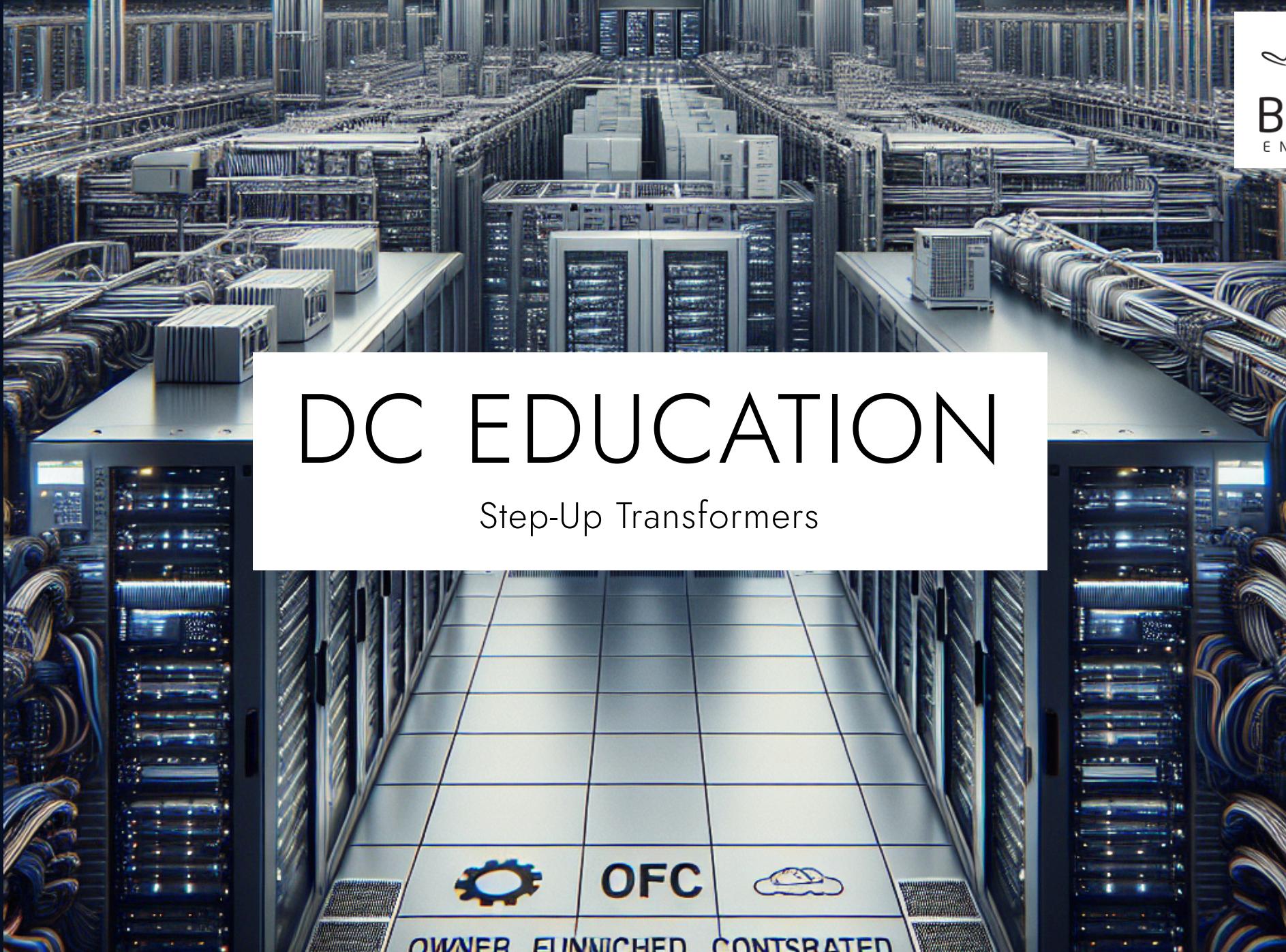


DC EDUCATION

Step-Up Transformers



STEP-UP TRANSFORMERS

WHAT IS IT?



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



Can be air or oil
cooled



Used to convert
generator power to
MV

STEP-UP TRANSFORMERS

WHY ARE GENERATORS USED?



Generators produce
electricity at 400V



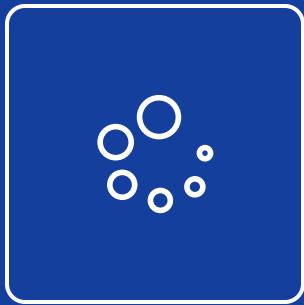
MV switchgear
operates on 22kV



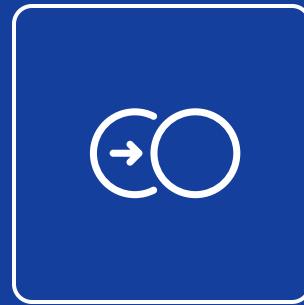
Transformer increases
generator power so
that it can replace MV
supply in case of
outage

STEP-UP TRANSFORMERS

WHERE ARE GENERATORS INSTALLED?



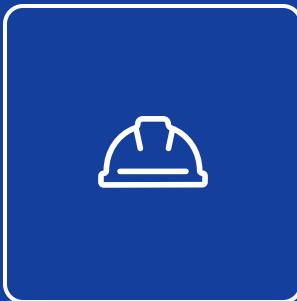
Adjacent to Generators



Before RMU, connected by MV cable

STEP-UP TRANSFORMERS

WHO INSTALLS?



Specialist subcontractor/Vendor
installs and tests generators

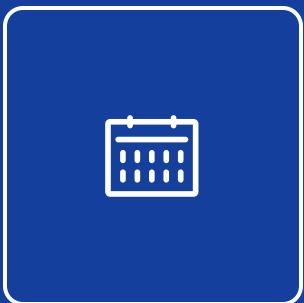
Can be in MV contractor or Generator
Vendor scope



For Lungo a specialist contractor will
install

STEP-UP TRANSFORMERS

WHEN ARE THEY INSTALLED?



Process to be engaged as early as possible in project



Long lead times involved in manufacturing



Coordination with Generator vendor required