

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

