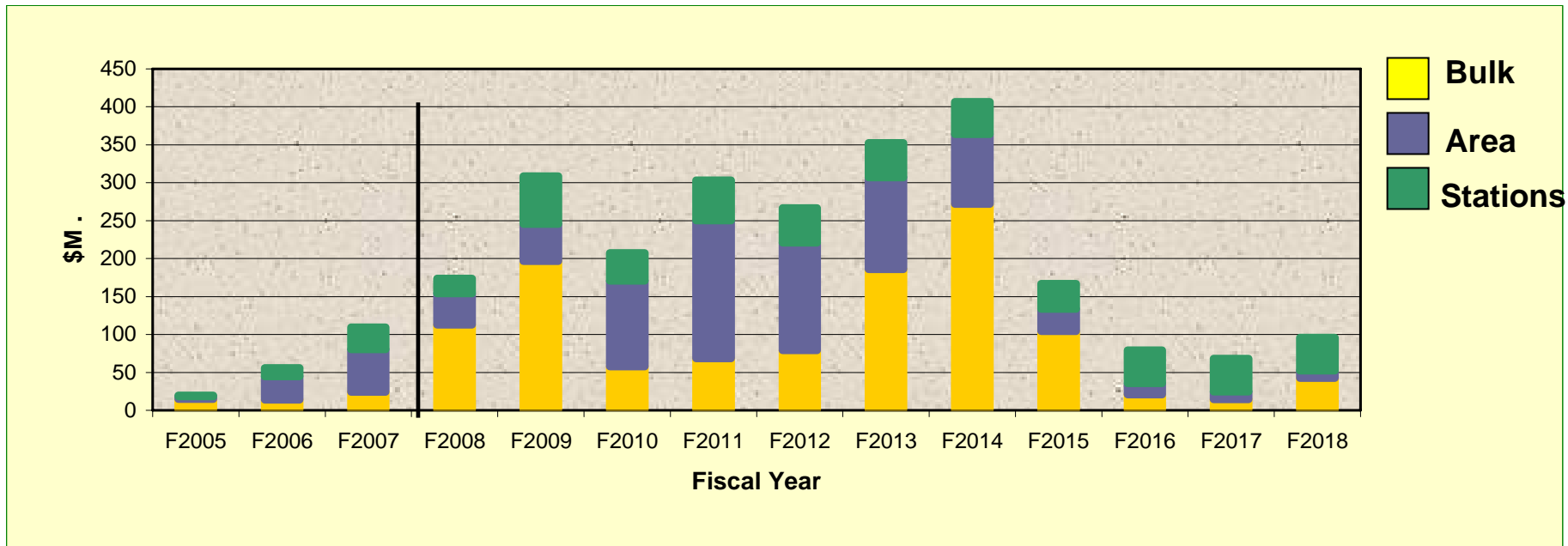
Load/Customer Interconnections

Growth Projects Financial Summary: F2009-F2018

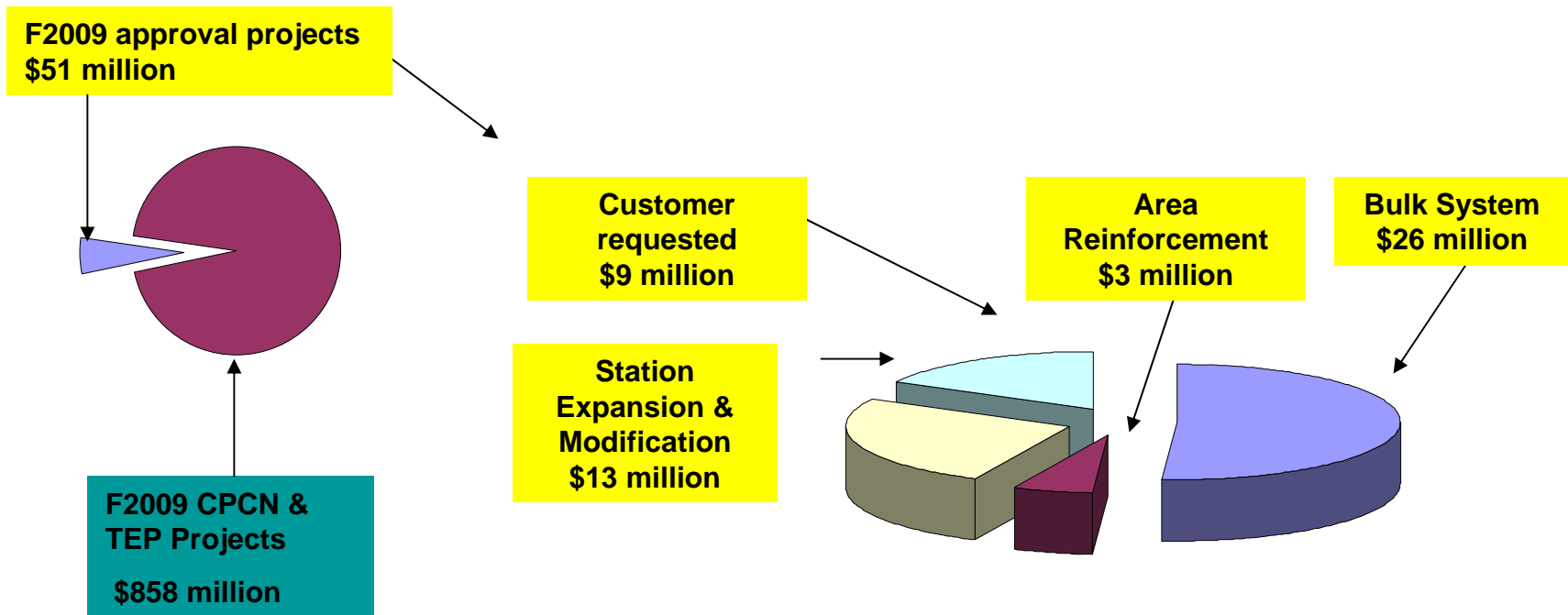
Total Growth Portfolio for 10 Years: \$2.7 billion

- Bulk System: \$1.040 billion
- Regional System: \$0.763 billion
- Station expansion and modification: \$0.449 billion
- Generation Interconnections: \$0.983 billion
- Customer requested: \$0.007 billion
- Less Substation Distribution Assets (SDA): \$0.533 billion

Growth Spending

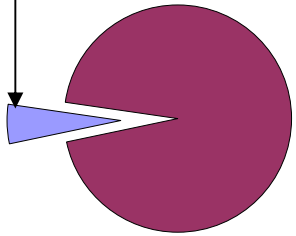


Projects Seeking Approval



CPCNs & TEP Projects

F2009 approval projects
\$51 million



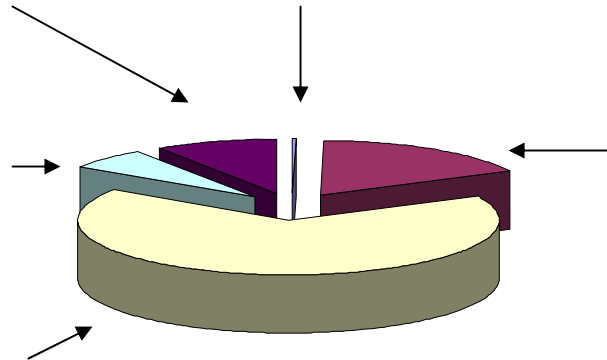
F2009 CPCN & TEP
Projects
\$858 million
(Implementation \$)

Central VI
reinforcement
\$82 million

SI Series
Compensation
\$53 million

ILM
reinforcement
\$602 million

5L51 & 5L52 upgrade
(TEP) \$3.3 million



Mount Pleasant Area
reinforcement
\$150 million

Basis of Growth Capital Plan

- BC Hydro's December 2006 System Load Forecast
- BC Hydro's July 2007 Distribution Substation Forecast
- Resource information from BC Hydro's Amended LTAP, Contingency Plans 1 & 2 (as filed with the Commission) and information contained in the Base Resource Plans with and without Burrard submitted to BCTC by BC Hydro in August 2007
- Generation & Customer Interconnections

Network Integrated Transmission Service (NITS)

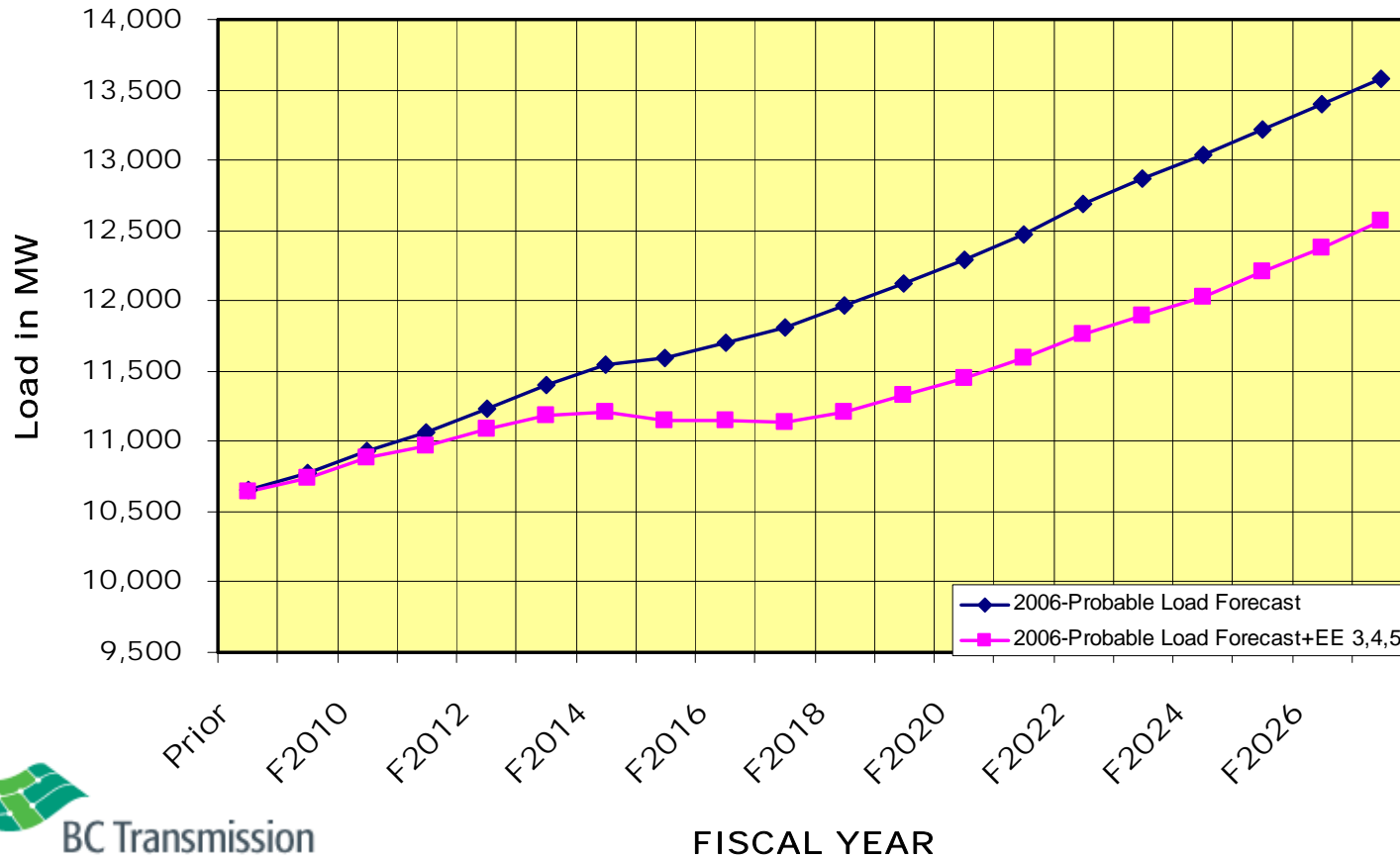
Currently 1 NITS customer in the province: BC Hydro

Primary driver for most of BCTC's Capital Plan:

- Bulk System Reinforcements (VITR, ILM, etc)
- Regional Reinforcement
- Generation Interconnections

20 Year System Load Forecast

2006 Load forecast

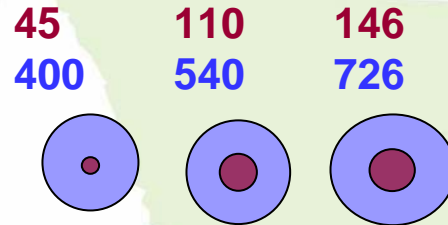


Resource Plans

- Load Growth less DSM in MW
- Dependable Generation (MW) Additions

BRP= Base Resource Plan

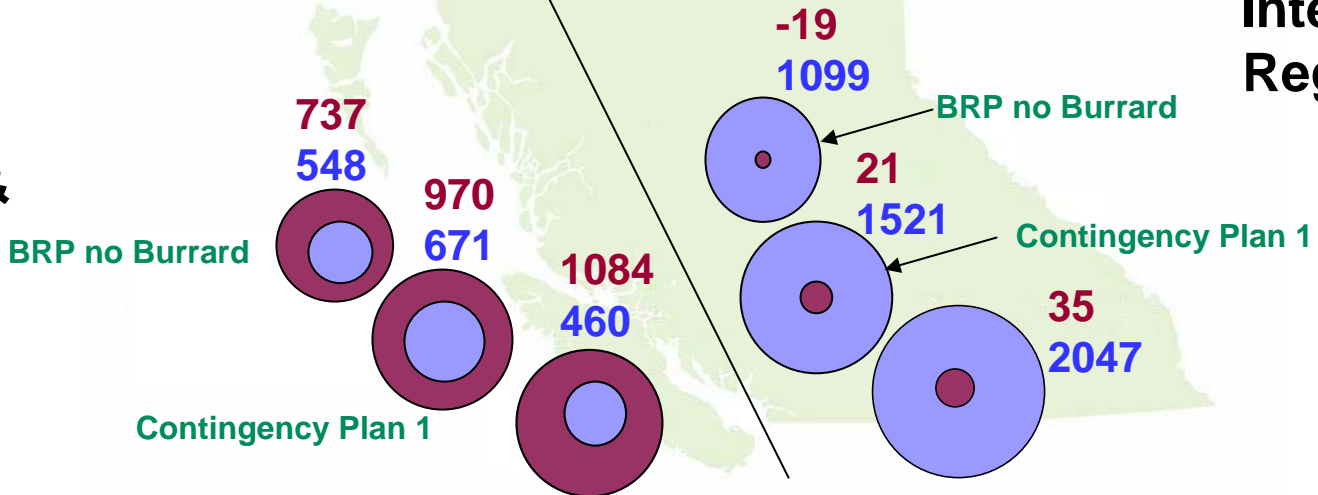
**Peace
Region**



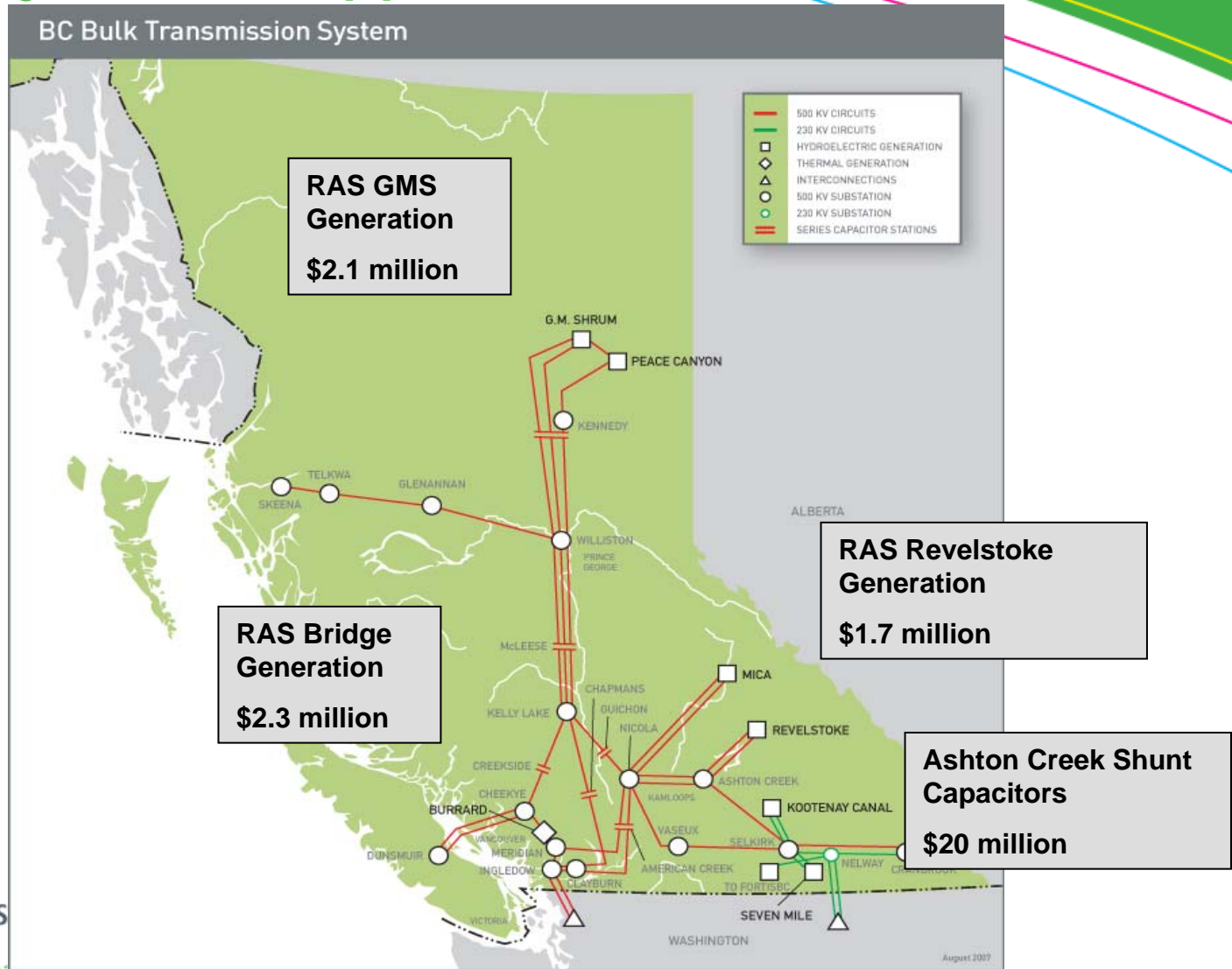
BRP no Burrard Contingency Plan 1 Contingency Plan 2

**South
Interior
Region**

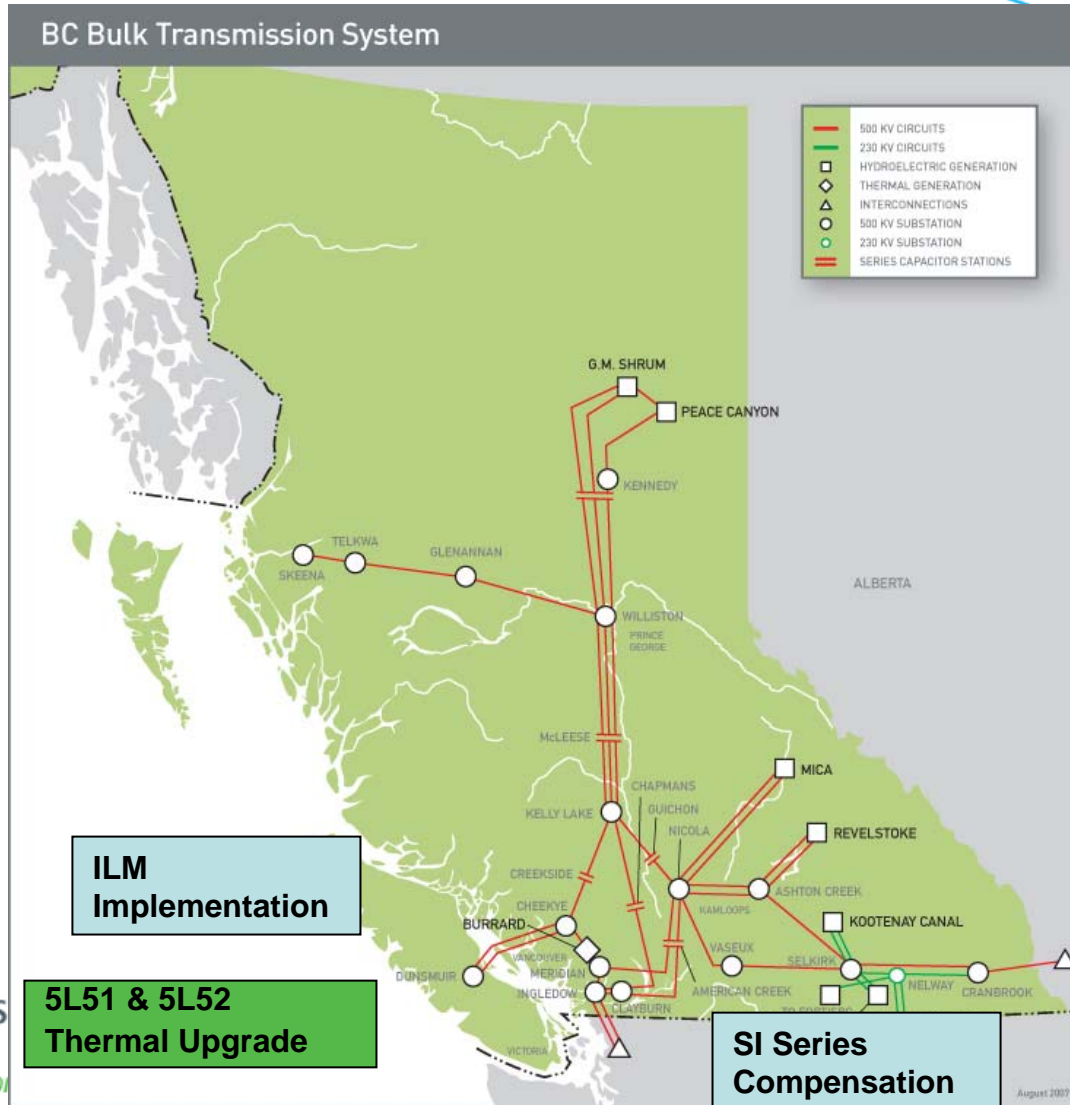
**Lower
Mainland &
VI Region**



Bulk Projects For Approval



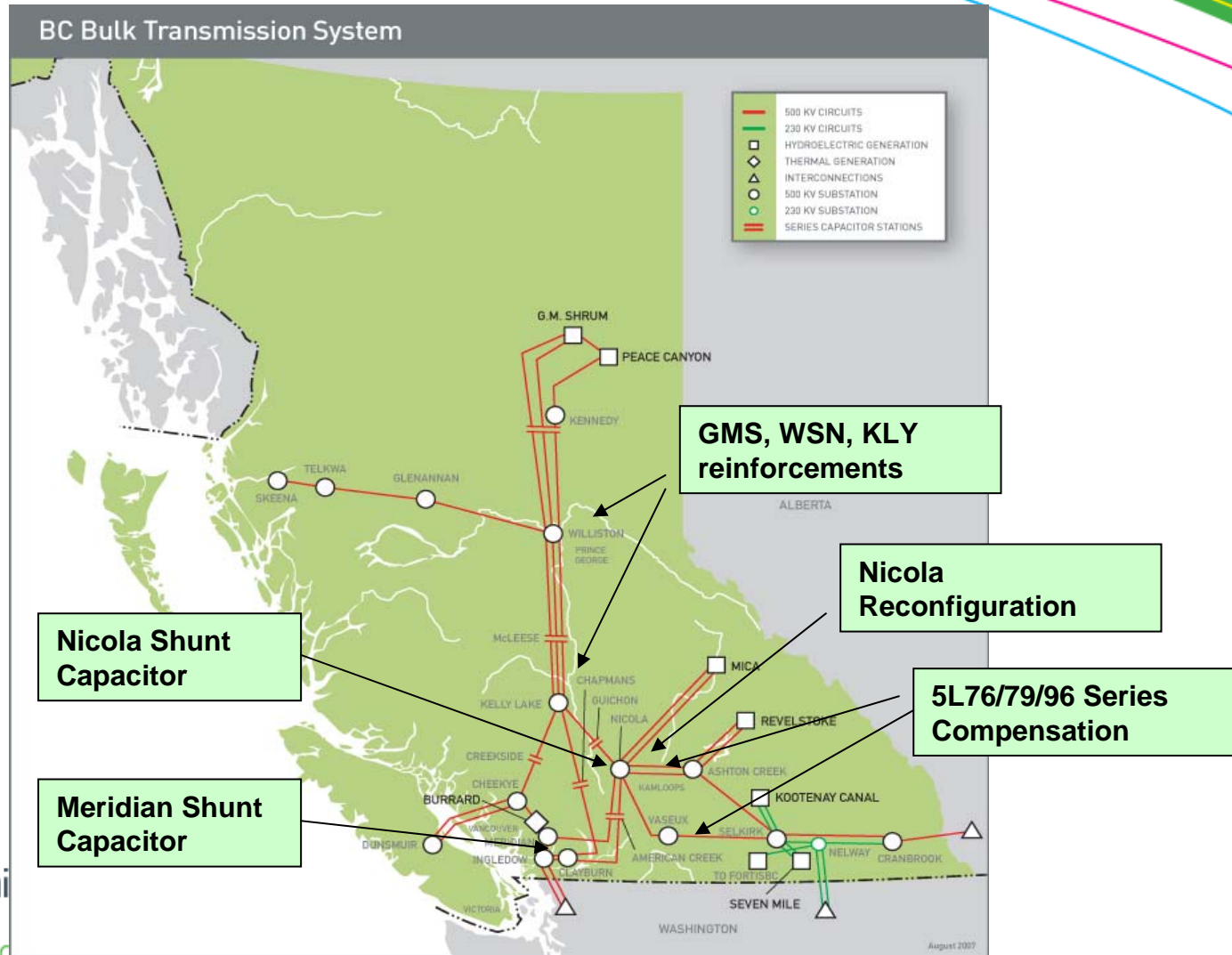
Bulk System CPCN & TEP Applications



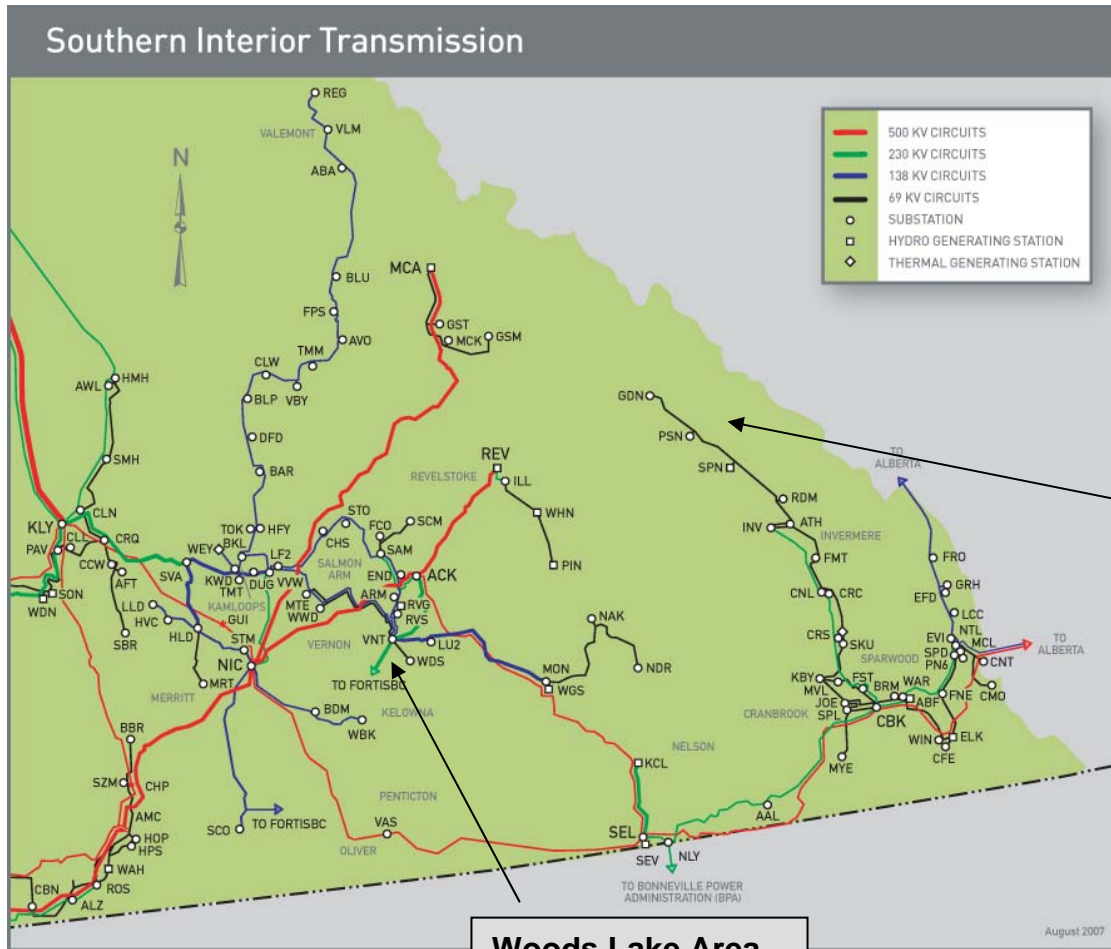
CPCN Applications

TEP Application

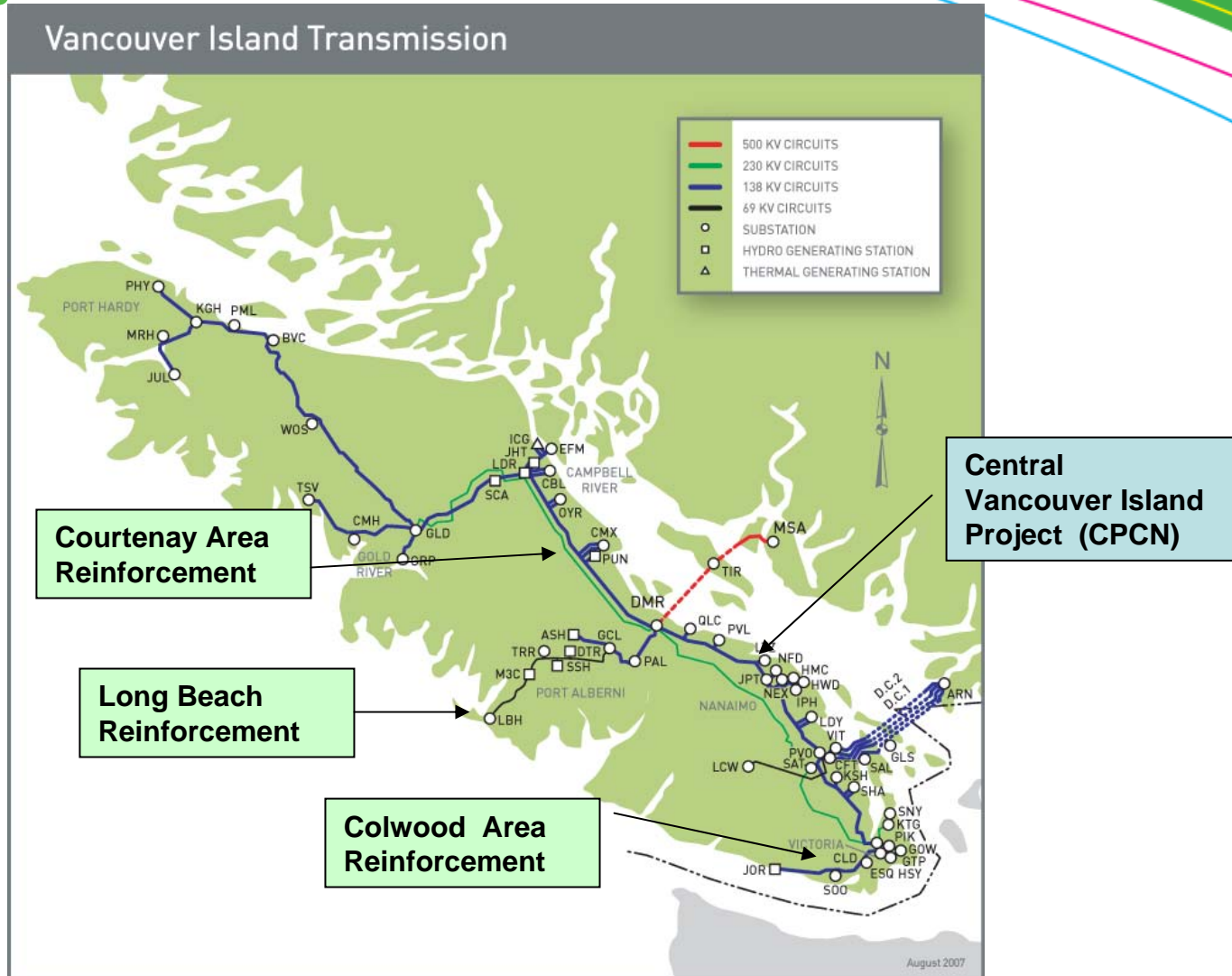
Future Projects - Bulk System



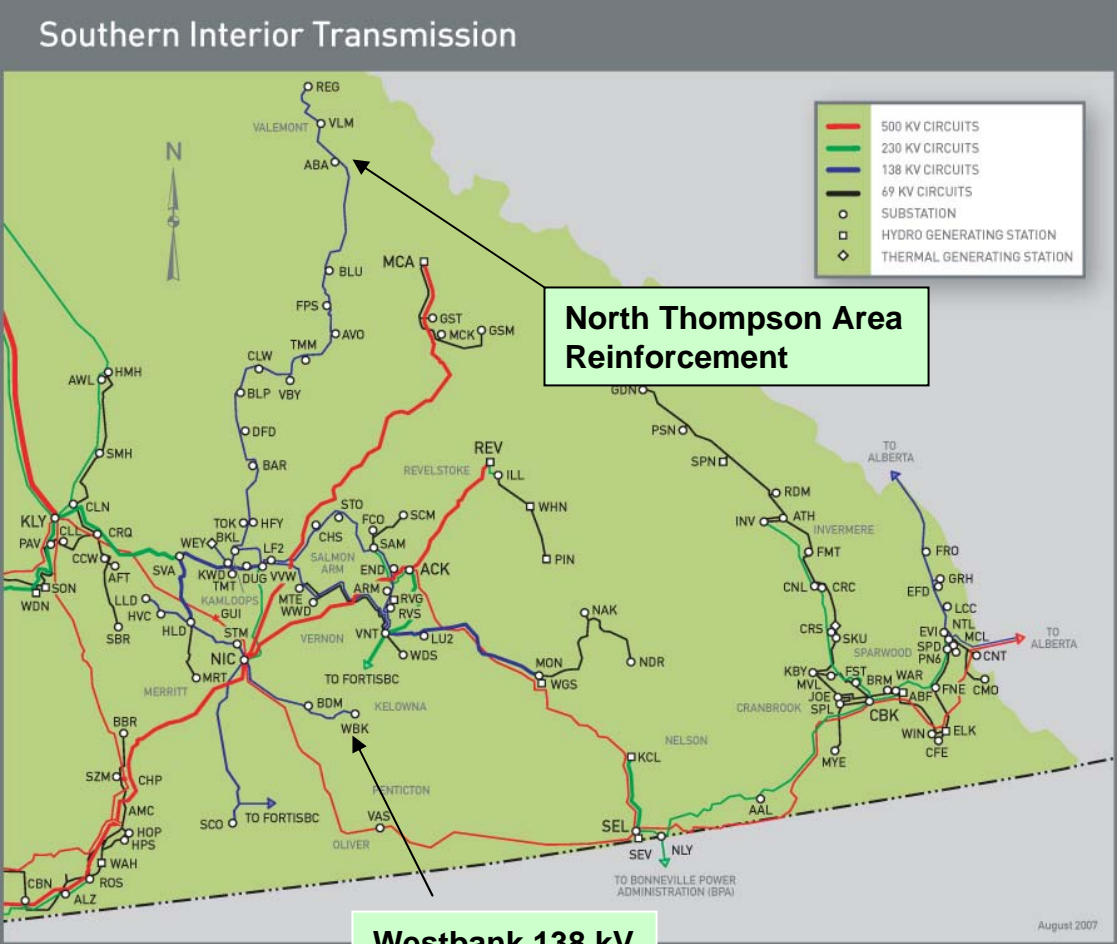
Regional System Projects for Approval



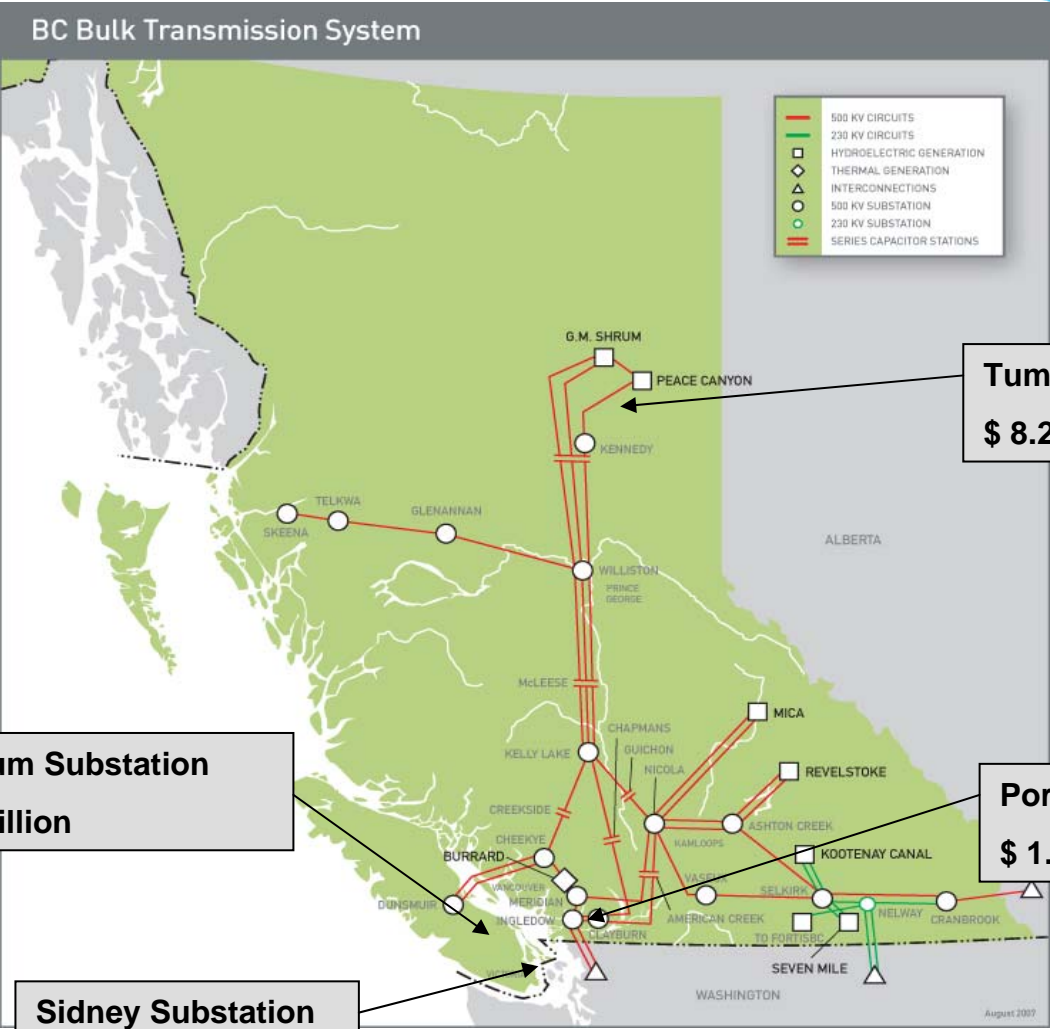
Future Projects Vancouver Island



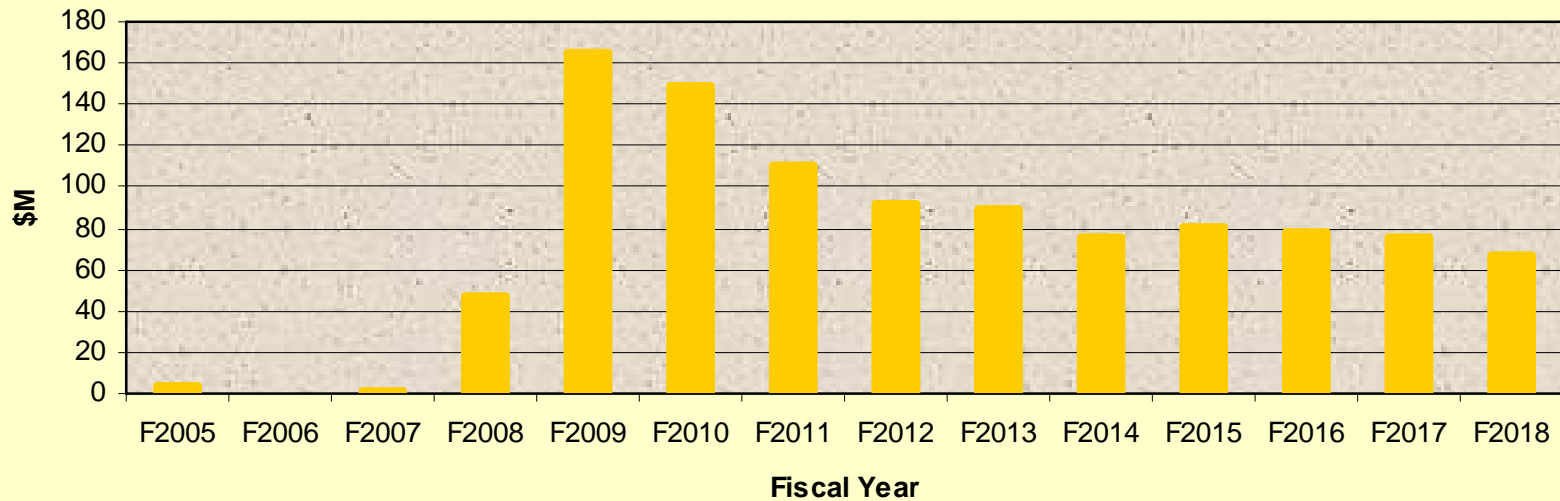
Future Projects South Interior



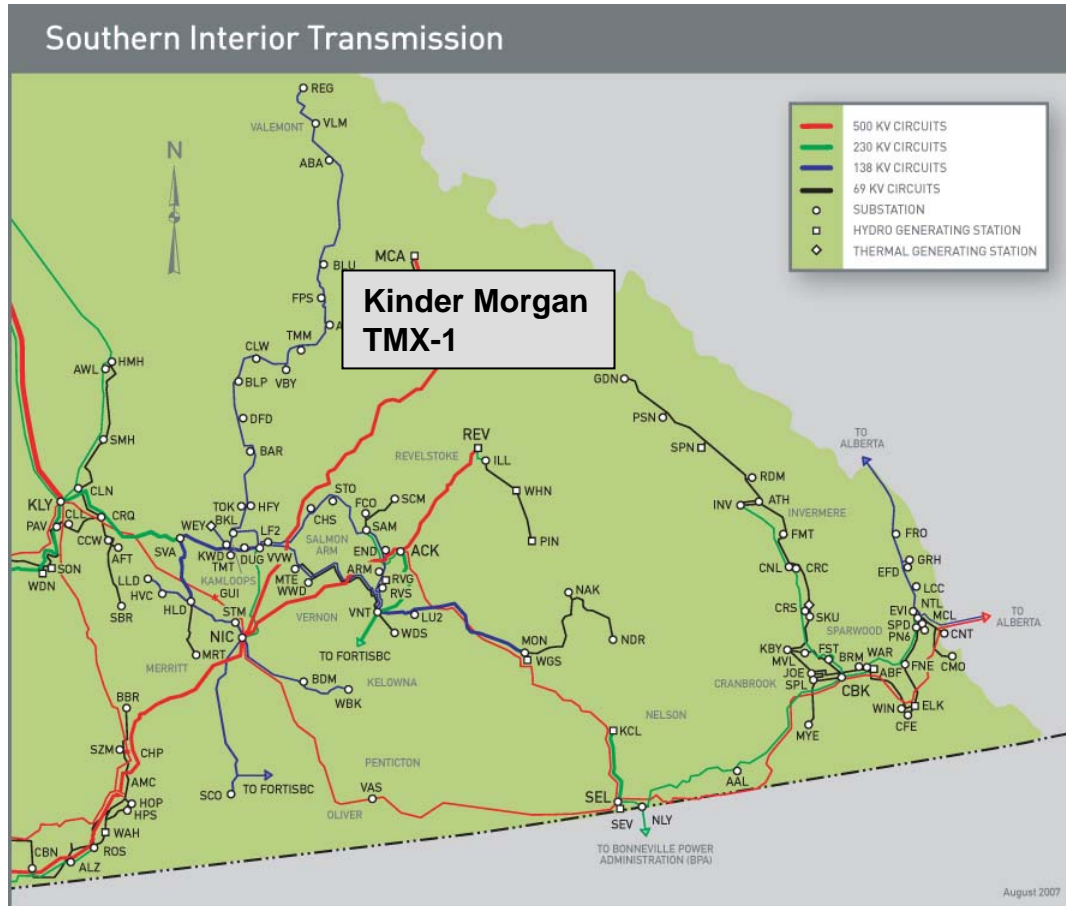
Station Expansion Projects for Approval



Interconnecting New Generation



Customer Requested Projects



Projects to avoid Generation Shedding

Ashton Creek 2 x 250 MVAR 500 kV Shunt Capacitors

- Generation shedding considered as a project alternative
- Considerations:
 - Generation shedding is not a preferred alternative to alleviate voltage stability limits after a single contingency due to the amount of real and reactive power lost leading to a less robust transmission system
 - Relies on neighbouring jurisdictions to supply BC's firm load during the period the generation is off-line
 - Does not provide sustained single contingency transfer capability.

Re-dispatch

Definition:

- The reduction of generation in one area and an increase in generation in another to avoid or defer transmission reinforcement

Example of a project that could be deferred through re-dispatch:

- Ashton Creek Shunt Capacitors

Re-dispatch in the context of IEP/LTAP/NITS

- Considers wide variety of transmission & generation options to determine a “preferred portfolio”
- Preferred option and dispatch provided¹ to BCTC by BCH



Discussion



Sustain Portfolio for Transmission System Capital Plan F2009 to F2018 Capital Plan Workshop

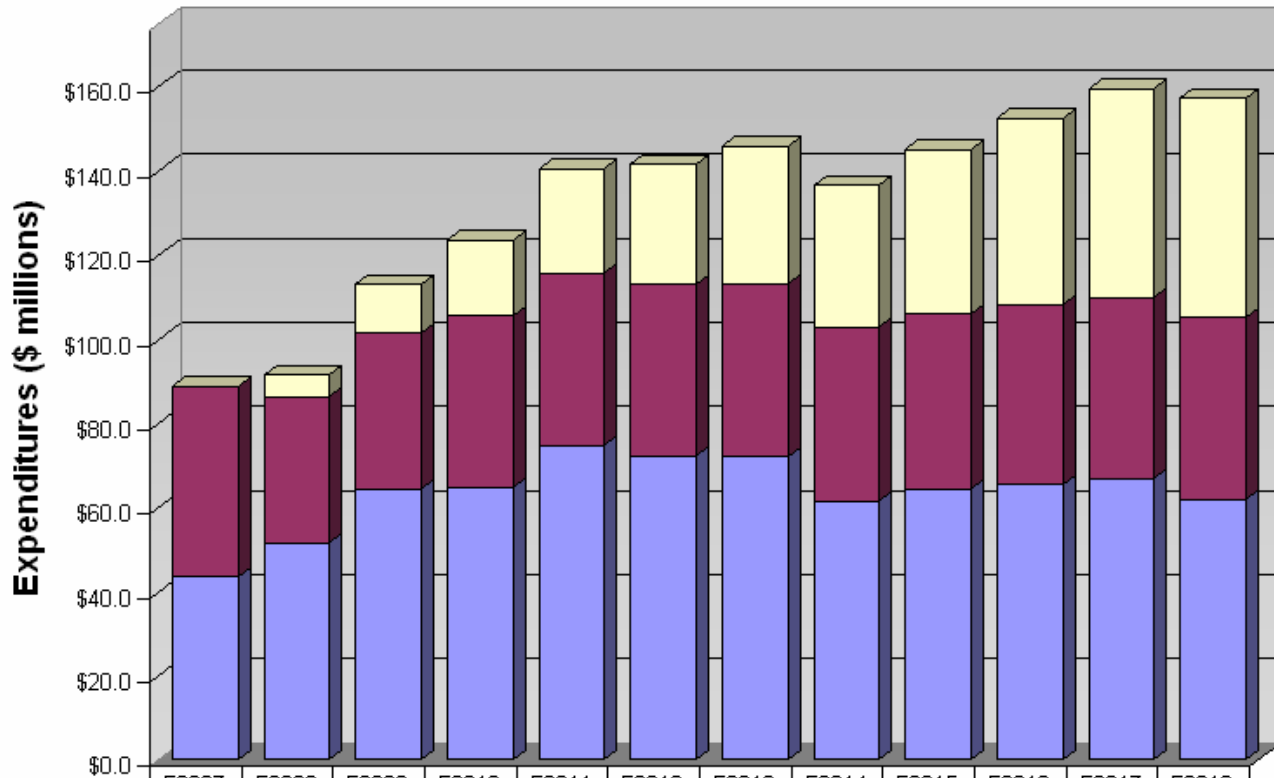
Larry Haffner
Manager
Asset Program Definition
22 January 2008

Portfolio Overview

- **Includes stations, transmission lines and right-of-way assets**
- **Focus on maintaining reliability and managing risk**
- **Key priorities in this Capital Plan include:**
 - Circuit Breaker Replacement
 - Risk Mitigation
 - Cathedral Square Fire Suppression
 - Murrin Seismic Stability
 - Overhead line risk mitigation

Sustaining Capital Plan

Historical Expenditures and Proposed 10-Year Plan (F2009-F2018)

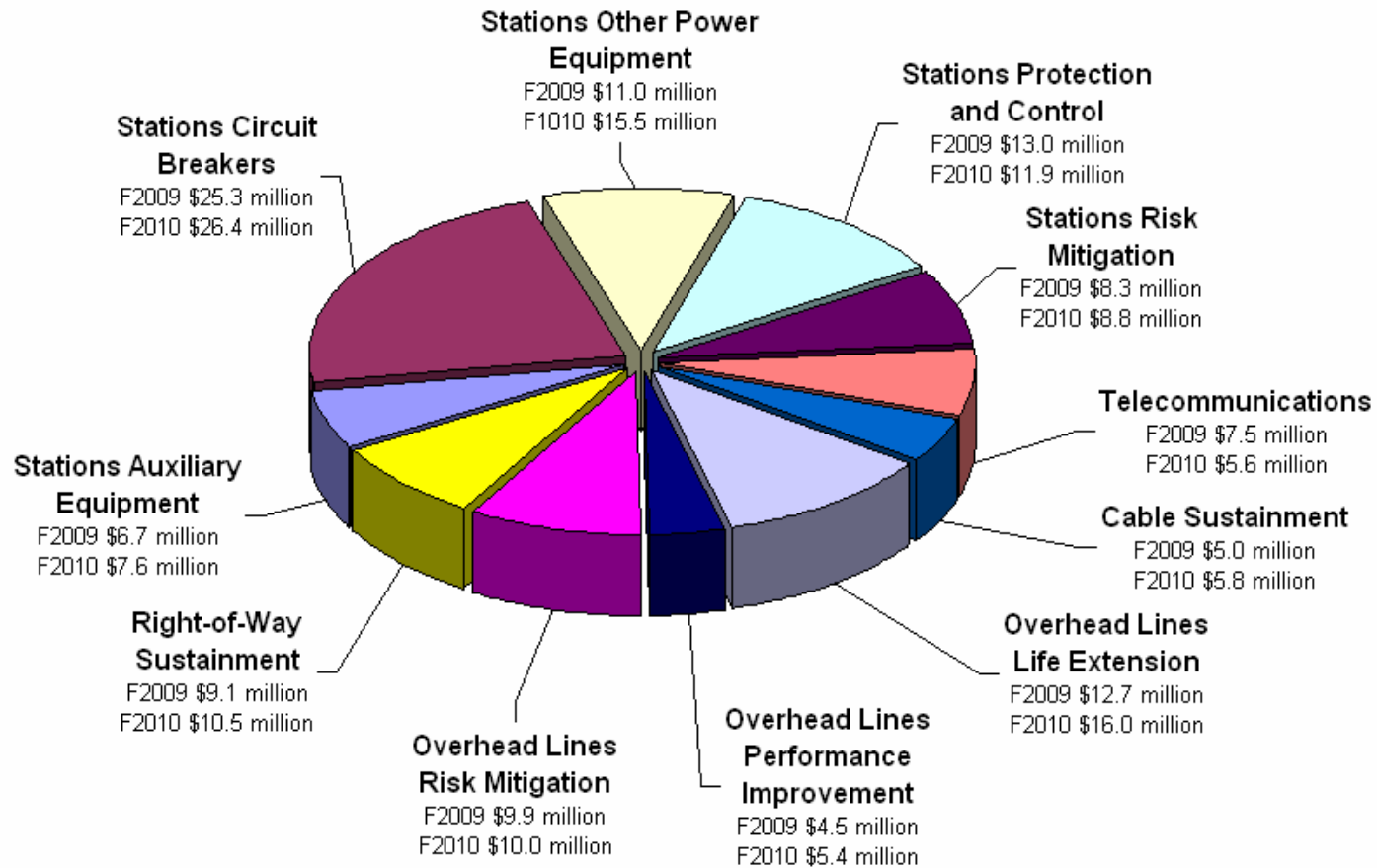


	F2007	F2008	F2009	F2010	F2011	F2012	F2013	F2014	F2015	F2016	F2017	F2018
Total F2007\$	\$88.8	\$91.5	\$112.9	\$123.4	\$140.4	\$141.5	\$145.8	\$136.5	\$145.0	\$152.4	\$159.4	\$157.1
□ Inflation	\$0.0	\$5.2	\$11.5	\$17.8	\$24.9	\$28.5	\$32.7	\$33.7	\$39.0	\$44.2	\$49.6	\$52.0
■ Lines F2007\$	\$45.3	\$34.7	\$37.0	\$40.8	\$40.9	\$40.9	\$41.1	\$41.3	\$41.7	\$42.9	\$43.1	\$43.3
■ Stations F2007\$	\$43.5	\$51.5	\$64.4	\$64.8	\$74.6	\$72.1	\$72.0	\$61.5	\$64.3	\$65.3	\$66.8	\$61.8

Fiscal Year

Sustaining Capital Portfolio

Distribution of Capital Expenditures by Program Area



Capital Plan - Drivers for Sustain Increases

- Asset demographic: investments required to manage asset end-of-life (e.g. circuit breakers, spacer dampers, corrosion protection for steel towers)
- Vancouver Area Reliability: Murrin substation reconfiguration and seismic upgrade
- Safety & Fire Risk Reduction: Cathedral Square
- Substation Distribution Assets: Asset demographic, safety upgrades and support of BC Hydro DSM programs.

Sustaining Capital Portfolio

Explanation of changes in F2009/10 Sustaining Capital Plan

The following capital projects represent the significant increases to the Sustaining Capital Plan in F2009/10:

Project Name	Incremental Capital Increase (\$ millions)		Key issues required to be addressed:
	F2009	F2010	
500 kV and 230 kV Air-Blast Circuit Breaker Replacement	\$6.0	\$4.5	<ul style="list-style-type: none"> Increased number of assets at end-of-life condition that need to be replaced by 2014
Cathedral Square CO ₂ System Removal and 2L31/32 Line Termination Relocation	\$3.7	\$2.7	<ul style="list-style-type: none"> Unacceptable life-safety and system reliability risks related to CO₂ based Fire Suppression System and fire/explosion hazards
Protection and Control Replacements	\$2.5	n/a	<ul style="list-style-type: none"> Replacement of defective substation control equipment (e.g. PLC984 Replacement)
Chapman's Capacitor Station – Fibre Optic Cable Replacement	\$1.5	n/a	<ul style="list-style-type: none"> Replacement of fibre optic cable at end-of-life to ensure continued operation of capacitor switching station needed to maintain transmission line rating
Cable Stop Joint Explosion Protection and Monitoring	\$1.8	\$1.8	<ul style="list-style-type: none"> Need to mitigate unacceptable fire/explosion risks in stop-joint cable vaults
Overhead Lines Risk Mitigation – Seismic Withstand	\$1.0	\$1.1	<ul style="list-style-type: none"> Need to mitigate unacceptable seismic risks on transmission towers

Objectives

Safety

- BCTC places a high priority on employee, worker & public safety
- Our safety programs are designed to improve safety and remedy situations that could escalate into a serious hazard

System Reliability

- A reliable transmission system is the backbone of the BC economy
- BCTC puts a high priority on projects that ensure a reliable system
- Examples of recent programs include bonding pole top insulators to avoid fires, replace failing circuit breakers to avoid system interruptions, etc



Objectives

Financial

- BCTC designs its sustain programs to minimize rate impacts to customers and avoid sudden and/or unexpected work/expenses
- Use a total life-cycle approach basis to evaluate options such as refurbish vs. replacement
- Example: Chapman Series Capacitor Station Fibre Optic Replacement Project

Environment

- BCTC is committed to minimizing the environmental impact of the transmission system
- Complies with current and emerging environmental standards
- Examples include oil containment, SF6 reduction

BCTC's Asset Management Strategy

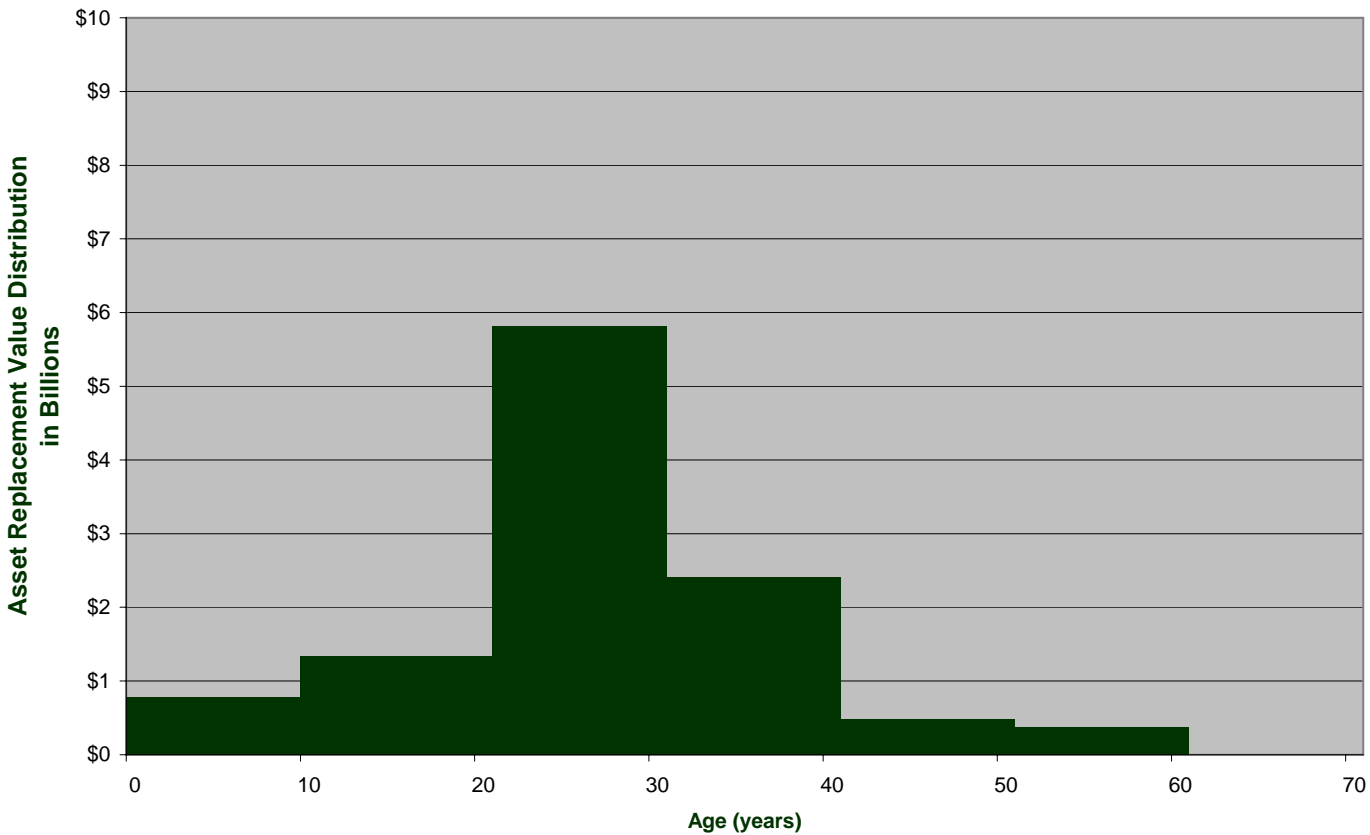
- **BCTC's Strategic Asset Management strategy:**
 - Asset Health Index – performance & condition based
 - Industry leading tools & methodologies
 - Closely coordinated with Growth portfolio
 - Continual Improvement



Long-term Sustainment Investment Model

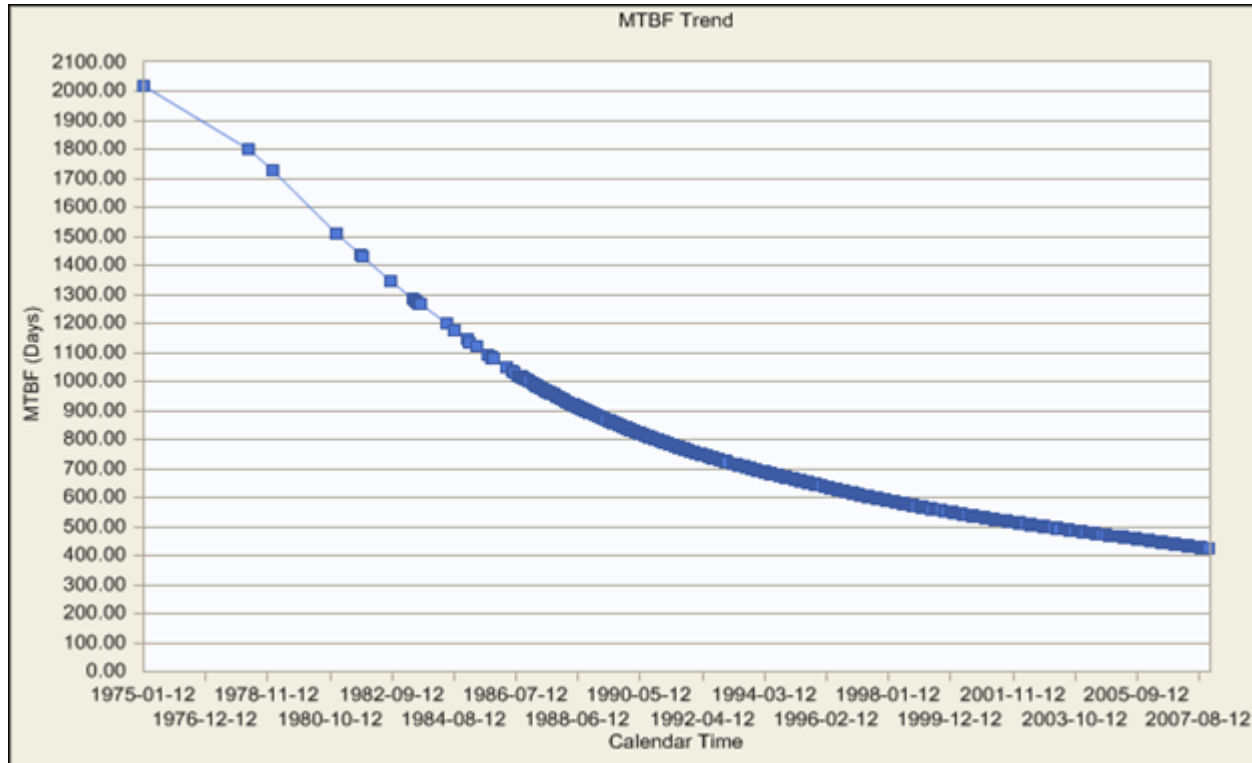
- The average age of the transmission system is approximately 30 years
- BCTC tracks 33 equipment categories and has developed expected life curves for all significant asset classes
- Average life varies significantly for different types of equipment:
 - Batteries: 20 years
 - Underground Transmission Cables: 30 years
 - Circuit Breakers: 40 years
 - Transformers: 70 years
 - Transmission Towers: 90 years
 - Overhead Transmission Conductors: up to 100 years

Asset Demographics



Mean-Time-Between-Failure

(All 500kV Circuit Breakers)



Deteriorating asset condition and performance suggest that the current Sustaining Capital funding level is not adequate to ensure the safe, reliable operation of the transmission system.

UMS Study

In 2007, BCTC contracted UMS to evaluate BCTC's Asset Management Strategy

Key findings:

- BCTC's system performance is good and is reflective of solid work being done by BCTC in managing assets and making sound investment decisions
- BCTC has continuously improved upon its Asset Management capabilities

UMS Study – Key Findings (con't)

- BCTC has seen a steady rise in its asset related spending, which suggests that in earlier years... spending may have been below the expected normal range for a comparable transmission system
- It is reasonable to expect BCTC's capital costs will rise at a higher rate than some of its peers who maintained consistent spending levels over the life-cycle of their assets
- BCTC's rate of re-investment is below that of other comparable utility companies i.e. National Grid UK, American Electric Power and Arizona Public Service

UMS Study

Recommendations:

- Continue towards evolution of a “one asset” view
- Develop a strategy and comprehensive plan to address the end of life replacement wave on the horizon
- Improve performance management systems and reporting beyond existing asset performance to include, for example, contractor performance

Risk Management



Purpose: To manage external hazards and risks to the transmission system

- **Natural Risks:** Seismic, snow creep, ice storms, fire, earthquake
- **Operational & Maintenance Risks:** Risks associated with equipment performance – e.g. reliability, safety & environmental

Program highlights:

- **Station:** Cathedral Square Fire Suppression, Murrin Seismic Upgrade, theft prevention
- **Transmission Circuits:** Seismic, Storm & Ice Mitigation



Sustaining Capital Portfolio

Future Years Capital Program Highlights

The following capital projects represent forecasted significant investments in future years:

- Risk Mitigation
 - Ice hazard reduction
- Circuit Breakers
 - Air-blast Circuit Breaker Replacements (by 2014)
- Cables Sustainment
 - Anticipated future cable refurbishment/replacement
- Overhead Lines Life Extension
 - Spacer-Damper and Insulator Replacements
 - Wood Pole Replacement and Corrosion Protection





Discussion



BCTC Capital Portfolio for Transmission System Capital Plan F2009 to F2018 Capital Plan Workshop

Ebrahim Vaahedi
Chief Technology Officer
22 January 2008

BCTC Capital Portfolio



1. Control Centre Technologies

- Technologies used within control centers
- Facilities

2. Information Technology

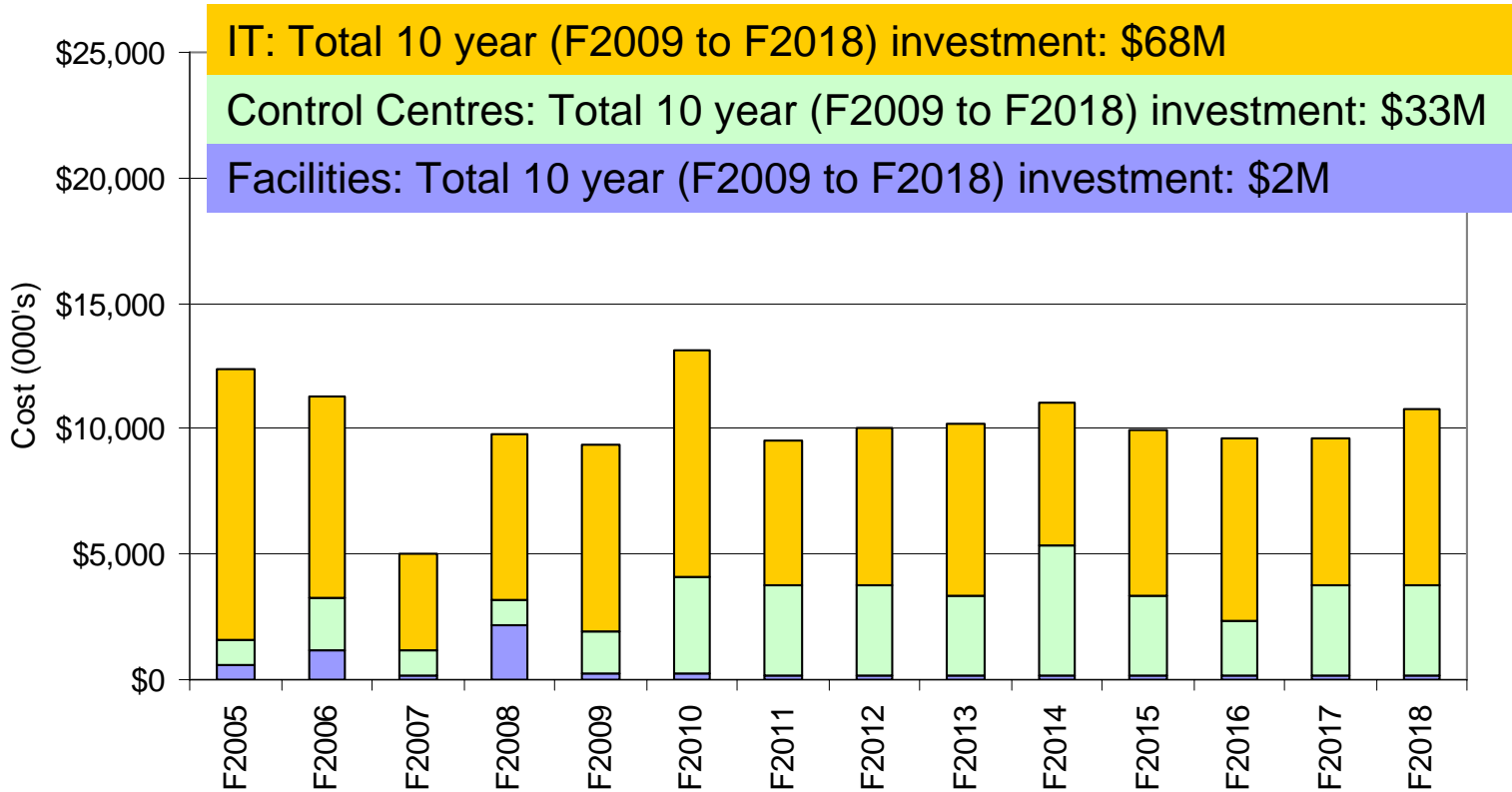
- Enterprise IT systems
- Business systems

3. Facilities

- Head office facilities

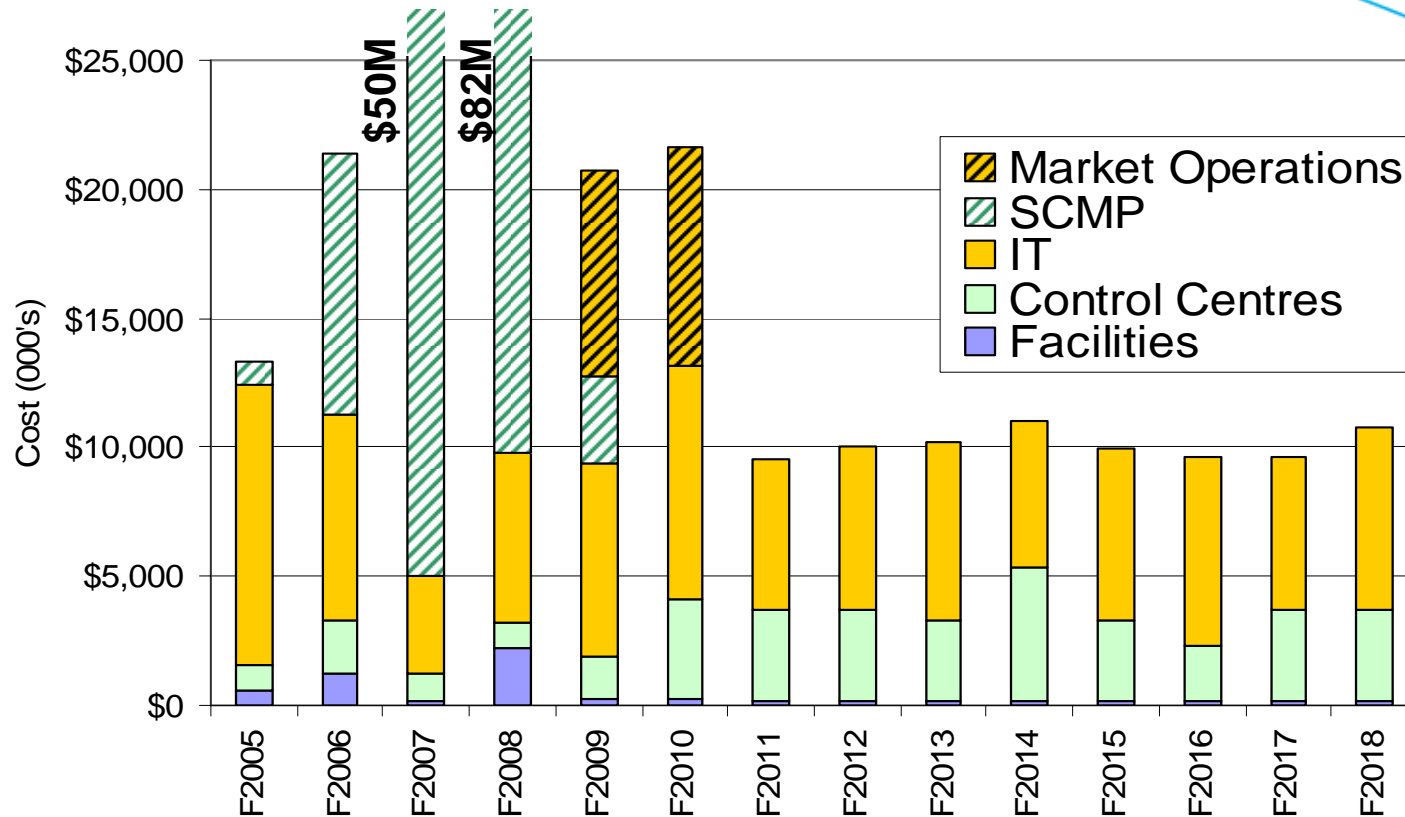
BCTC Portfolio consists of 3 major Asset Groups

Portfolio Trends



BCTC Portfolio trend is relatively flat

Portfolio Trends

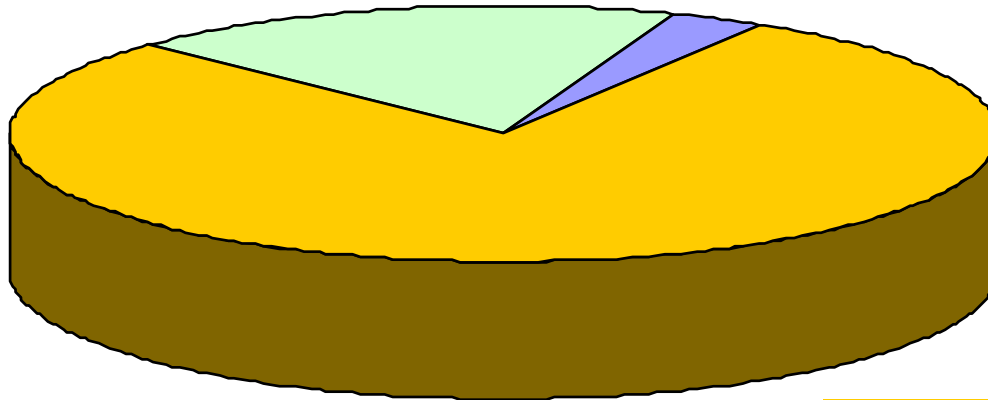


Following the completion of 2 major initiatives, BCTC portfolio is projected to be flat

Projects for Approval

Control Centre Technologies
\$2.5M

Facilities
\$0.4M



Information Technology
\$10.5M

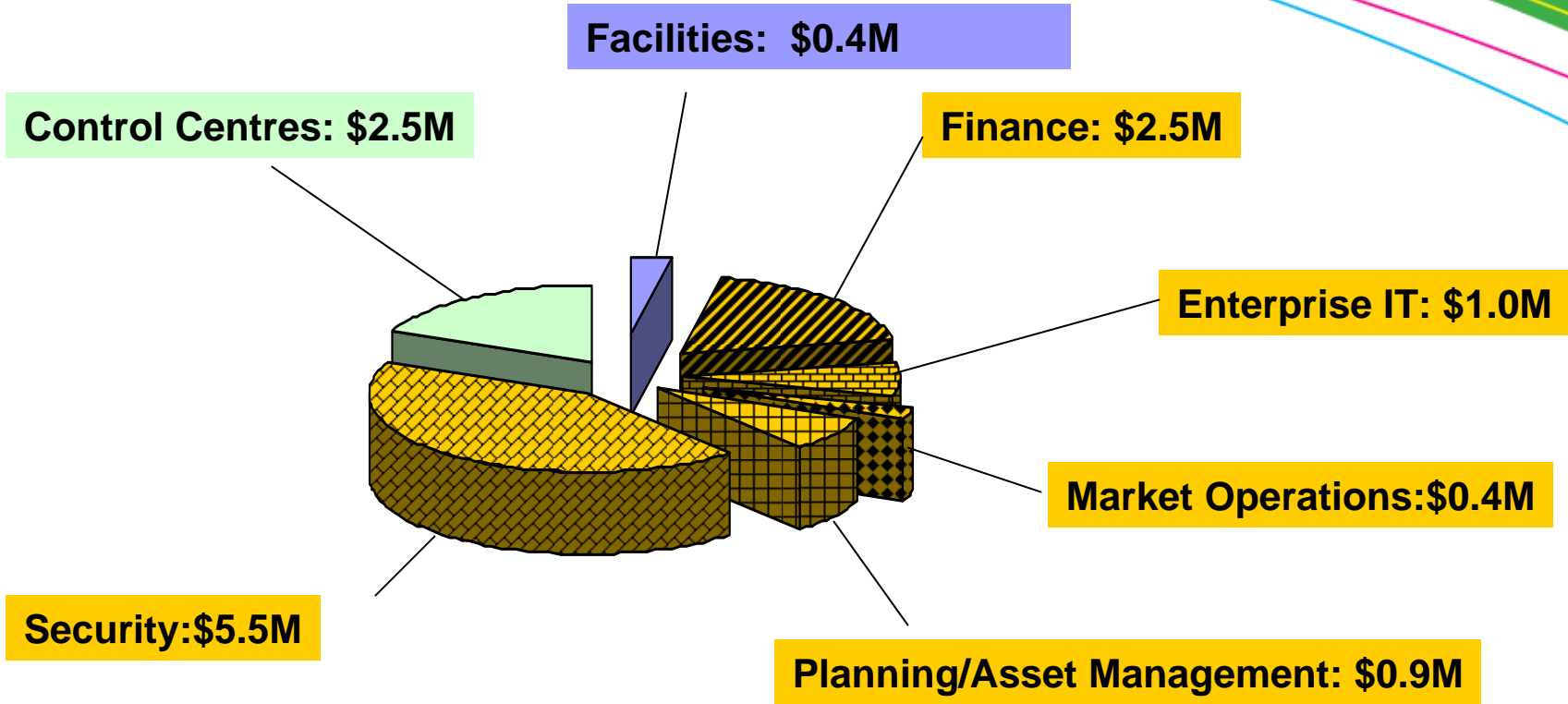
**22 projects for approval, totalling \$8.3M in F2009 and \$5M in F2010
(Forecast future approval for another \$8M in F2010)**

BCTC Capital Drivers

1. Increase Efficiency
2. Improve Decision Support
3. Sustain System Reliability
4. Sustain Asset Health
5. Improve Customer Relationship
6. Ensure Compliance



Projects for Approval



Major investments are in Security, Finance and Control Centre

Responding to the Commission's F2008 Capital Plan Decision

BCTC has investigated options to integrate with BC Hydro's IT system

- **Corporate Network Segmentation:**

After further consultation with BC Hydro, the project is resubmitted. This project aligns with BC Hydro's new initiative to segment their network infrastructure.

- **Backup Environment Separation**

After further discussions with BC Hydro, Backup Environment Separation is submitted as part of the Data Centre Redundancy project leveraging on new system delivered by BC Hydro's Disaster Recovery project which was not available at the time of F2008 submission.

BCTC portfolio addresses the Commission's feedback

Future Projects – Market Operations Business System Upgrade

- Study is underway to establish requirements, procurement options and better estimates of funding requirements for a separate future submission with \$8.0M/\$8.5M in F2009/F2010.

Discussion

Capital Plan Workshop Sign In Sheet

Name	Organization	Signature	Date
LAURIE GRAY	B.C. TRANSMISSION		JAN 22, 2008
PAUL CHOUDHURY	BCTC		Jan 22 2008
DON GILLESPIE	BCTC	Don Gillespie	"
D. STEPHENSON	BCTC		Jan 22/08
W. KRAMPL	BCTC		Jan. 22/08
Brian Williston	BCUC		Jan 22/2008
Claire Marshall	BCTC		Jan 22/08
Jim Quail	BCPIAC		"
Hoyd Guenther	FSI rep JIRSC		Jan 22, 2008
DAVE NEWLANDS	EVCC		JAN 22/08
Lyle McClelland	BC Hydro		"
WAI SHUM	BCTC		JAN 22, 2008
STEVE DAVIS	IPPBC		"
JIM WEIMER	IPPBC		Jan 22/08
GINETTE HANFIELD	BCTC		"
DOUG ROBINSON	POWEREX		"
GORDON DOBSON - MACK	Powerex		"
GLEN TANG	Powerex		"
BRIAN WALCRA	JIRSC		"
Jim Ko	BCTC		"
JOHN IRVINE	BC HYDRO		"
ELROY SWITLISHOFF	REPRESENTING BCUC		"
Gerry Garnett	GerryGarnettConsulting		"
SANDY CARPENTER	Fasten Martineau		"
Ebrahim Vaahedi	BCTC		"
L. Halpern	BCTC		"
Randy Bourne	BCTC		22 Jan 2008
J. Rich	BCH		"
ATAM KUMAR	BCTC		"