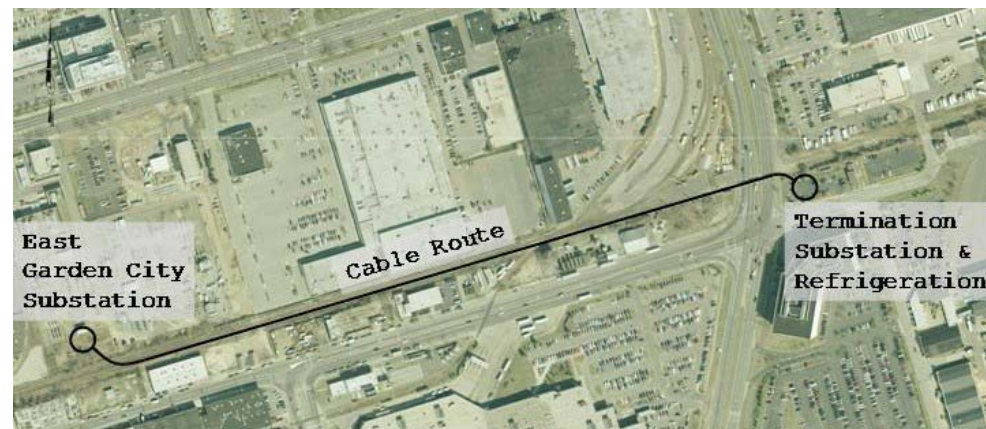


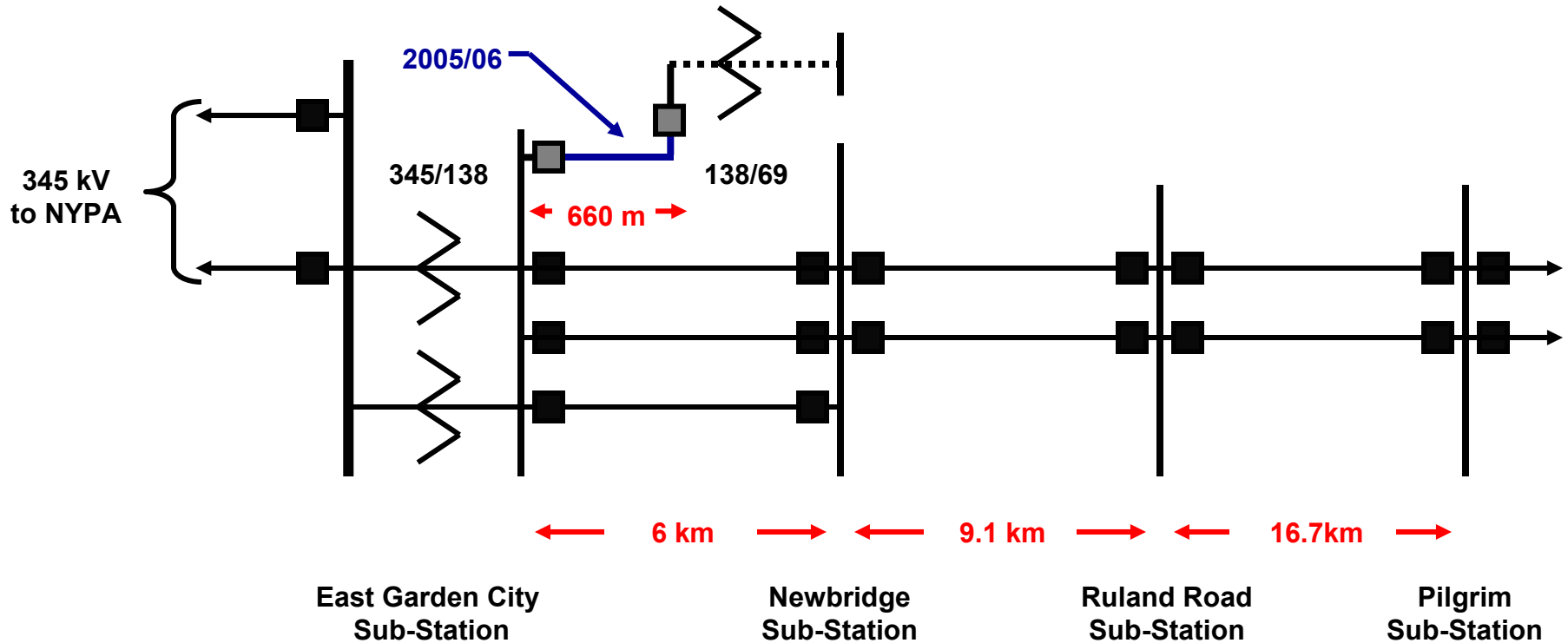
# LIPA Project Fact Sheet

- Long Island Power Authority – East Garden City Substation
- Electrical Operating Characteristics
  - Operating Voltage/Current – 138kV/2400A ~ 574MVA
  - Design Fault Current – 69,000A @ 15 line cycles (250ms)
- Physical Characteristics
  - Length – 660m
  - HTS Conductor Length – 159km
  - Cold Dielectric Design
- Hardware Deliverables
  - Three 660m long Phase Conductors
  - Six 161kV Outdoor Terminations
  - One 161kV Splice
  - One Refrigeration System + Pulse Tube System
- Commissioning - 2006



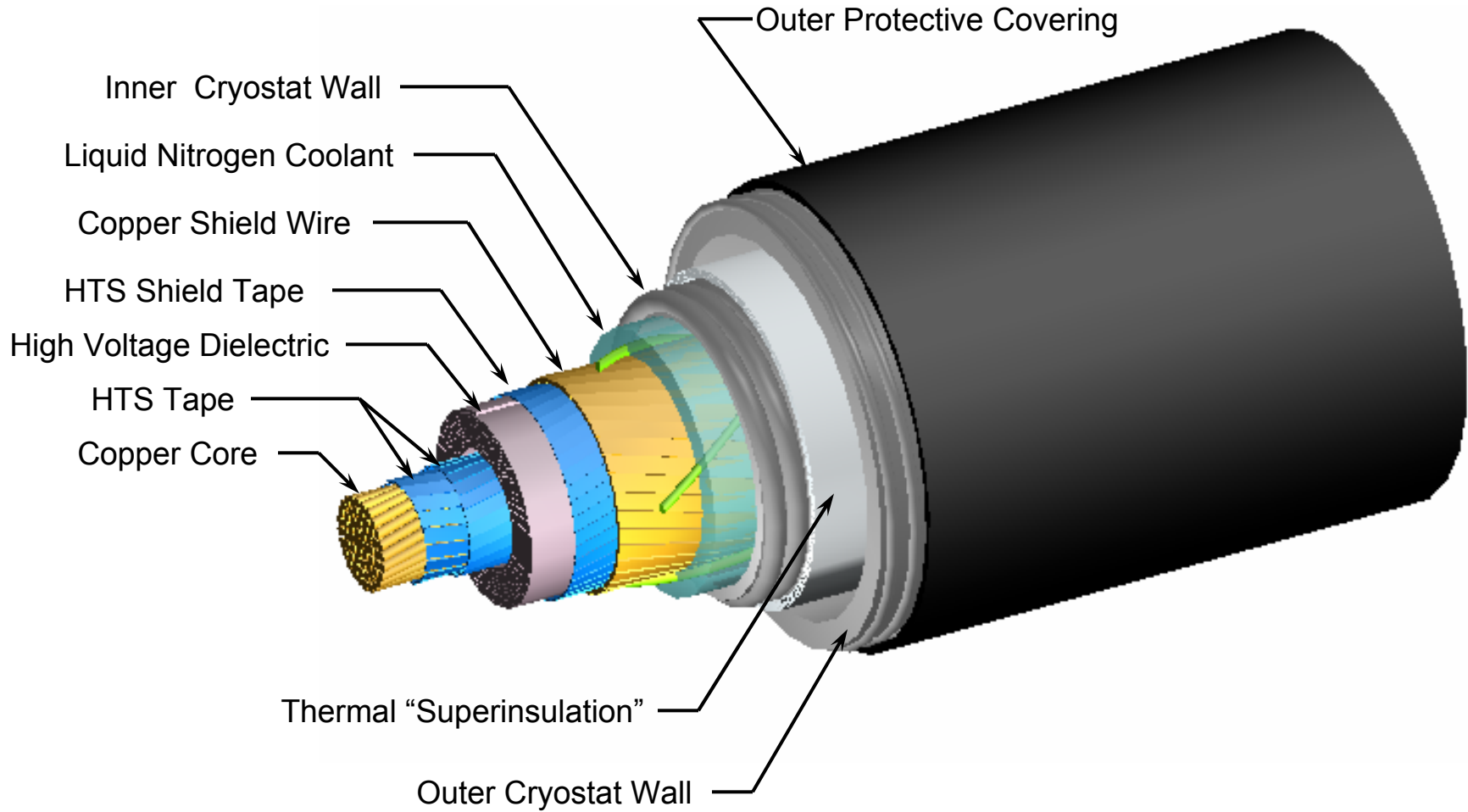
*Worlds First Installation of a Transmission Voltage HTS Cable in the World*

# LIPA 138 kV HTS Cable Project – Phase 1

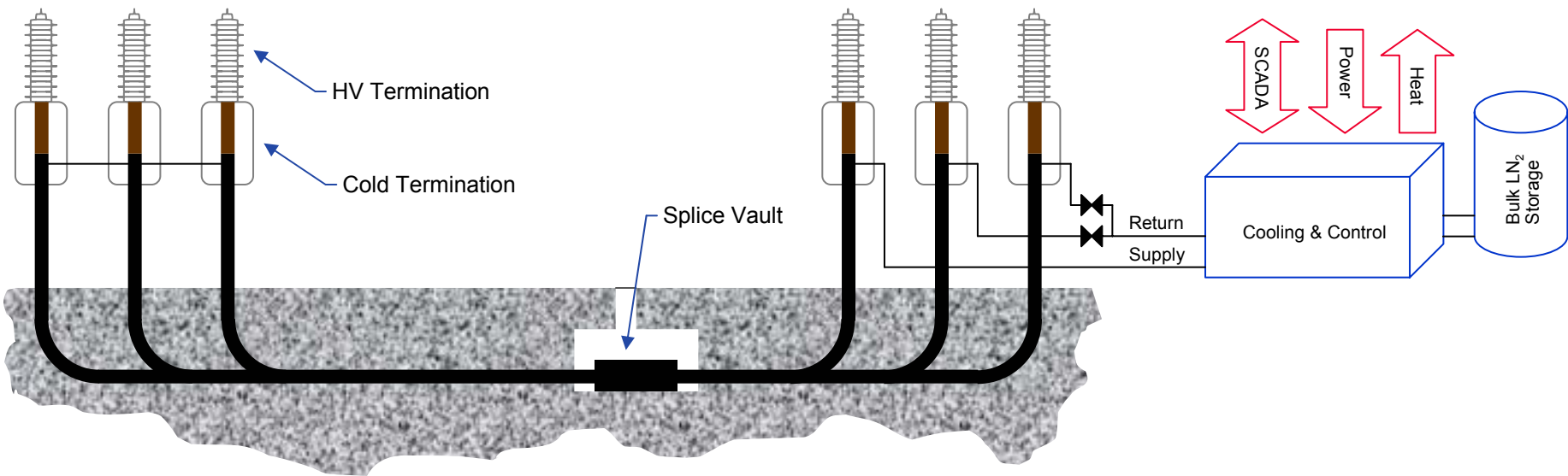


DOE Co-Funded – 660m 138kV 2400A HTS Cable -- In Service 2006 --

# Typical VLI Cable Cross Section



# HTS Cable System Diagram



*VLI Cables allow direct solutions for solving transmission system problems*