

# New Orleans Convention Center Boulevard Special Improvement District Underground Power Delivery System & Microgrid

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**Concept:** Convention Center Boulevard between Canal Street & the convention center contain Entergy New Orleans Public Service Inc (NOPSI) high voltage power lines and towers. A replacement Entergy owned underground high voltage cable system connecting the Entergy NOPSI Delta & Notre Dame substations would not only beautify the area but also provide resiliency against storms.

At present the major power consumers in this area (Flamingo Hotel & Casino, Harrah's Hotel & Casino, Canal Place Offices & Mall, Riverwalk Mall, and Convention Center.) connect to the utility grid (Entergy NOPSI) via medium voltage substations (not the existing high voltage lines along Convention Center Boulevard). If these Entergy customers were to purchase high voltage substations connecting to the proposed underground high voltage cable system, they would benefit from lower electric rates and higher reliability.

Adding additional power generation distributed energy resources to complement existing emergency power generation of the major power consumers could result in microgrid. A microgrid can disconnect from the main grid and continue powering critical infrastructure. In the event of a major severe storm, a microgrid can disconnect from the main grid and continue operations allowing this area to house storm displaced individuals and emergency response teams.

# Entergy New Orleans Public Service Inc (NOPSI) 115kV (115,000 Volt) System



Two 115kV OH Circuits

Delta Substation

Notre Dame Substation

# Entergy NOPSI Delta Substation



# Entergy NOPSI Delta Substation

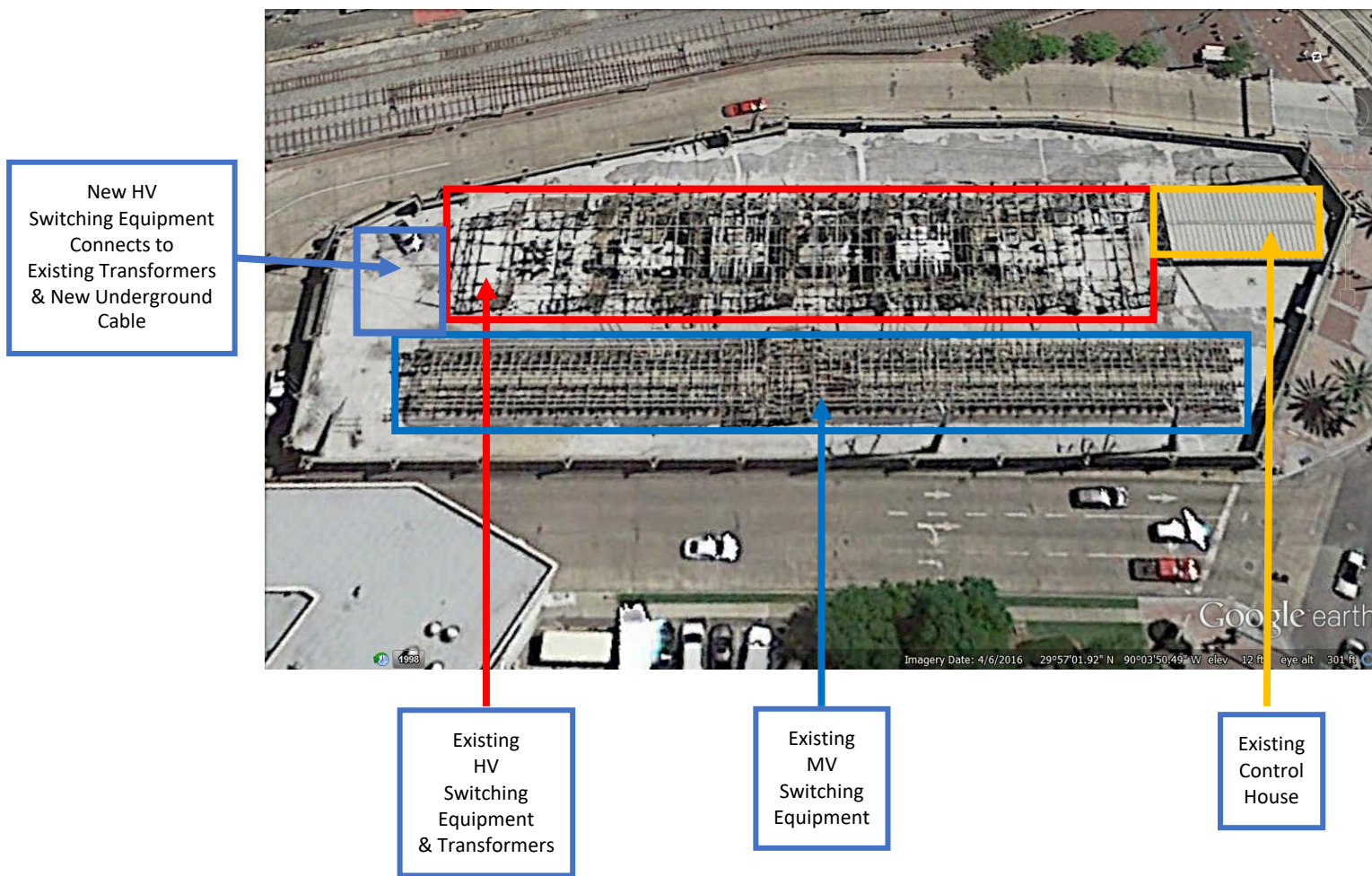


Towers & lines  
(Would go away)

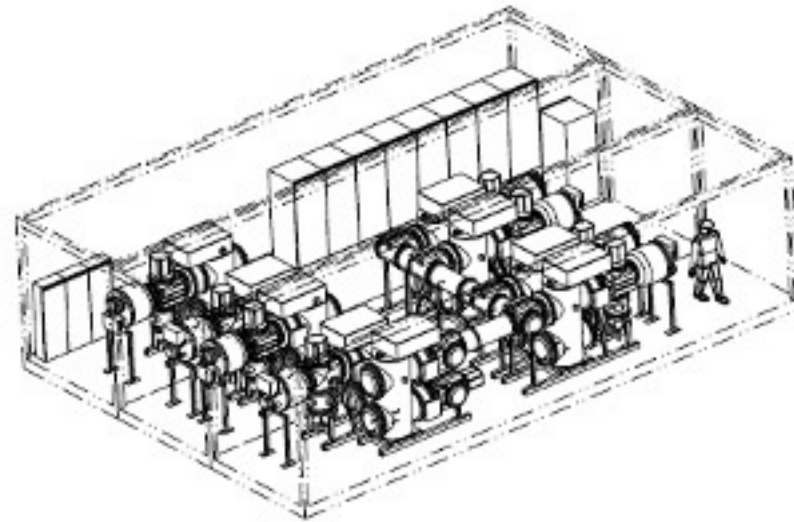
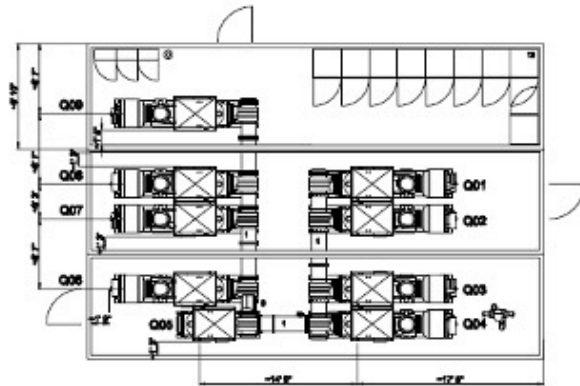
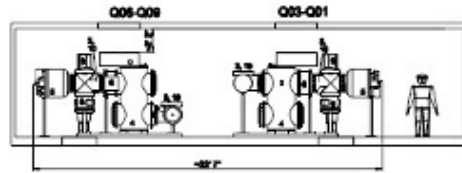
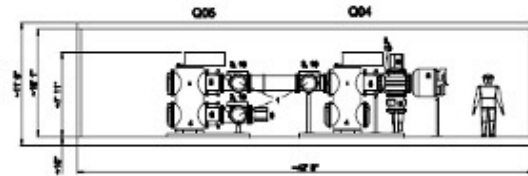
Medium Voltage  
Equipment  
Will Remain

High Voltage  
Equipment  
Will Be Replaced

# Entergy NOPSI Delta Substation



# Entergy NOPSI Delta Substation Compact High Voltage Switching Equipment



New HV Switching Equipment 40' x 30' x 10' Connects to Existing Transformers & New Underground Cables

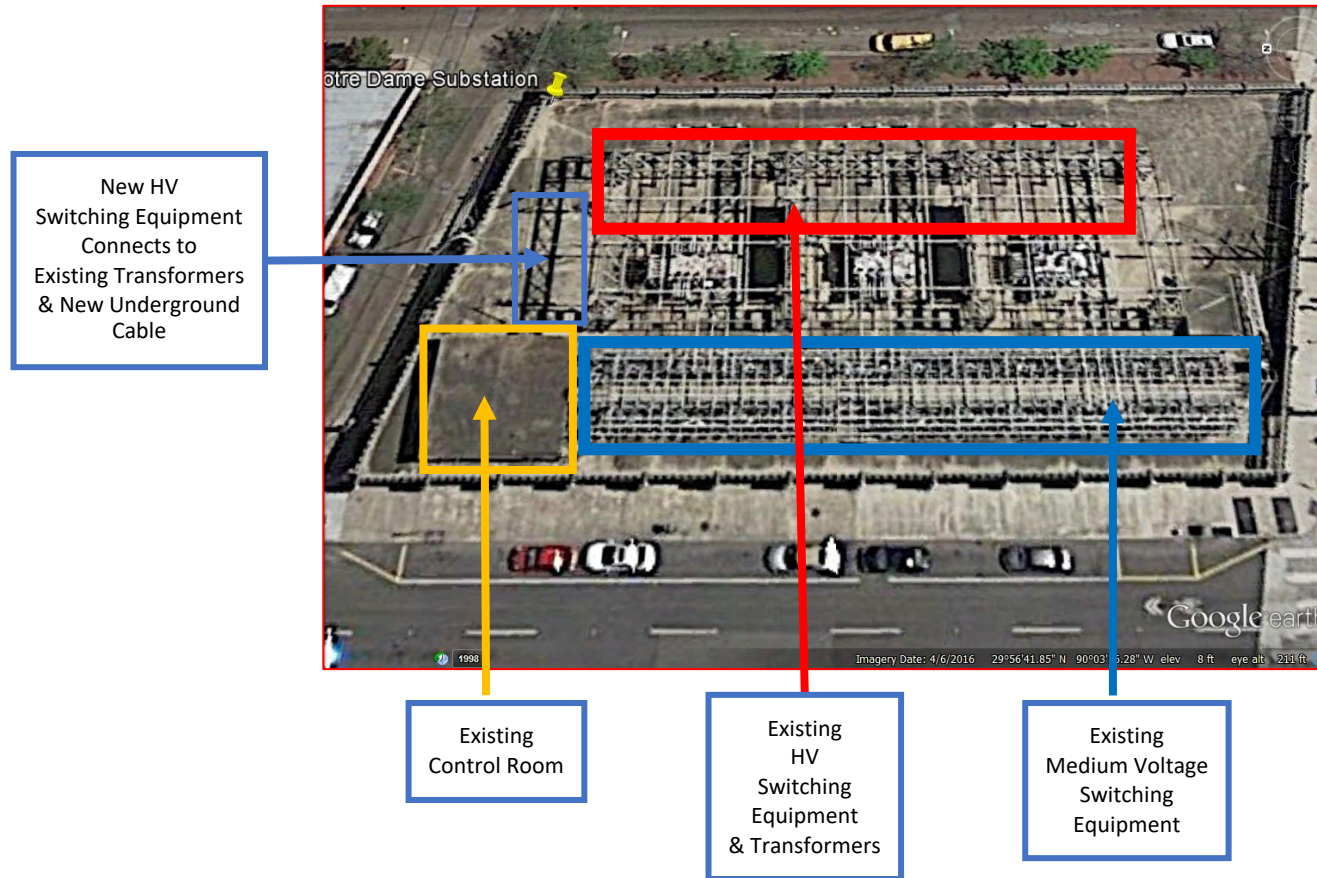
# Entergy Power Lines & Towers Convention Center Blvd



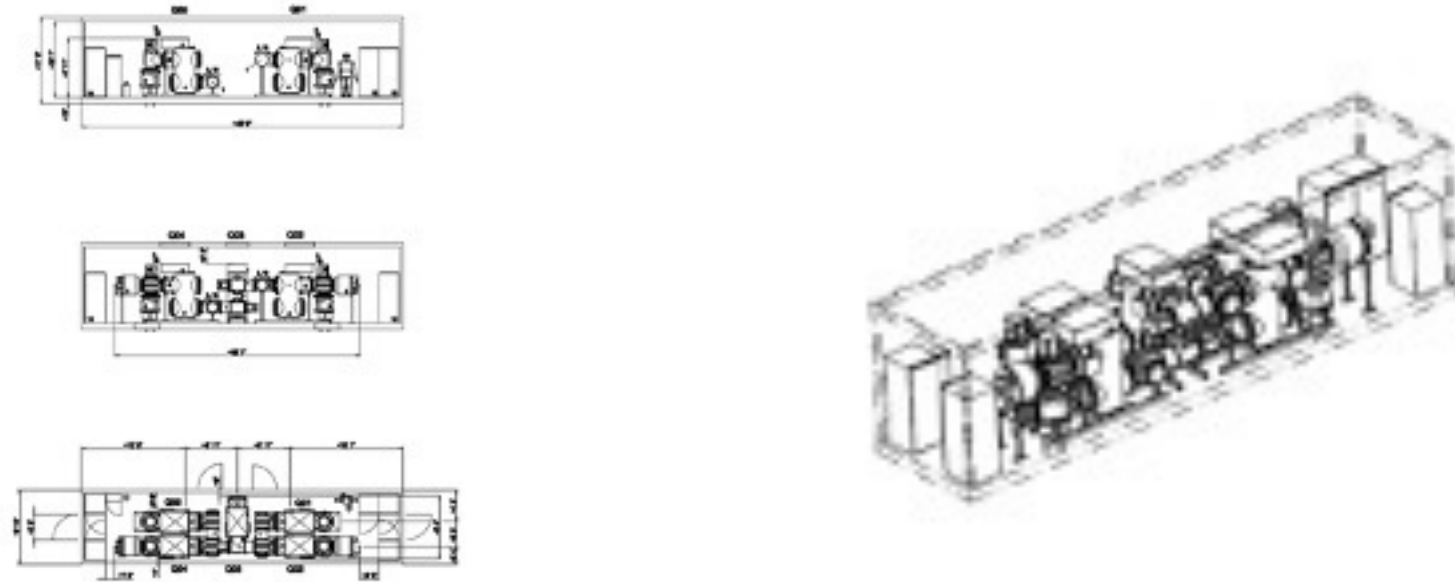
# Entergy Power Lines & Towers Convention Center Blvd



# Entergy NOPSI Notre Dame Substation



# Entergy NOPSI Notre Dame Substation Compact High Voltage Switching Equipment



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