STEFANO RUEDE *Controls Engineer*

PROFILE

Stefano Ruede is the Controls Engineer at ENERGYneering Solutions, Inc. (ESI). For over 25 years, Stefano has designed and implemented information and control systems in the aviation, manufacturing, and renewable energy industries. Prior to coming to the United States, Stefano worked in his native country of Switzerland to design information systems for Pilatus Aircraft Ltd and Grapha Informatik AG. Since joining ESI in 2008, Stefano has been involved in Supervisory Control and Data Acquisition (SCADA) system design for over 25 gas-to-energy projects. Stefano's SCADA experience includes condensate collection control systems, flare integration, power systems, and facility integration. In addition to gas-to-energy projects, Stefano has been involved with the Bonneville Power Administration (BPA), designing SCADA systems for control of utility substations.

EDUCATION

BS, Computer Science, Swiss College for Management and Economics, 1990

PROFESSIONAL LICENSES

Certified Wonderware Integrator
Swiss Federal Certification as a Machine Mechanic
Swiss Federal Certification for Project Management and Planning

PROFESSIONAL EXPERIENCE

ENERGYNEERING EXPERIENCE

LFG Collection SCADA systems

- Condensate Control
- Leachate Pumping Systems
- Compression Skid Monitoring
- Flare Monitoring

Power Generation Facility SCADA systems

- System Critical/ Max. Capacity SCADA Design
- Remote Monitoring
- Total Facility Integration
- Compression Skid and Flare Integration
- Operator Callout Systems
- Operational Data Management Systems

Utility SCADA Systems

- Substation monitoring

TECHNICAL EXPERTISE

SCADA System Bases

- Wonderware (InTouch, Historian, HMI Reports and Active Factory)
- Ignition
- Status Vision Designer
- CiTect

Programming Languages

- Java & Javascript, C#, 4GL Uniface, C, C++, RPG400, RPG III, CL, SQL, Python.

Web Servers

- Java Web Server, Apache, IIS

I/O Servers

- Kepware, Matricon, DAServer

GUI API

- Visual Studio, Motif, Uniface

Data Bases

- *SQL Server, Oracle, Sybase, MySQL PostgreSQL, IBM DB2*

SAMPLE PROJECTS

POWER GENERATION FACILITY SCADA SYSTEMS

- Miramar Power Facility, Miramar, CA
  SCADA system design and installation for a 3.2MW Landfill Gas-to-Energy (LFGTE) Facility. Included system critical systems for monitoring generation/ supply to the nearby Marine Corps Air Base.
- Baseline, Ocala, FL
  SCADA system design and installation for a 3.2MW LFGTE facility. Included operator callout system.
- Trinity Oaks, Dallas, TX
  SCADA system design and installation for a 3.2MW LFGTE facility
- Ostrom Road, Wheatland, CA
  SCADA system design and installation for a 1.6MW LFGTE facility with integrated flare/blower system. Operator callout system included.
- Finley Buttes, Boardman, OR
  SCADA system design and installation for a 4.8MW LFGTE facility with a CAIN heat recovery system. Integrated remote flare/blower station monitoring.
- *Santa Cruz Resource Recovery, Santa Cruz, CA SCADA system design and installation for a 1.6MW LFGTE facility. Included full remote access with operational trending and reporting*
- *PPL Renewable Facility, Shippensburg, PA SCADA system design and installation for a 6.2MW LFGTE facility*
- *PPL Renewable Facility, Waterbury, VT SCADA system design and installation for a 3.2MW LFGTE facility*
- *Northern Tier Landfill, Burlington, PA SCADA system design and installation for a 1.6MW LFGTE facility*
- *Richmond LFGTE Facility, Richmond, VA SCADA system design/installation for 6.4MW LFGTE Facility and integration with existing flare/GCCS system*
- *Carbon Limestone Landfill, Lowellville, OH Citect SCADA system design/installation for 3.2 MW facility and integration with 14MW existing SCADA system*
- *Lorain County Landfill, OH Ignition system design/installation for 16 MW LFGTE facility and integration with 14MW existing SCADA system*
- *Roseburg LFGTE Facility, Roseburg, OR SCADA design for 1.6 MW LFGTE Facility and integration with GCCS control systems*
- *Otay LFGTE Facility, San Diego, CA SCADA design for 3.2 MW LFGTE Facility and integration with existing LFGTE facility*
- *Rochelle LFGTE Facility, IL SCADA design/ control systems for 4.8 MW LFGTE facility and integration with GCCS control systems*
- *Three Mile Canyon Farm, Boardman, OR SCADA design for 4.8 MW digester energy facility w/ heat recover, integration with digester gas collection system*
- *KCP&L LFGTE Facility, St. Joseph, MI (Ignition) SCADA design for 1.6 MW LFGTE Facility and integration with GCCS control systems and flare control systems.*
- *LRI LFGTE Facility, Graham, WA (Ignition) SCADA design for 4.8 MW LFGTE Facility and integration with GCCS control systems*

SAMPLE PROJECTS *(continued)*

LFG COLLECTION SYSTEMS

- Knott Landfill, Bend, OR
  SCADA control systems for the landfill's leachate pumping systems and LFG collection systems
- New River Landfill, Raiford, FL
  SCADA control and monitoring systems for the landfill's compression skid/flare station

UTILITY SCADA SYSTEMS

- BPA ALVEY Substation, Eugene, OR
  SCADA system for the control and monitoring of substation's high voltage transmission lines.