Port of Halifax

Shore Power System for Cruise Vessels

February 2015
Cargo · Cruise · Seaport

Cruise Business

- May – October
  - Peak season is Fall
- 17 lines calling
- 130 vessels
- Over 225,000 passengers
Cruise Vessel Shore Power
Energy Requirements

Vessels calling Port of Halifax
with shore power systems

• 6MW – 14MW Energy
• Most of the cruise lines agreed
  on a standard
Drivers

• **Emissions Control Area (ECA) Regulations**
  – Provide alternative option to meet new regulations
  – Atlantic Canada Ports 100% in ECA
  – Average sailing distance was over 1500 nm

• **Energy Company Support**
  – Nova Scotia Power
Drivers

- **Energy Supply – Nova Scotia Power**
  - Load / Capacity Available
  - Affordable Energy costs- Interruptible Rate
    - Design a new rate for shore power
  - Environmental Emissions Reductions
    - Reduction in Provincial Emissions
Drivers

• Local Environmental Groups - Support
  – Reviewed environmental benefits of system
  – Supported the shore power program

• Partnership Funding
  – Federal Government Funding
  – Provincial Government

• Cruise Line Agreements
  – Maintenance and, usage fees, insurance, etc.
Evaluation of Systems

System designed to meet needs of the cruise lines

- Safe and reliable
- Cost effective and efficient system
- Standardized
- Preliminary design and estimate
Implementation

$10 Million system
• Infrastructure for 2
• Installed one system
  – Cochran Marine
• Construction
  – Plan was 1 year
  – Actual – 7.5 months
  – March - October
• First Connection
  – October 2015