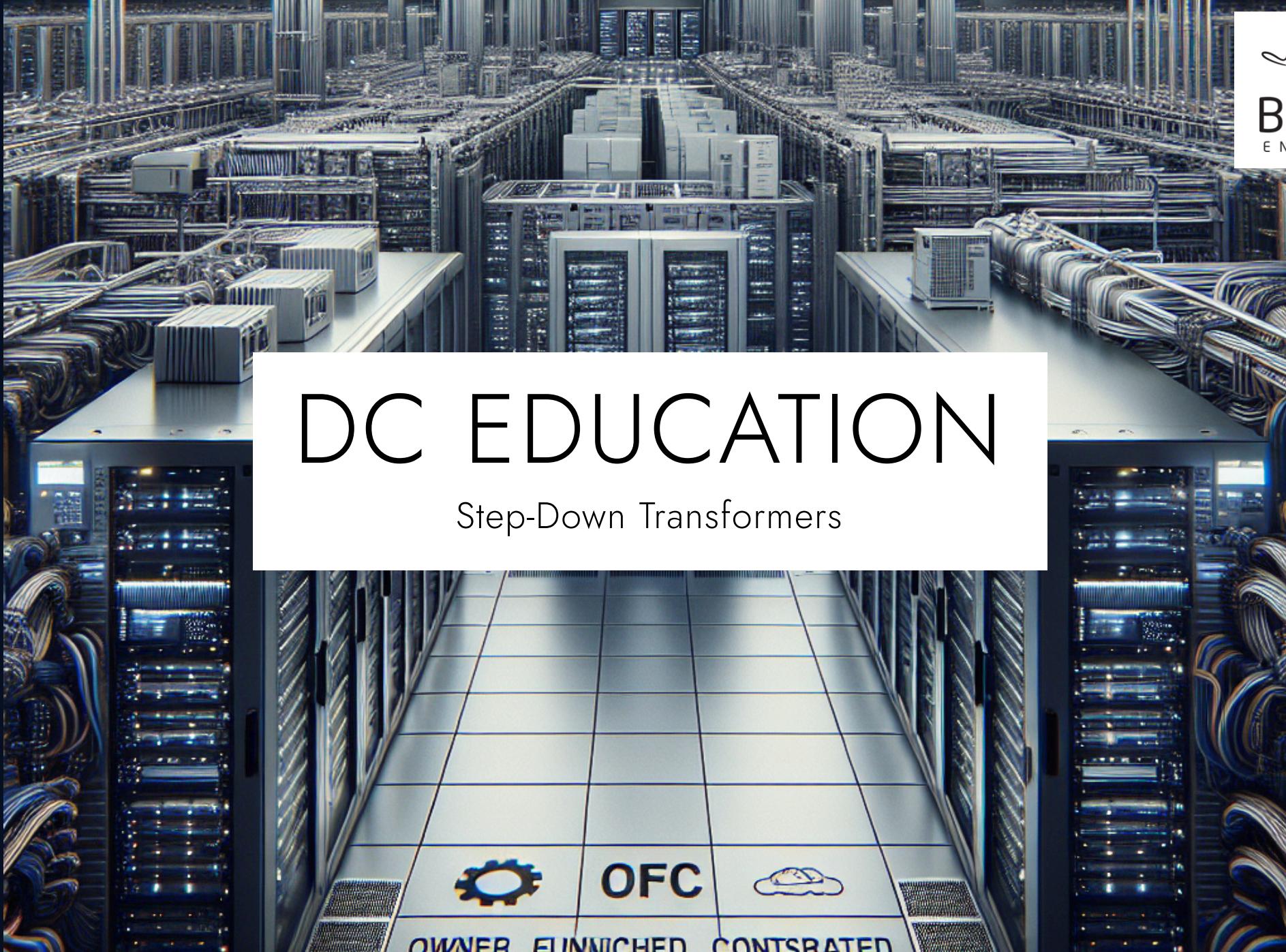


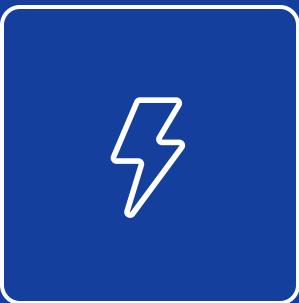
# DC EDUCATION

Step-Down Transformers



# STEP-DOWN TRANSFORMERS

WHAT IS IT?



Electrical equipment that reduces voltage from medium (22kV) to low (400V) voltage



Can be air or oil cooled

# STEP-DOWN TRANSFORMERS

WHY ARE TRANSFORMERS USED?



Electrical Equipment  
operates at 400V  
415V in some countries



Electricity is supplied  
to DC at higher  
voltage  
  
From Substation



Transformer supplies  
appropriate voltage to  
equipment

# STEP-DOWN TRANSFORMERS

WHERE ARE TRANSFORMERS INSTALLED?



After MV Switchgear  
Or after RMU if ring circuit  
is being used



Adjacent to Low  
Voltage Switchgear  
Exact location dependent  
on cooling requirements



Close to or inside DC

# STEP-DOWN TRANSFORMERS

WHO INSTALLS?



Can be installed by LVSG vendor or MV contractor  
Usually OFCI

# STEP-DOWN TRANSFORMERS

WHEN ARE THEY INSTALLED?



Early in construction

Coordination required between MV contractor and  
MEP contractor



Long lead times involved in  
manufacturing