



Greening Major Infrastructure Projects

**Department of Transportation & Works
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Overview



1. TW – Works Branch
2. Build Better Buildings Policy
3. Project Overviews
4. Benefits and Challenges of Sustainable Buildings
5. Conclusion

OVERVIEW OF WORKS BRANCH

4 Key Pillars for the Department

1. Safety
2. Reliability
3. Sustainability
4. Service Excellence

Works Branch



- Responsible for **640,000 m²** of floor space, in **872** buildings, on **366** sites across the province
- Responsible for the leasing of 300 spaces (approximately **128,000 m²** square metre) with an annual leased value of **\$23.2M**
- Lead on construction of new buildings and management of other capital projects
- Committed to demonstrate leadership in sustainability

Building Infrastructure



- Managing over 40 major building infrastructure projects; 19 projects in the education sector and 11 in health care
- Expenditure in 2014/15 estimated at over \$230M
- Total value of active projects almost \$2 B

\$6B Spent on Infrastructure Since 2003



BUILD BETTER BUILDINGS POLICY

Build Better Buildings Policy



- Building projects must follow the BBB Policy if they receive **provincial funding** for:
 - New builds and extensions that have an area of 600 sq. m (6,458 sq. ft.) or more
 - Renovation must exceed 50% of the cost of a new building of equivalent size and function

3 Requirements of BBB Policy



These provincially-funded buildings **must**:

- Exceed 1997 Model National Energy Code Buildings (MNECB) by 25%
- Register with the CaGBC & strive for LEED Silver
- Complete a Life-Cycle Cost Analysis (using capital & operating costs)

Codes and Standards

- National Building Code 2010
- National Energy Code for Buildings 2011
- Leadership in Energy and Environmental Design (LEED)
- BOMA BEST (Building Environmental Standards)





OUR PROJECTS



St. John's LTC Home



Placentia School



Corner Brook LTC



Youth Treatment Centers, Paradise & Grand Falls - Windsor



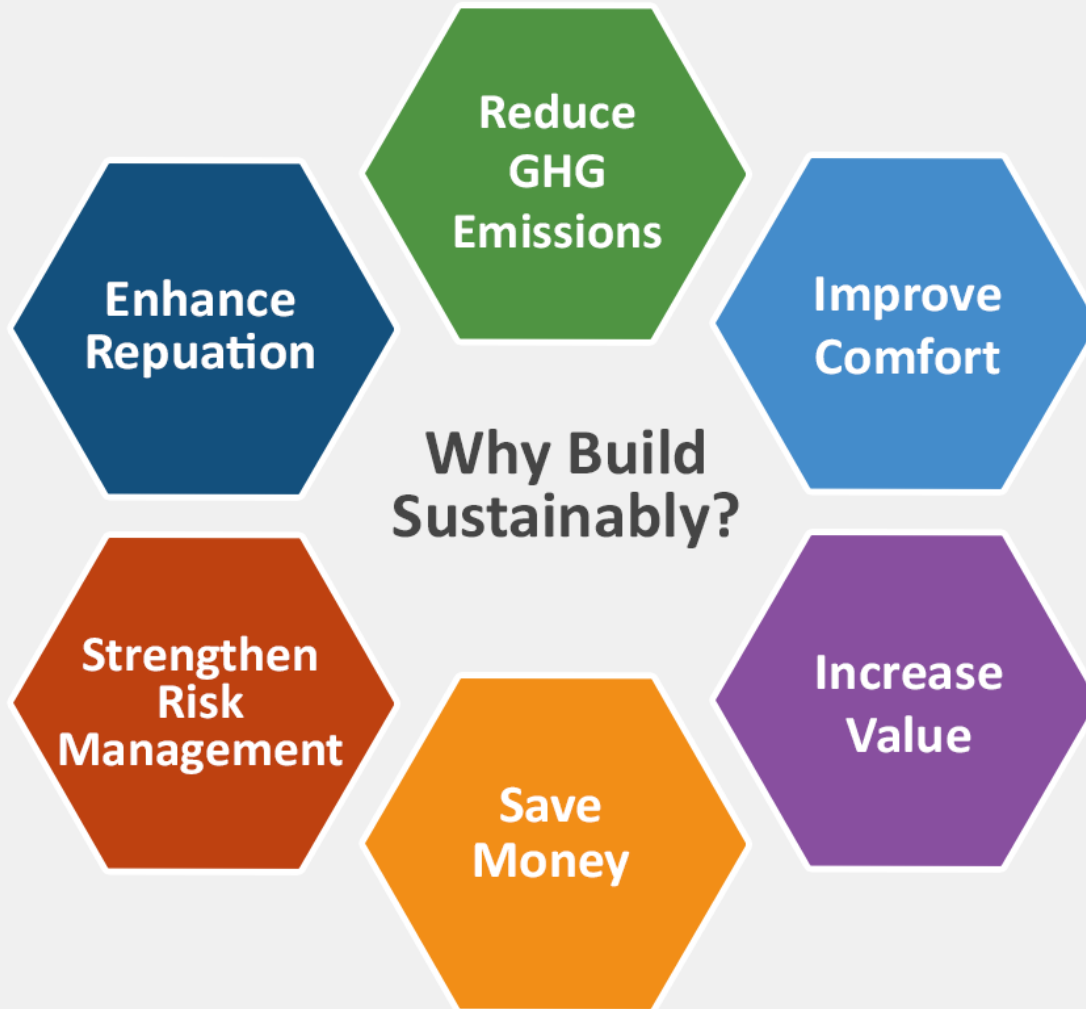
**On-site
Vehicle
Charging
Station**

Natural Resources Building, St. John's



BENEFITS & CHALLENGES: BUILDING SUSTAINABLY

Benefits of Sustainable Building



Challenges



- New vs Existing
 - Clean slate with a new build provides more opportunities
 - Energy audits of existing buildings identify few obvious wins
- Rural vs Urban
 - LEED points tend to favour urban locations
 - Systems serviceability
- Value for Money
 - Business case, not “chasing points”

Conclusion



Strong Stewardship

Strong Leadership

Strong Partnership

and a Desire to Always do Better



THANK YOU