



In addition to providing Orion and Bitronics® products, NovaTech offers engineering, support, and training services to assist customers in meeting demanding project and construction schedules. NovaTech engineers are experienced in configuring, packaging, and commissioning Orion and Bitronics products as well as third party products, including D20 RTUs, PLCs, HMIs, radios, and relays.

With offices in more than a dozen locations, engineers from the NovaTech Utility Systems and Services group can work locally with utilities to extend the life of existing infrastructure and increase the return on installed assets.

**RTU Panel Engineering and Packaging**

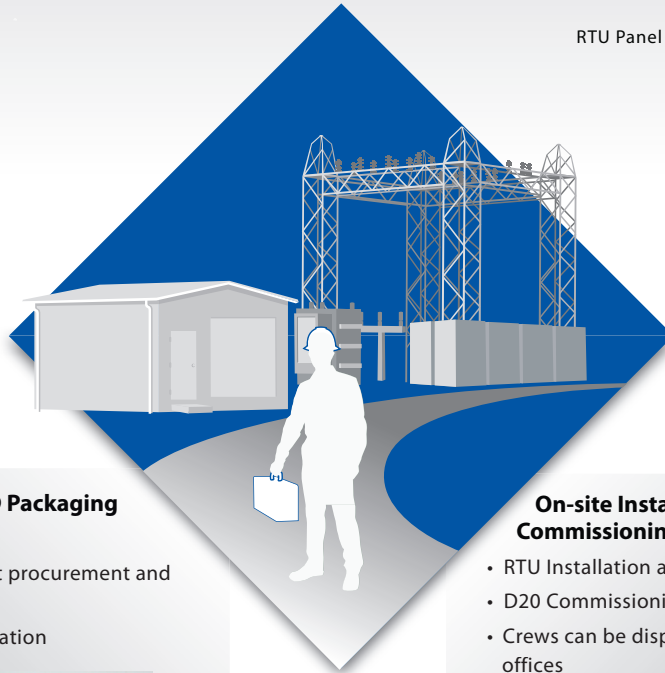
- Panel design
- Third-party equipment procurement
- Panel assembly and wiring
- Factory Acceptance Test
- Onsite installation and commissioning
- Documentation
- Training
- Project Engineering



NovaTech engineer checking out RTU panel with HMI and automation controller



RTU Panel with Orions and DDIOs



**Instrumentation / IED Packaging**

- Custom Mounting
- Third-party equipment procurement and integration
- Testing and documentation



Custom enclosure with Bitronics 70 Series instrument and peripherals

**On-site Installation and Commissioning Services**

- RTU Installation and point-to-point checkout
- D20 Commissioning
- Crews can be dispatched out of NovaTech offices



On-site at DC-area substation



## Utility Systems and Services Summary of Capabilities

### Systems and Engineering Services

#### Programmable Logic Controller (PLC) Engineering

- Logic generation, testing, and documentation
- Mounting and wiring

#### SCADA and HMI Engineering

- Conventional (PC-based) and Web-based SCADA
- Database generation
- Communications engineering
- HMI screen development
- RTU engineering
- Project Engineering

#### Distribution Automation Systems Engineering

- Configuration for fault isolation and restoration
- Configuration of load checking logic
- Simulation and testing
- Communications / radio engineering
- Project Engineering

#### Radio Systems Engineering

- Site survey
- System design
- Coordinate work with installation contractor

#### Electrical Mechanical Relay "Upgrade"

Services to configure, install, and commission Bitronics instruments alongside E/M relays to provide SCADA and recording.

#### Power Generation/Boiler Efficiency Services

- Operational efficiency
- Alarm management
- Sustainability and stability
- Regulatory compliance
- Reliability improvements
- Infrastructure life-extension

#### .001Hz Certification Service

- To satisfy NERC requirements for generation sites
- Return Bitronics instrument for testing and certification

### Support and Training Services

#### NCare Services Agreement

- Training and support
- Annual protocol licenses
- Extended life-cycle
- Universal configurations
- Supply Chain and procurement programs

#### Educational Services

- Customized Training
- Conducted on-site or at one of our training locations
- Technology Courses
  - > Product Courses
    - Orion Automation Processor
    - Distributed I/O Products
    - Bitronics 70 Series IED
  - > Application Courses
    - SEL<sup>®</sup> Relay Integration
    - Email
    - Math and Logic
    - Webpage Design
    - SER and Alarms Configuration
  - > Technology Courses
    - Ethernet in Substations
    - DNP3
    - Serial Communications

### About NovaTech

With more than 30 years of experience, NovaTech, LLC is a proven supplier of solutions for process automation, electric power measurement and substation automation.

NovaTech products and services are designed around open automation standards and latest technologies – this provides customers with long product life cycles and superior long-term value. We are committed to improving and expanding our solutions with a level of versatility and ease-of-use unmatched by the competition.



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