

# 2x 9.6 MW Wärtsilä 20V34SG

Natural Gas Generator Package

**Total Plant Capacity: 19.2 MW**

✓ ZERO OPERATING HOURS • ✓ COMPLETE TURNKEY PACKAGE  
Manufactured 2015 • Located in Texas

| \$833/kW | IMMEDIATE AVAILABILITY  
*New Surplus, Never Installed Turnkey Plant and Buildings*



## CONTACT

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Site visits available

## Package Overview

This power generation package includes two (2) Wärtsilä 20V34SG natural gas engines paired with ABB AMG 1120L generators. The engines have zero (0) operating hours and were most recently inspected in August 2024 by EMMP Engineering. Generator insulation tests were performed and both units passed with windings in excellent condition.

Parameter	Value
Engine Model	Wärtsilä W20V34SG
Quantity	2 units
Power Output (each)	9,600 kW (12,872 hp)
Total Capacity	19,200 kW (19.2 MW)
Fuel Type	Natural Gas (Spark Ignited)
Rated Speed	720 rpm (60 Hz)
Running Hours	0 hours (unused)

<b>Configuration</b>	20-cylinder, V-Type
<b>Rotation Direction</b>	Counter-clockwise (CWR)
<b>Generator Model</b>	ABB AMG 1120L110 DSE
<b>Generator Rating</b>	11,500 kVA / 9,370 kW
<b>Generator Voltage</b>	13,800 V (13.8 kV)
<b>Generator Year</b>	2015
<b>Sale Price</b>	Contact
<b>Price per kW</b>	\$833/kW
<b>Availability</b>	Immediate

## Individual Unit Details

### Unit #1 - Engine & Generator

<b>Engine Serial Number</b>	PAAE268158
<b>Engine Type</b>	W20V34SG
<b>Power Rating</b>	9,600 kW
<b>Speed</b>	720 rpm
<b>Running Hours</b>	0
<b>Generator Serial Number</b>	4646867
<b>Generator Model</b>	ABB AMG 1120L110 DSE
<b>Generator Rating</b>	11,500 kVA / 9,370 kW
<b>Generator Voltage</b>	13.8 kV
<b>Generator Manufactured</b>	2015
<b>Insulation Test (Aug 2024)</b>	PASSED

### Unit #2 - Engine & Generator

<b>Engine Serial Number</b>	PAAE268150
<b>Engine Type</b>	W20V34SG
<b>Power Rating</b>	9,600 kW
<b>Speed</b>	720 rpm
<b>Running Hours</b>	0
<b>Generator Serial Number</b>	4646868

<b>Generator Model</b>	ABB AMG 1120L110 DSE
<b>Generator Rating</b>	11,500 kVA / 9,370 kW
<b>Generator Voltage</b>	13.8 kV
<b>Generator Manufactured</b>	2015
<b>Insulation Test (Aug 2024)</b>	PASSED

## Equipment Included

This comprehensive package includes all equipment for a complete cogeneration plant installation:

### Main Equipment

- 2x Wärtsilä W20V34SG gas engines with ABB generators (gensets)
- 2x NA358 Turbochargers with waste gate systems
- 2x AVR (Automatic Voltage Regulators) for generators
- 2x Main Terminal Boxes for generators

### Cooling System

- 7x Radiator assemblies (FBLGC-990-18L-3B12-96DN80S6)
- Spare motors (6.6 kW, 12-pole) and fan blades
- Spare bearings (6211 C3, 6311 C3)
- Service switches for radiator fans

### Exhaust System

- 2x Exhaust gas silencers (NS 1200)
- Waste gate exhaust pipes and systems
- Sealing rings and gaskets

### Electrical & Control Systems

- 2x Auxiliary transformers (2000 kVA and 1600 kVA, oil-immersed)
- HV cable boxes and accessories
- Control panels: CFA901, CFA902, CFA903, CFC011
- Control panels: CFE011, CFE021, CFE031
- Electrical panels UPC and MCC (with Siemens modules)
- Frequency converters
- Comprehensive spare parts for control systems

### Auxiliary Systems

- Lube oil unloading pump unit
- Lube oil transfer pump units (double & mobile)
- Sludge transfer pump unit (manual)
- Oily water transfer pump unit (automatic)
- Feed water pumps (centrifugal, 2 units)
- Boiler washing water pump
- Expansion vessel 600L

- Maintenance water tank 6m<sup>3</sup> (60Hz)

## Storage Tanks

- Recycled water tank 20m<sup>3</sup>
- Clean lube oil storage tank 13m<sup>3</sup>

## Building & Structural Components

- Water treatment building steel structure
- Water treatment unit piping (multiple packages)
- 2x Overhead cranes (5-ton capacity)
- Access floor panels (600x600x36 calcium sulphate)
- Blow down cooling modules
- Steam header and steam drums
- Condensate transfer pump unit

## Condition & Inspection Summary

The engines and generators were inspected in August 2024 by EMMP Engineering. Key findings:

### Engine Condition

- Both engines have zero (0) running hours
- Annual long-term storage maintenance performed
- Preservation protocols followed per Wärtsilä specifications

### Generator Insulation Test Results

- Stator winding insulation test: 5000 VDC applied - PASSED
- Rotor insulation test: 1000 VDC applied - PASSED
- Excitation insulation test: 1000 VDC applied - PASSED
- Windings found in perfect condition
- PT100 temperature sensors calibration verified - no critical deviations
- Insulation readings exceed 5000 megohms (excellent condition per IEEE)

### Available Documentation

- EMMP Engineering Inspection Report (September 2024)
- Complete packing lists for all shipments (7 shipment packages)
- Generator insulation test reports with Megger readings
- PT100 calibration verification data
- Wärtsilä 34SG specification sheets

*For detailed specifications, inspection reports, and pricing inquiries, please contact us.  
Site visits can be arranged at the Texas facility.*