

Wide Area Monitoring, Control & Automation Solutions

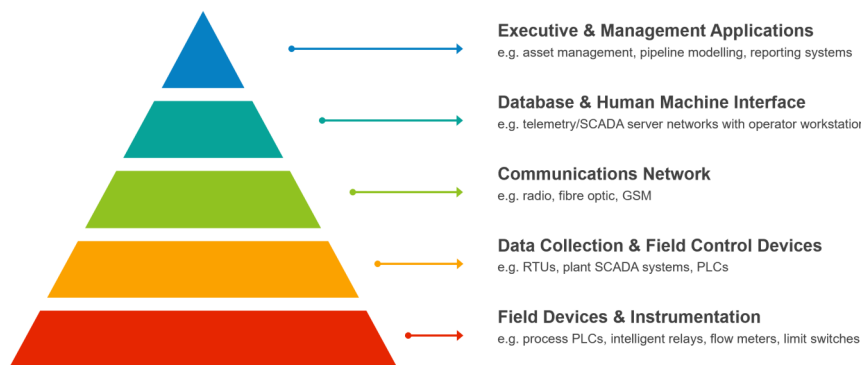


Spectrum Group core business focusses on critical infrastructure projects, which always benefit from well-conceived centralized monitoring, control and executive management applications for their assets.

The nature of infrastructure projects means that both the wide area solution, and the applications that are bespoke to each client, should be considered from the early stages of the design process.

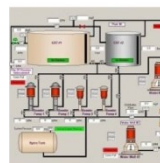
Born out of these requirements, Spectrum has grown in-house expertise and a proven track record of implementing all aspects of such systems. For examples of our clients and successful projects, refer to the right-hand pane of this sheet.

Spectrum is vendor agnostic and can provide a complete solution using the most appropriate hardware and software that covers all layers of the pyramid hierarchy:



Spectrum can engage with clients in a number of ways, typically one or a combination of the below:

- **Turnkey:** design, supply and complete implementation
- **Subcontract:** specialist services and equipment supply
- **Advisory:** design and partial supply of engineered solutions; management and oversight services for projects and testing
- **O&M:** specialist operations and maintenance contracts



SPECTRUM EXPERIENCE BRIEF

Core Infrastructure Sectors:

- Water & Wastewater
- Power
- Renewables
- Oil & Gas

Typical Wide Area Applications:

- Clean & dirty water networks
- Water, oil & gas pipelines
- Power generation and distribution
- Hybrid solar & RE grids
- Data radio networks

Typical Executive Applications:

- Pipeline management
- Leak detection
- Hybrid grid stability
- Power management
- Asset management & maintenance

Sample Contracts Completed:

- Hybrid Grid Stability SCADA
- Pipeline SCADA with leak detection
- Pipeline management & ESD
- Radio path surveys & link upgrades
- Multi-vendor SCADA integration
- SCADA & radio tech support services
- SCADA and plant maintenance

Some of Our Clients:

- Tesla Inc.
- First Solar
- Sheraton Hotels & Resorts
- Pak-Arab Refining Company
- Electric Power Corporation
- MPower Projects
- Schneider Electric

More Information:

Web: <http://www.spectrumscada.com>
 Contact: scada@spectrum-group.net