

Commercial and Enterprise Applications

Use Cases at a Glance



Primary Application	How FreeWave Is Used
Oil & Gas	<ul style="list-style-type: none"> Supervisory Control and Data Acquisition (SCADA) Sensor communication (C1D1, C1D2) Plunger lift Tank levels and water meters Pumps, valves, and flow lines Auto Vehicle Location (AVL) Flare stacks Dehydrator temperature Separator pressure Emergency Shut Down (ESD) Cathodic protection Network resiliency (mesh to re-route, cell for backup)
Water/Wastewater	<ul style="list-style-type: none"> Storage tank levels Master meters – turbines, magnetic flow Pumping stations Sewer lift stations Treatment plants Chemical injection sites Specialty process control devices
Smart Grid & Solar	<ul style="list-style-type: none"> Distribution Management (DMS) Distribution Automation (DA) Substation Automation (SSA) Load Management (LM) Demand Response (DR) Energy Management (EMS) Supervisory Control and Data Acquisition (SCADA)
Environmental Monitoring	<ul style="list-style-type: none"> Seismic monitoring Geothermal monitoring Subsea monitoring Water level monitoring River flow monitoring Leak detection Levee performance testing
Electric Power & Utilities	<ul style="list-style-type: none"> Power generation stations Infrastructure Emissions control Fault Condition Indicator (FCI) Supervisory Control and Data Acquisition (SCADA) Auto Meter Infrastructure (AMI) backhaul Capacitor bank monitoring Recloser communications Regulator monitoring
Location Tracking	<ul style="list-style-type: none"> Food & beverage communication Irrigation control Golf, distance from pin
Precision Agriculture	<ul style="list-style-type: none"> Precision steering and guidance Irrigation Fertilizer and pesticide application Feedlot controls
Turf & Pivot Irrigation	<ul style="list-style-type: none"> Center pivot mobile water system Water control above ground for canals Ground based water source

Other Applications	How FreeWave Is Used
Mine Safety & Rescue	Emergency communications, video monitoring
Wind Turbine	Gas content, radon, vibration monitoring
Asset Management	Stationary asset monitoring, predictive analytics
Fleet Management	Mobile asset monitoring, predictive analytics
Traffic Control	Traffic control, video monitoring
Education	School campus – last mile, remote research, video monitoring/surveillance
Healthcare	Virtual medicine, remote diagnostics and diagnosis, last mile connectivity
Public Safety	Police, EMS, 1st responders, video monitoring/surveillance