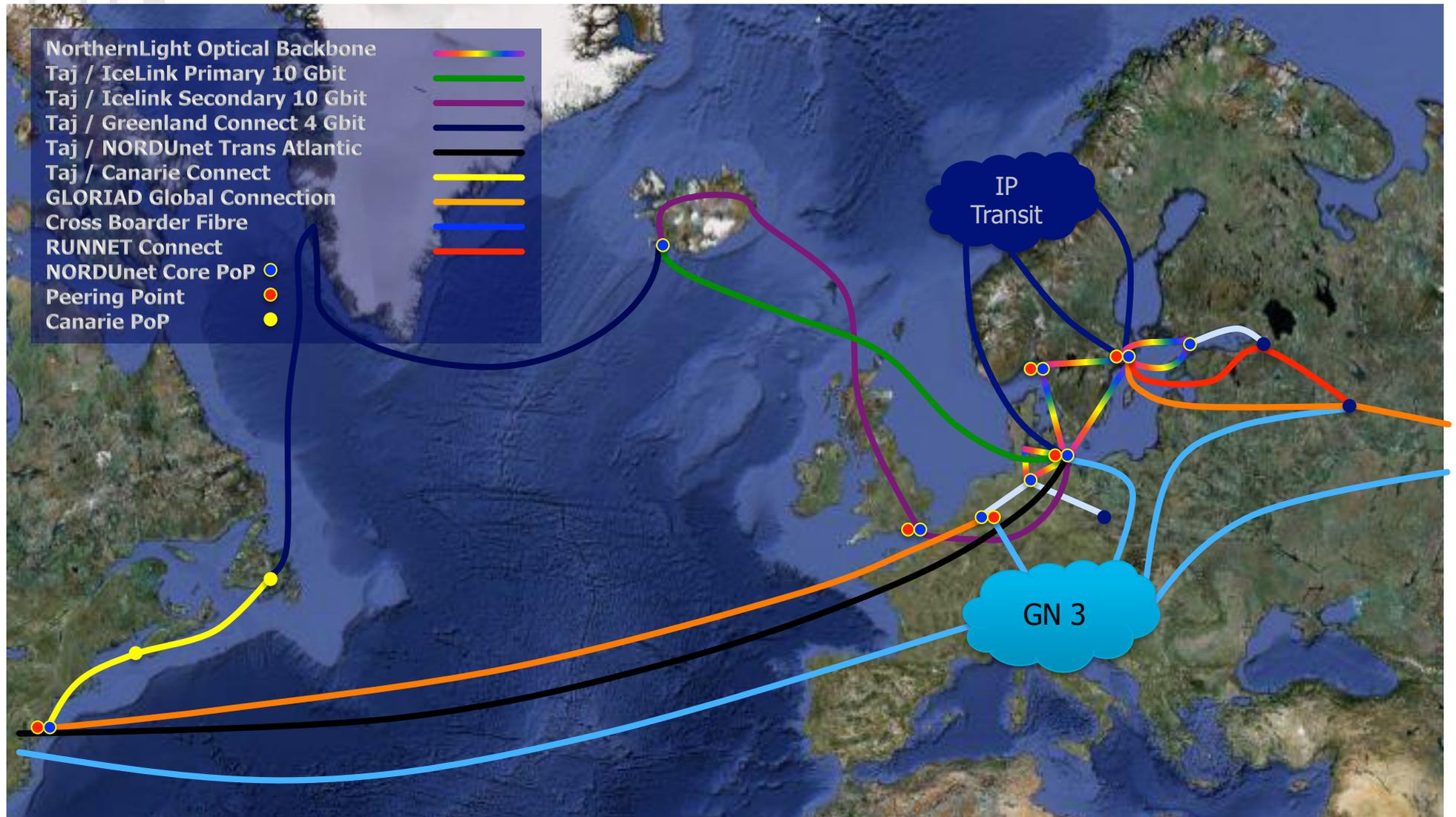


NORDUnet Green Initiatives

René Buch

CEO NORDUnet





- **Network:**
 - 4567 Km of Fibre network (+ Trans Atlantic Capacity)
 - 15 Primary backbone Sites
 - 49 ILA Sites
- **Organization**
 - 30 Employees (+16 from NDGF)
 - Main Offices in Copenhagen, Stockholm, Washington
 - 2 Remote Sites (+ 10 from NDGF)
- **Significant part of Nordic Energy comes from CO2 Friendly sources**
 - Hydro-, Wind-, Geothermal or Nuclear Power

- **Network**
 - New Procurement will focus on energy efficiency
 - There is a very long way here.
 - Coordinated demands to industry would be welcomed.
 - Optical equipment less energy demanding than traditionally switched IP Backbone.
 - Maximise Utilisation and Minimize transponder number by upgrading to 40+ GBit
 - Change Cooling methodology where possible – have resulted in 60% savings in Stockholm Main PoP.
 - Virtualization of Computing Resources
- **Community**
 - Move computing resources close to renewable energy.
 - Encourage use of virtual meeting capabilities
 - Video Conferencing and Tele Presence
 - IM



- **Organization**
 - Offices close to Public transport
 - Remote working capability for all (Average 1 Day / Week)
 - Significant Usage of Virtual Presence Technology
 - Virtual Office
 - Tele presence between main sites in Copenhagen and Stockholm
 - Videoconferencing capability for Internal and External meetings:
 - Centralized MCU:
 - 48 Continuous Presence Video Participants in HD Quality 48
 - 72 Continuous Presence Video Participants in SD Quality 72
 - 48/96 Continuous Presence NORDUnet Desktop Participants in HD/SD
 - 300 Additional Streaming Users
 - 96 Audio
 - 3 Simultaneously Conference Room Recording
 - IM Integration
 - Decentralized Terminals
 - 4 Systems with Multiway Call Capability
 - 7 System for Point to Point call or Connection to Centralized MCU
 - European Coordination and Agreement on standards required in a al to all communication environment.



NORDUnet Green Focus Areas

Q & A

