



Upper River Valley Hospital

State-of-the-art hospital and a healthy workplace
Waterville, New Brunswick



PHOTO CREDIT NEW BRUNSWICK DEPARTMENT OF SUPPLY AND SERVICES

The New Brunswick Department of Supply and Services made green infrastructure a key element of its capital construction program. This 70-bed, 17,650 m² provides many essential services, including an emergency department, obstetrics, surgical wards, and palliative care. The hospital siting and design takes maximum advantage of natural site slopes, solar orientation, vehicular and pedestrian traffic flows, and prevailing wind

conditions. The floor plan is based on four wings surrounding a two-storey, naturally sunlit atrium. The building design makes good use of locally-produced materials, rainwater cisterns, energy-efficient mechanical systems, and provides exceptional indoor air quality. A “green housekeeping program” reduce wastes and promotes the use of environmentally-friendly, recyclable products in the building.

Notable Features

- Extensive native-species landscaping with a healing garden
- Stormwater management includes swales, detention ponds, and oil-grit separation chambers
- Rainwater cistern to supply toilet flushing and mechanical system
- On-site wastewater treatment to twice the level required by the municipality
- Heat recovery ventilation
- Energy-efficient lighting fixtures with low-mercury fluorescent lamps
- Waste heat from the cooling plant pre-heat domestic hot water
- Building aired out with 100% outdoor air for four months before opening
- Deck-to-deck partitions, separate exhaust systems for janitorial rooms
- MERV 15 filters in all air handling systems
- Extensive use of low-emitting materials: linoleum flooring, carpeting, paints, adhesives
- 100% outdoor air provided to patient rooms
- Green housekeeping program

Owner:
New Brunswick Department of Supply and Services

Architect:
ADI Limited

- Our Services:**
- Sustainable Design Facilitation
 - Energy Efficiency Consulting
 - LEED® Consulting & Certification
 - Green Education Program Design

Status:
LEED-NC Silver Certified
Completed 2007

LEED® Project Facts

Gross Floor Area: 17510 (m²)

Energy Density: 341 (kWh/m²)

| Category | % Performance |
|-----------------------------|---------------|
| Water Savings | |
| Irrigation | 100 % |
| Indoor Use | 56 % |
| Energy Savings | |
| Recycled Content | 16 % |
| Regional Content | 16 % |
| Stormwater Treatment | |
| TSS Removal | 98 % |
| TP Removal | 94 % |

LEED® Silver



34%
Energy Savings



56%
Indoor Water Savings



16%
Raw Materials Savings