

自然の恵みを室内環境に取り込む壁 Walls that bring the benefits of nature indoors



壁面緑化ルーバー
Green Wall Louvers

壁面緑化には、主に北海道の自生種を選定し、段の高低差に応じて樹種を変えて、北海道の植生を表現しています。

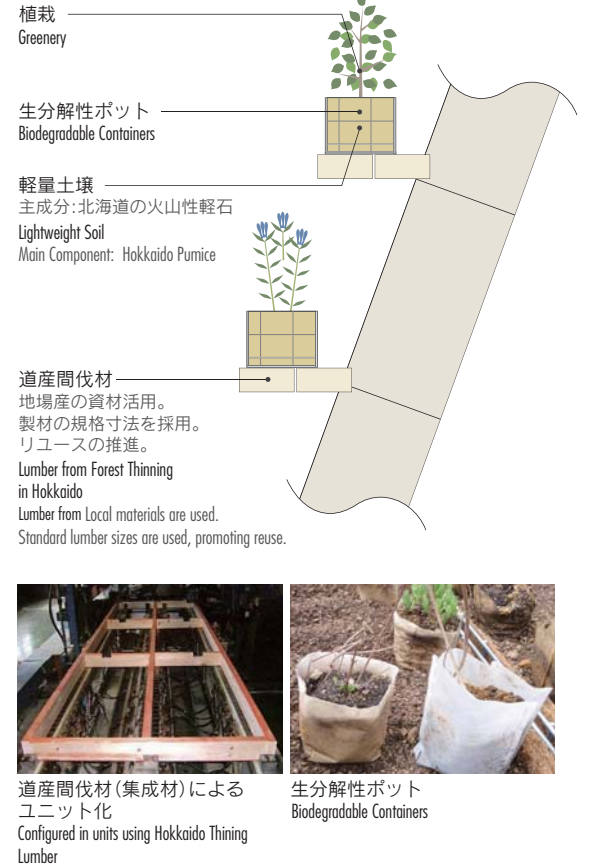
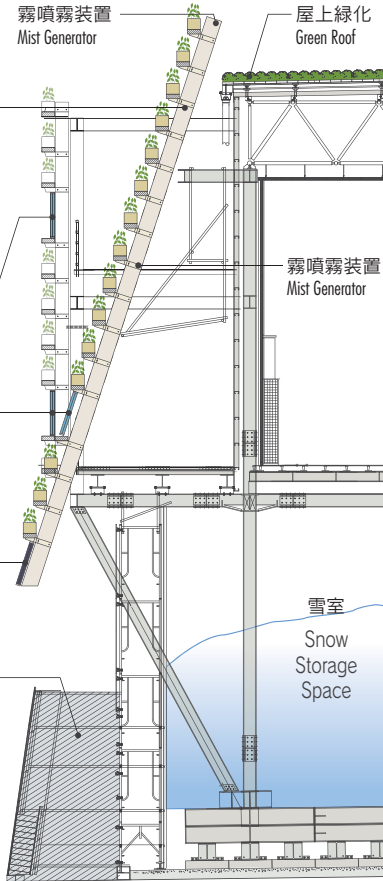
Native species of mainly Hokkaido were selected for planting along the wall. The tree species are varied along height differentials of the site, expressing the native vegetation of Hokkaido.

ソーラーパネル(透過型)
Photovoltaic Panel (See-Through Type)

ソーラーパネル(一般型)
Photovoltaic Panel (General Type)

雪室外壁
Exterior Walls of Snow Storage

道南竹、農業用麻袋等の自然素材を活用しています。These walls are made with natural materials, including Donan bamboo and gunny sacks used in farming.

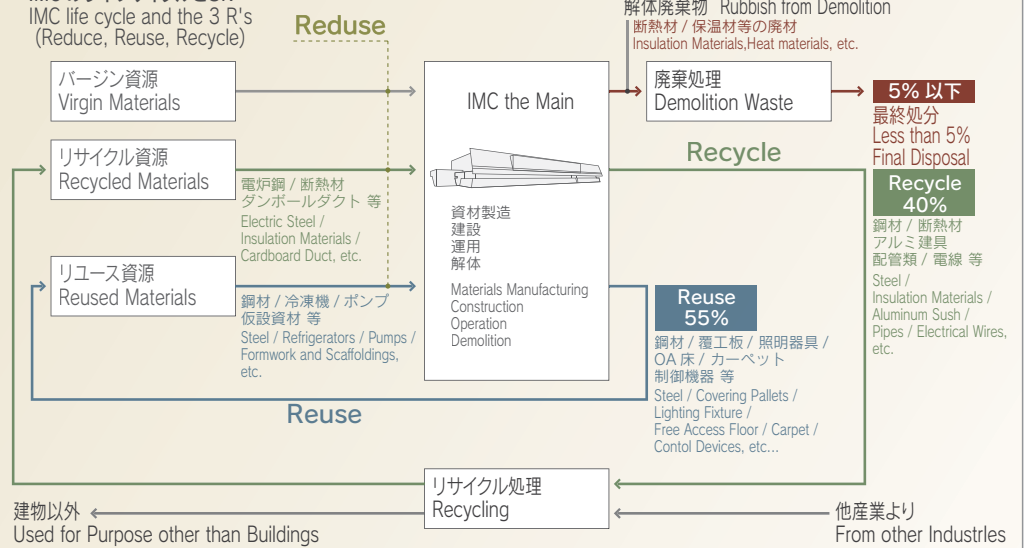


北海道洞爺湖サミット国際メディアセンター(IMCザ・メイン)の環境配慮技術 Eco-friendly Technology in the Hokkaido Toyako Summit, IMC The Main



建築資材の95%を再資源化・再利用 95% of the Buildings Materials are Recycled or Reused

●IMCのライフサイクルと3R
IMC life cycle and the 3 R's (Reduce, Reuse, Recycle)



約7,000tonの雪を冷房に利用 Usage of 7,000ton snow to cooling

雪冷房システム

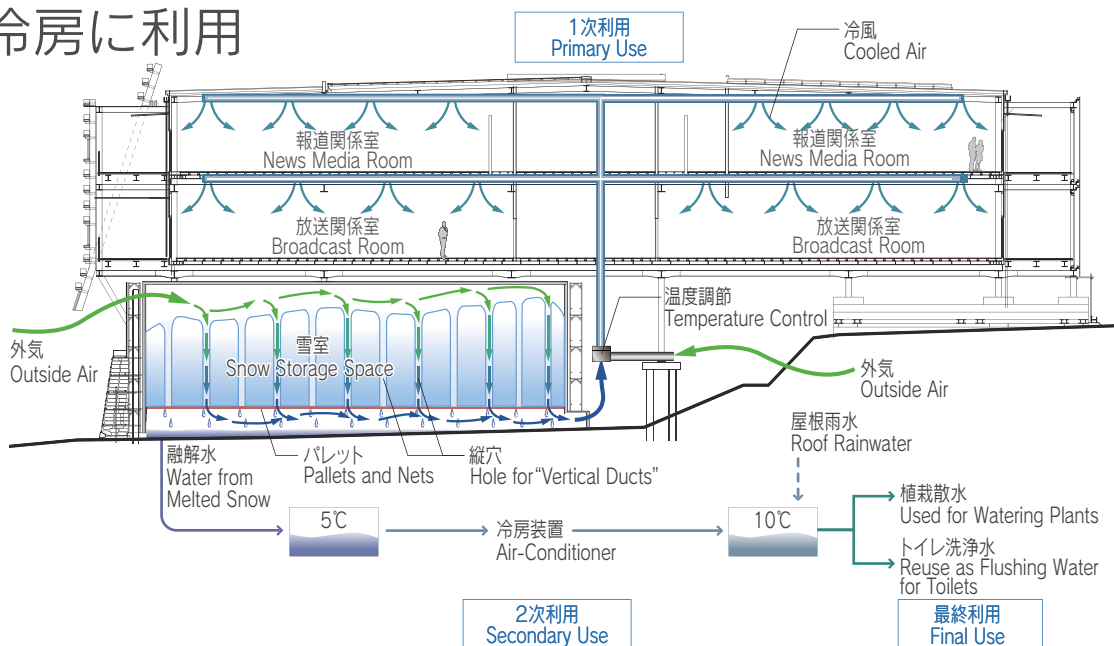
敷地内の段差により生じたプレスセンター棟下部の余剰空間を、雪室(周辺を断熱した雪貯蔵庫)とし、サミット開催期間の冷房に必要な容量の雪を貯蔵します。{雪冷房期待負荷約30万kWh 必要雪量 約7,000t}

雪室に貯蔵した雪に縦穴を開け、そこに外気を通すことで冷風を作り送風します。また、解けたばかりで温度の低い融解水は冷房装置に利用します。さらに、冷熱を使い切った水はトイレの洗浄に使用し、最後まで雪を有効に利用します。

Snow air conditioning system

A hollow in the site is used to form a surplus space under the press center, and this space is insulated and used to store snow in the amount needed for air conditioning during a summit. (About 7,000 tons of snow are needed for 300,000 kWh, the expected load for snow air conditioning.)

Vertical holes are formed in the snow stored in this space, and outside air is passed through these holes, cooling it for use in air conditioning. In addition, cold water from just-melted snow is used in air conditioners. After all of its coldness has been expended, this water is used to flush toilets, ensuring that the snow is used effectively till the last.



その他の技術 Other Technology

- 空調ダクトにダンボールダクトを採用
Use of cardboard duct for air conditioning ducts
- 自然採光用と自然通風を兼ねたトップライト
Skylights that provide both natural light and natural ventilation
- タスクアンビエント空調による省エネ
Task-ambient air conditioning for energy efficiency
- LED照明器具を多く採用して節電
Use of many LED light fixtures to reduce power consumption
- 超節水便器の採用
Ultra low-flow toilets
- 自然冷媒による冷凍機も補助として採用
Supplementary use of natural coolant refrigerators

CASBEE短期使用
評価Sランク達成
Attained the highest "S" ranking under CASBEE for Temporary Construction.