Eco-Efficiency at the Renaissance, Leading the Way

CEAA Annual Conference 2004





RENAISSANCE VANCOUVER HOTEL HARBOURSIDE

OVERVIEW

- 18 storey downtown waterfront location, 438 deluxe guestrooms,
 11 suites, 2 concierge floors, Marriott family member
- 18, 000 sq. ft. meeting space, 13 flexible meeting rooms, 7,920 sq. ft. ballroom.
- 2, 300 sq. ft. Health and Fitness Club, Indoor Pool, Whirlpool and Sauna
- Vistas Revolving Restaurant & Bar for dinner, Patina Restaurant for Breakfast and Lunch, Coal Harbour Bar
- Between 175 to 300 staff









- Solid waste and recycling;
- Water use;
- Liquid waste;
- Air emissions;
- Energy efficiency;
- Sustainable purchasing;
- Hazardous waste.





SOLID WASTE AND RECYCLING

- Program started in 1999
- Initiative of Purchaser/Receiver
- Now culture at hotel
- Programs include:
 - Recycling room (glass, plastic, metal, etc.)
 - Composting of organic waste
 - Packaging reduction/reuse programs
 - Metal hanger exchange
 - Mattress exchange
 - Charitable donations (soap/shampoo)







WATER USE & LIQUID WASTE

- Large and significant aspect of operations
- Water use tracked since 1998
- Water use vs. liquid waste
- Initiatives include:
 - ■Bed linen/towel reuse programs
 - ■Sensors on public toilets
 - Xeriscape management
 - Housekeeping leak reporting





AIR EMISSIONS

- Not large or significant operational aspect
- Issues include staff/guest transportation, mechanical equipment, emergency generators,
- Initiatives include:
 - No-idling policy for delivery trucks
 - TransLink Employer Pass Program
 - Guests encouraged to share taxis or use the Airporter service to the airport





ENERGY EFFICIENCY

- Large and significant operational aspect
- Energy use tracked since 1998
- Issues include heating/cooling equipment, general lighting, exterior lighting, kitchen/office equipment and plug loads
- Initiatives include:
 - Relamping corridor lighting from incandescent (60W) to 13W compact fluorescents
 - Back of house lights equipped with occupancy sensors
 - Conversion from T12 fluorescents to T8 with electronic ballasts
 - Radiant bathroom floor heating turned off in summer





SUSTAINABLE PURCHASING

- Renaissance tied to Marriott AVENDRA catalogue
- List of preferred vendors
- Policy to buy local whenever possible (90% within BC)
- Initiatives include:
 - ■Bulk purchasing of some food products (*e.g.* wild salmon)
 - Organic products used and promoted
 - Local BC VQA wines
 - Just-in-time purchasing policy
 - Reusable/recyclable packaging





HAZARDOUS WASTE

- Determined to be an insignificant issue
- Minimal hazardous waste products produced



CONCLUSIONS AND RECOMMENDATIONS

- Solid waste/recycling initiatives extremely well managed
- Sustainable purchasing well established
- Recommendations include:
 - ■Implement a formal tracking program for solid waste
 - Conduct solid waste audits (provides baseline from which to set waste reduction goals)
 - Develop formal sustainable purchasing program
 - Use life-cycle approach and supply chain management systems





SmartSteps RECOMMENDATIONS – continued

- Recommendations include:
 - ■Retrofit or replace all guest toilets with ultra-low flow models
 - Develop and implement a formal energy management plan
 - Conduct regular energy audits





QUESTIONS





SMARTSTEPs ASSESSMENT

- Assessment conducted January 2004
- 3 assessment team members
- 1-day on-site (information request prior)

PROGRAM LEVELS

- Level 1 Tactical Eco-Efficiency
- Level 2 Strategic
- Level 3 Sustainable
- Level 4 Structural

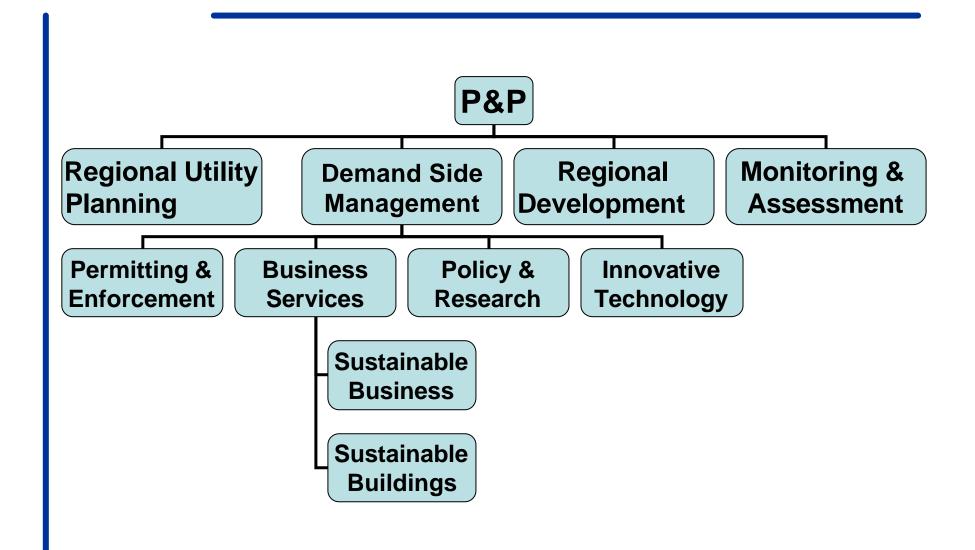


Overview

- GVRD Policy & Planning
- SmartSteps GVRD's Sustainable Business Program
- Technical Resources (web and print)
- SmartSteps Assessment Protocol
 - Jacques Whitford Myra Pagé, Environmental Scientist



Organizational Chart



Sustainable Business Program

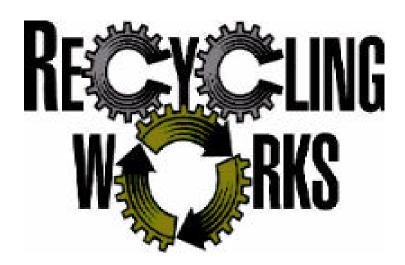
- What is a Sustainable Business?
- Why Eco-efficiency?
 - World Business Council for Sustainable Development:
 - "... creating more goods and services with ever less use of resources, waste and pollution"

Benefits of Eco-Efficiency

- Economic...uses less resources per unit of production
- Environmental... having to manage less waste...reduces costs
- Social...improves employee and public perception of company

SmartSteps

- Modeled on former Recycling Works program
- Audience research
- GVRD Business
 Friendliness Report
- Strategic Marketing Plan conducted Dec. 2001
- Branded SmartSteps



Impacts/Opportunities

IC&I Sector:

Generates:

- 3/4 of municipal solid waste (including DLC)
- 1/2 of GHG emissions
- 1/3 of smog-forming contaminants
- 1/3 of the BOD loading to WWTP's

Uses:

- 1/3 of potable water supply
- 1/3 of energy and resources

Priority Sectors



- Hotel and Motels
- Restaurants
- Retail
- Transportation
- Commercial Offices
- Wholesale/Warehousing
- Manufacturing
- Schools

Program Areas



- Clean Air
- Waste Reduction
- Recycling
- Water Conservation
- Energy Efficiency
- Sustainable Purchasing

Business Tools

Internet business gateway recommended... answering the questions:

- What do you have to do?...
- What can you do? ...
- What have others done?...
- Why would you want to do it?...
- Who to contact for more information?

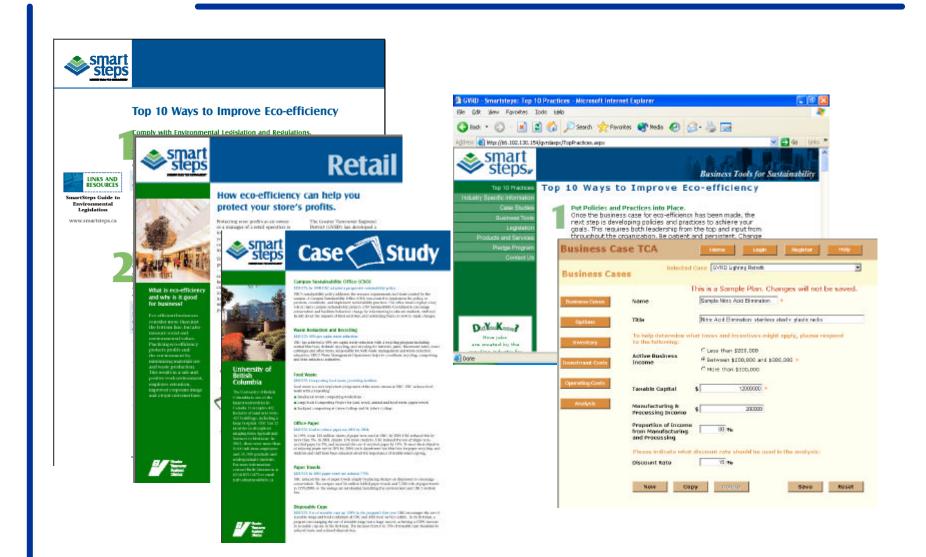


Technical Resources

- SmartSteps Top 10 actions to improve eco-efficiency
- Sector based guidelines
- Case studies
- Tools
 - Business Case TCA
 - Products & Services Directory
 - Sustainable Purchasing Guidelines
- Guide to environmental legislation and regulations



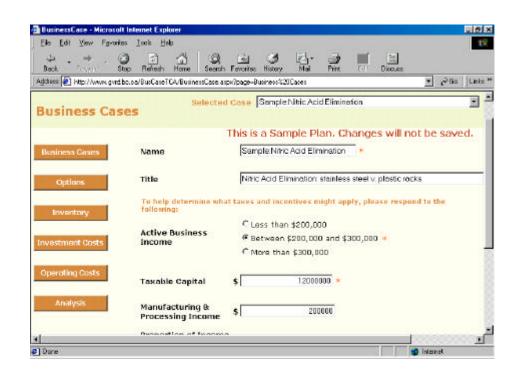
Technical Resources cont'd



Total Cost Assessment

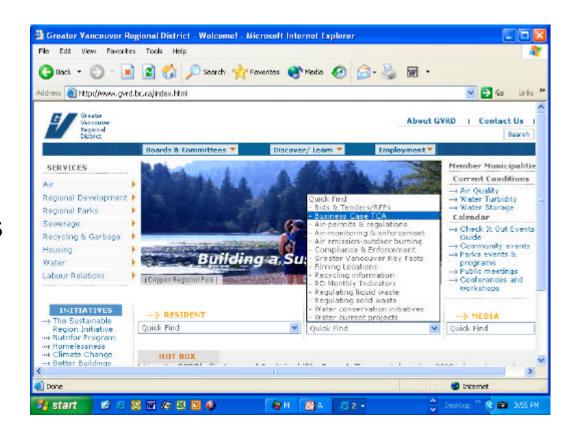
TCA considers:

- True costs and profitability of options
- Identifies overlooked or hidden costs
- Considers time value of money
- Uses discounted cash flow
- Extends time horizon
- Enhances decision making



Business Case TCA

- Web-based application
- Available on: www.gvrd.bc.ca
- Provides on-line guidance/ resources
- Considers BC and Federal taxes



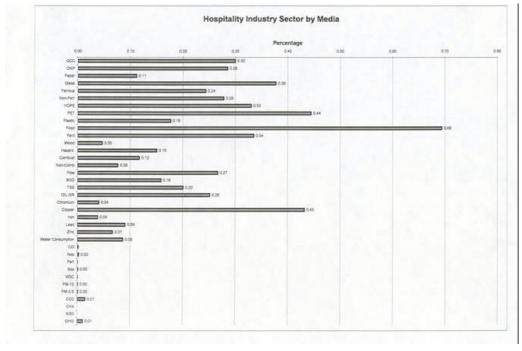
GVRD Assessment Protocol

- Pilot program to develop and test assessment protocol
- Assess/characterize ecoefficient practices/ opportunities
- One assessment conducted in each of 8 SmartSteps priority sectors
- Hotel sector
 - Renaissance Vancouver Hotel Harbourside

Hotel/Motel Sector

Impacts – Opportunities

- Energy conservation
- Solid waste reduction, recycling
- Water conservation
- Sustainable purchasing



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Questions

