“Projects In Progress - Hybrid Yard Hostlers”

William A. Nurthen

Port Commerce Department

Port Authority of New York and New Jersey
Port Authority Marine Terminals

New York:
- Brooklyn PA Marine Terminal
- Red Hook Container Terminal
- Howland Hook Marine Terminal

New Jersey:
- Port Newark
- Elizabeth PA Marine Terminal
- PA Auto Marine Terminal
Yard Hostlers and Hybrid Technology
Two Demonstration Projects

• New York Container Terminal Project
  • Electric Hybrid Drive System
    • Store energy in batteries and/or ultra-capacitors
    • Use electric generator-motors

• APM Terminal Project
  • Hydraulic Hybrid Drive System – EPA technology
    • Store energy in hydraulic accumulators
    • Use hydraulic pump-motors
Benefits

• Benefits of Hybrid Technology
  • Reduce GHG and Pollutant emissions
    • Over 90% PM reduction
  • Improve fuel economy 30%
    • Estimate $33,600 fuel savings (1st owner, 7 years)

• Benefits of These Projects
  • Significantly reduce CAP, GHG emissions, energy use
  • World wide applicability
The End

Questions?