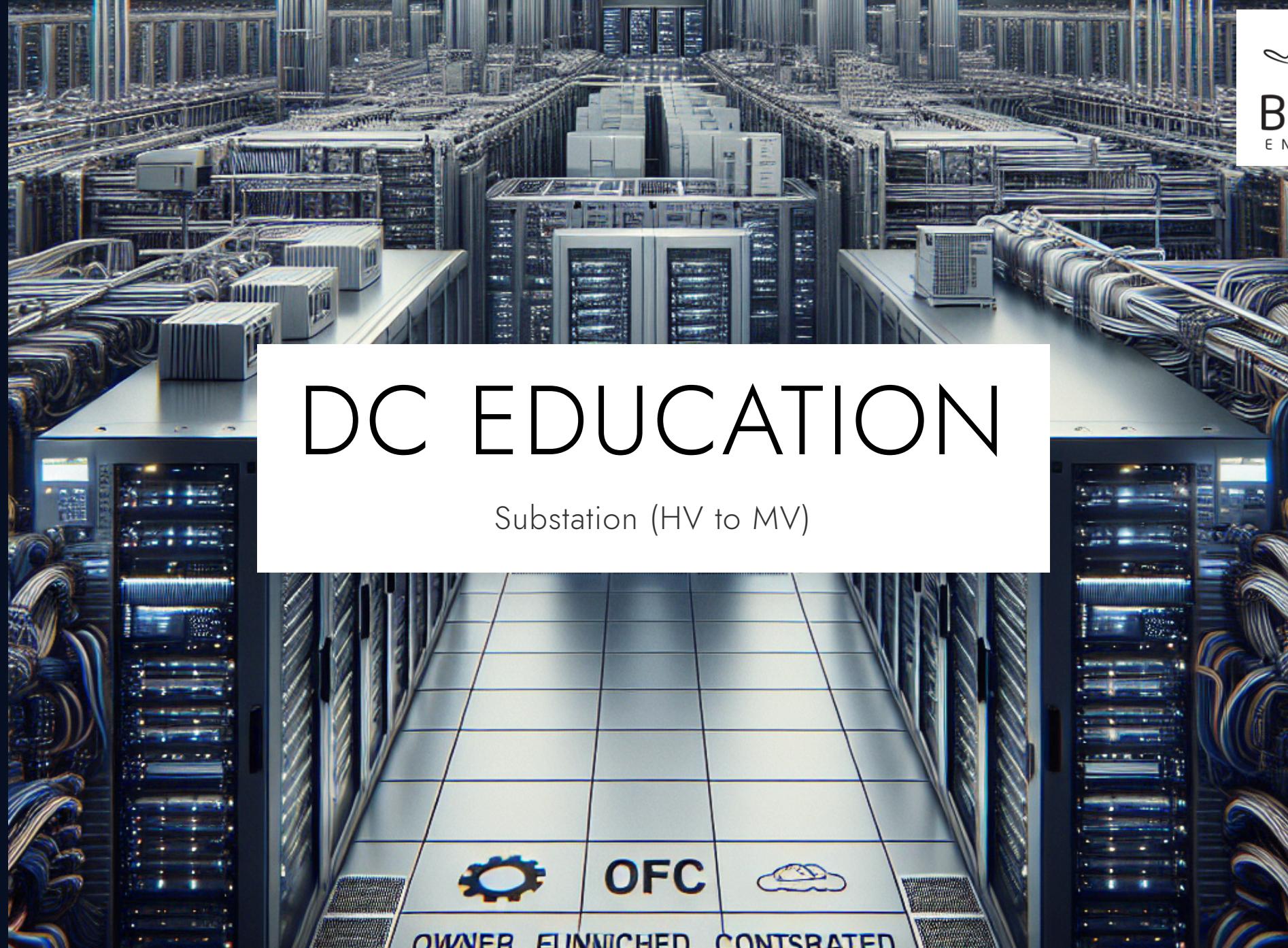


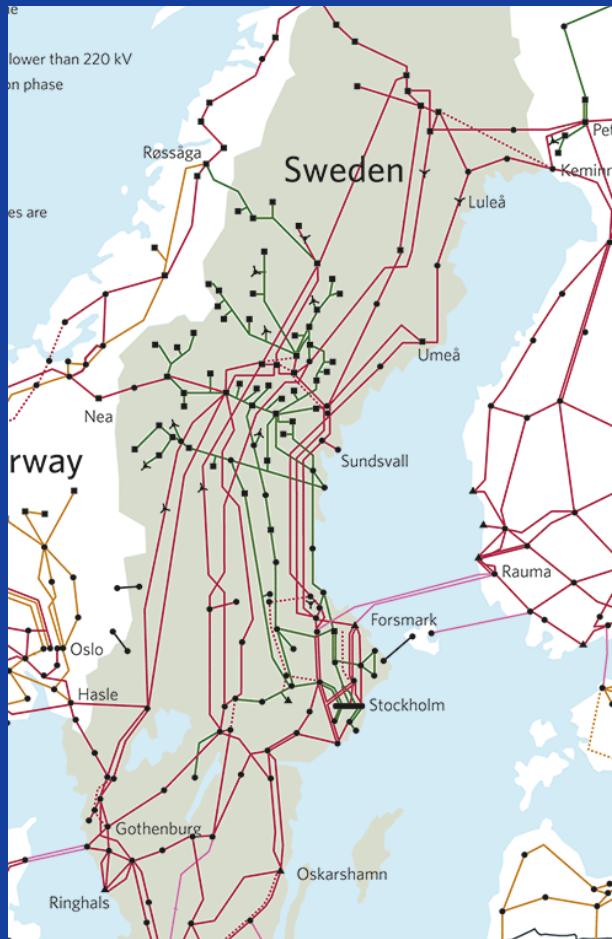
# DC EDUCATION

Substation (HV to MV)



# NATIONAL ELECTRICAL GRID

INTERCONNECTED NETWORK OF POWER TRANSMISSION LINES, SUBSTATIONS, AND GENERATING FACILITIES THAT DELIVERS ELECTRICITY



Electricity is generated  
at power plants



Transmitted over high-  
voltage power lines



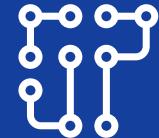
Designed to be  
reliable and resilient

# SUBSTATIONS

WHAT IS THEIR PURPOSE?



Transform Voltage  
from the grid (132kV)  
to medium voltage  
(MV - 22kV)



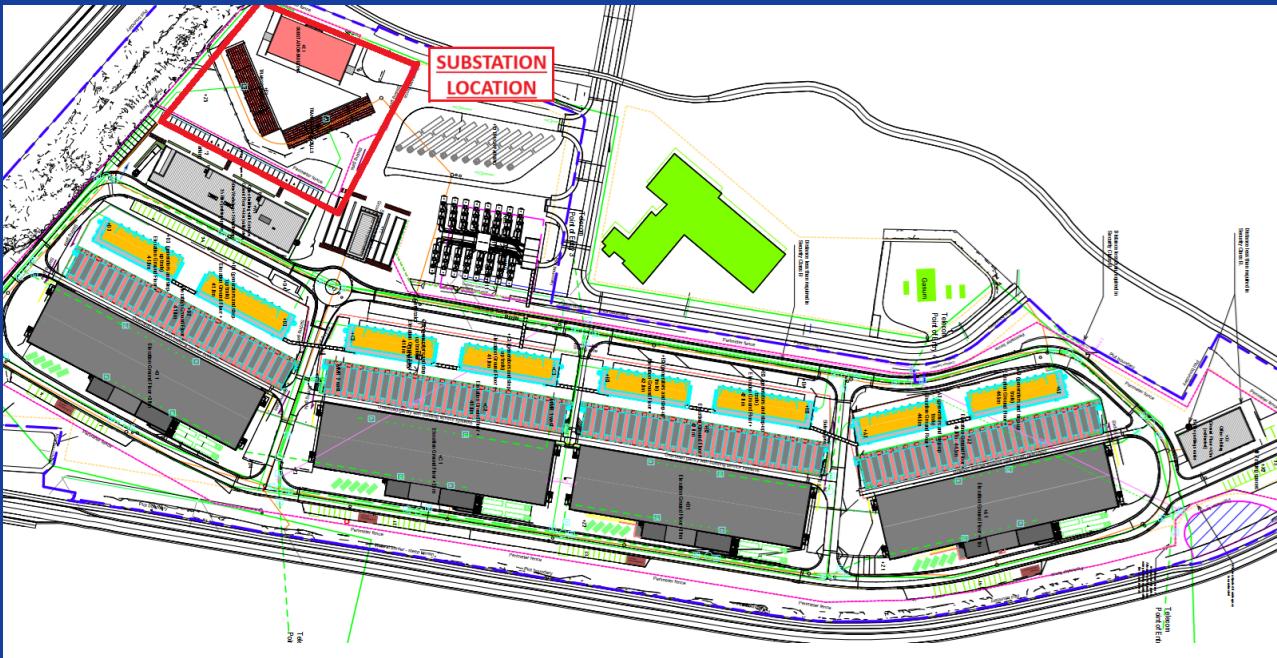
Distribute Power to the  
Data Center (DC) via  
switchgear and MV  
ducts



Protect, Monitor, and  
Switch circuits to  
ensure smooth DC  
Operation

# SUBSTATIONS

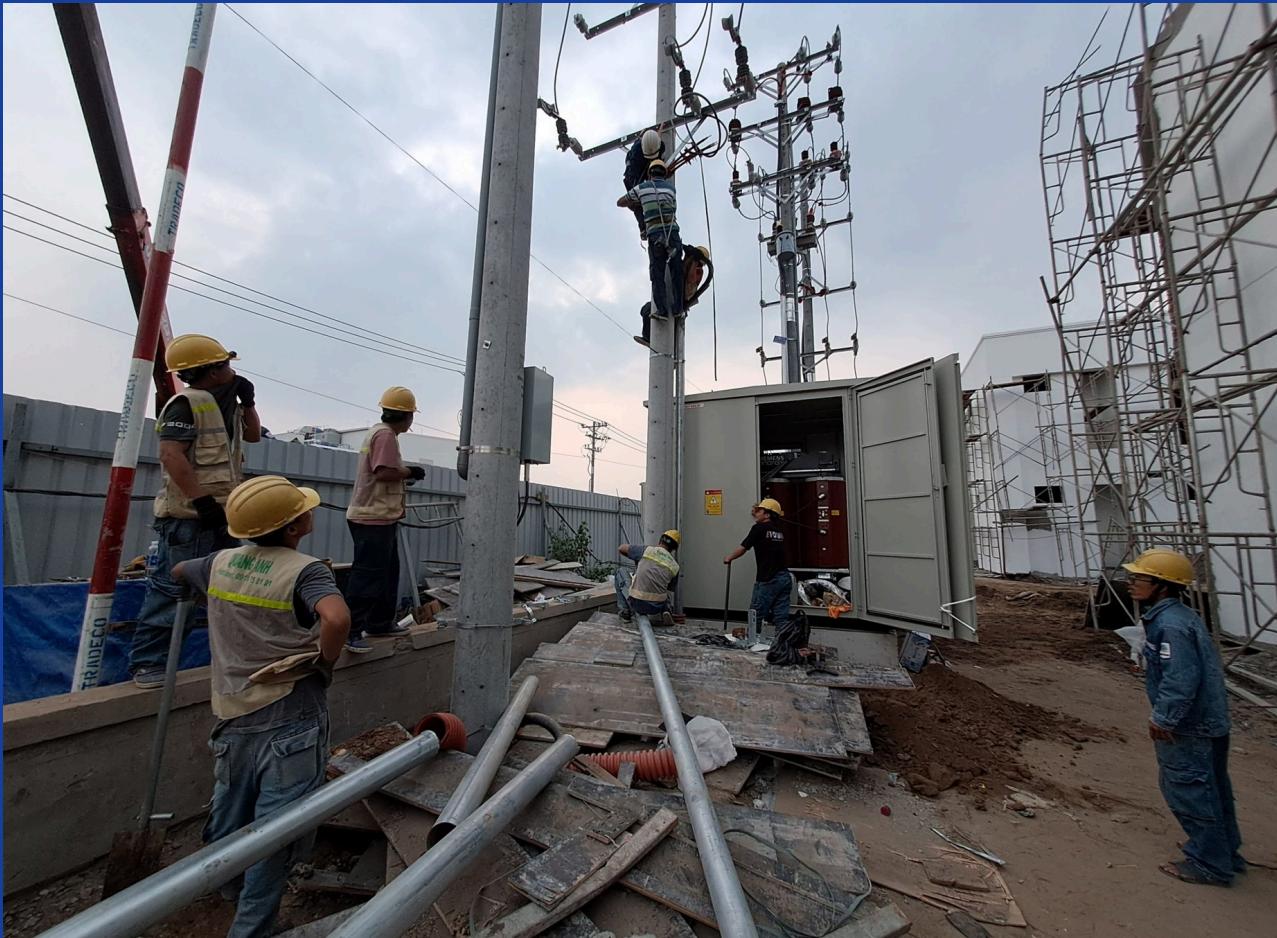
WHERE ARE THEY TYPICALLY LOCATED?



Typically located outside the DC campus

# SUBSTATIONS

WHO CONSTRUCTS?



Not Bravida.

Typically constructed by third party or utility company

# SUBSTATIONS

WHEN ARE THEY CONSTRUCTED?



To be constructed at beginning of project  
Work needs to be coordinated with early CSA work