

# Classifying component manufacturing across next-generation geothermal supply chains

Examples are illustrative and do not reflect a full accounting of all six-digit NAICS (North American Industry Classification System) codes associated with each supply-chain stage, phase, or approach to next-generation geothermal electricity production.

Six-Digit NAICS Code	Industry Description	Next-Generation Geothermal Application(s)
327310	Cement Manufacturing	High-temperature well cement
331210	Iron and Steel Pipe and Tube Manufacturing from Purchased Steel	Well casing and tubing material
332410	Power Boiler and Heat Exchanger Manufacturing	Shell-and-tube heat exchangers; organic Rankine cycle (ORC) evaporators and preheaters
332710	Machine Shops	Computer numerically controlled (CNC) machinery
332911	Industrial Valve Manufacturing	Production and injection wellhead valves
333132	Oil and Gas Field Machinery and Equipment Manufacturing	Drilling rigs and mechanical drill bits
333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	Air-cooled condensers for binary and ORC plants
333611	Turbine and Turbine Generator Set Units Manufacturing	Steam turbines (flash cycle); ORC turboexpanders (binary cycle)
333914	Measuring, Dispensing, and Other Pumping Equipment Manufacturing	Electrical submersible pumps (ESPs), line-shaft pumps, injection pumps
333998	All Other Miscellaneous General Purpose Machinery Manufacturing	Flash separators, steam-separation and demisting equipment
334419	Other Electronic Component Manufacturing	Corrugated metallic waveguide and beam-delivery components for millimeter-wave drilling
334511	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing	Measurement-while-drilling (MWD) tools, rotary steerable systems (RSS), logging-while-drilling (LWD) tools
334513	Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables	Downhole sensing equipment
334519	Other Measuring and Controlling Device Manufacturing	Seismometers and other geophysical surveying instruments
335311	Power, Distribution, and Specialty Transformer Manufacturing	Step-up transformers for plant-to-grid interconnection
335312	Motor and Generator Manufacturing	Generators and alternators
335313	Switchgear and Switchboard Apparatus Manufacturing	Switchgear for power plant
335314	Relay and Industrial Control Manufacturing	Process-control relays for plant operations
335921	Fiber Optic Cable Manufacturing	Distributed fiber-optic sensing cable for downhole monitoring
335999	All Other Miscellaneous Electrical Equipment and Component Manufacturing	Gyrotrons for millimeter-wave drilling