



## NEW 30 MW CONDENSING STEAM TURBINE GENERATOR SET

### **STEAM TURBINE:**

Manufacturer: TGM WEG Energia model CTE40  
Type: Condensing  
Rating: 30,366 kw  
Inlet steam: 1500 psig/1000 °F  
Exhaust steam: 2.8" Hga  
Maximum inlet steam flow: 275,578 Lbs/hr  
Steam rate: 9.08 lbs/kwh  
Extraction steam: 4 uncontrolled and 1 controlled extraction 40 psig (0 to 255,00  
ls/hr) Inlet steam size: 10" extraction steam 24"  
Speed: 6000 rpm  
Rotation: CW from governor end

### **GEAR REDUCER:**

Manufacturer: TGM WEG  
Energia Input speed: 6000 rpm  
Output speed: 1800 rpm  
Rating: 37,047 kw  
Service factor: 1.3

### **GENERATOR:**

Manufacture/Type: TGM WEG Energia  
TEWAC Model: ST41  
Rating: 46,167 kva, 13800 v, 3 phase, 60 Hz  
Field: 125 v dc, 4.5 amps  
PF: 0.8  
Exciter: PMG , brushless type  
Speed: 1800 RPM

### **CONDENSER:**

Type: Water-cooled horizontal Steam condensed: 240,000 lbs/hr  
Cooling water flow: 31,630 gpm @ 95 °F Tubes: Stainless steel

### **SCOPE OF SUPPLY**

Steam Turbine complete mounted on skid  
Gear reducer



Generator with terminal box and exciter

Inlet stop valve

Lube oil system with lube oil tank, lube oil cooler, pumps

Gland steam condenser

Turbine control panel with PLC control, Woodward 505XT, PROTECH GII, SEL-400G, Bently Nevada 3500.

Condenser Warranty

HISTORY:

Year manufactured: 2021/2022 stored in warehouse original factory shipping crates

See Photos Below



