





# Systems Completion & Startup - European Defence Facility

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## Systems Completion & Startup - European Defence Facility

**Client:** European Defence Authority

**Location:** Europe

**Project Type:** Power Generation Systems Completion & Startup

**Partner:** Red Sky Energy (RSE)

### Delivery Overview

RedSky Energy (RSE) was engaged to deliver systems completion, startup, and mission-critical service testing at a high-security power generation site within a European defence facility.

### **The site infrastructure included:**

- ❖ Multiple diesel generators
- ❖ High voltage (HV) switchboards
- ❖ Frequency converters
- ❖ Integrated Power Management Systems (PMS)

The facility's performance and reliability were essential to supporting defence operations, making safe execution and precise startup critical to project success.

### **Challenges**

The main contractor had limited experience in system completions and startup procedures, resulting in gaps in planning, traceability, and testing coordination. The key challenges included:

- ❖ Absence of a structured completions framework
- ❖ Lack of familiarity with regulatory and operational startup procedures
- ❖ High sensitivity of the defence environment, requiring strict regulatory compliance (e.g., ITAR)

## Solution

RSE deployed its proven Completions Management System (CMS) to lead the testing and commissioning process. This approach ensured:

- ❖ Structured inspection and functional testing of all generation units and HV frequency converters
- ❖ Clear work package definition and traceable execution
- ❖ Sequenced load testing, synchronization, and load sharing validation
- ❖ Accelerated progress through tested workflows and automated tracking

RSE also implemented strict ITAR compliance controls, including:

- ❖ Controlled access to sensitive documentation
- ❖ Secure data handling and audit trails
- ❖ Full coordination with multinational stakeholders to ensure legal and procedural adherence

## Implementation Approach

Collaborative Execution: RSE worked hand-in-hand with a multinational team under controlled access conditions.

- ❖ Phased Commissioning: Systems were tested individually before progressing to integrated performance testing.
- ❖ Compliance & Security: Full alignment with ITAR and internal defence security standards.

## Results

- ❖ Project completed ahead of schedule
- ❖ All power generation and control systems tested and operational
- ❖ Successful synchronization and load sharing achieved
- ❖ Zero compliance breaches in a regulated defence environment

The application of RSE's structured CMS enabled a fast, secure, and quality-focused execution—reinforcing its suitability for sensitive, mission-critical environments.



## Conclusion

RedSky Energy's deep expertise in systems completions, startup, and regulated execution proved critical to the success of this defence infrastructure project.

By applying a robust, compliant methodology and collaborating effectively with a multinational delivery team, RSE delivered a benchmark project that strengthened infrastructure resilience and operational readiness in one of Europe's most secure environments.





**Thank you**

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