

# SWIFT DEPLOYMENT OF SWITZERLAND'S EMERGENCY POWER - TRPP

**BIRR - SWITZERLAND**

## BACKGROUND

### Enhancing Switzerland's Emergency Reserve Capacity

Facing an energy crisis brought on by reduced winter hydropower generation, limited gas reserves, and the broader EU energy instability following the Russia-Ukraine conflict, Switzerland took decisive action. The country lacked emergency backup generation and urgently required a fast, reliable, and temporary solution.

The Birr TRPP (Temporary Reserve Power Plant) is a 250 MW facility utilizing eight dual-fuel turbines. The project was initiated by the Swiss Federal Energy Agency (SFOE) and implemented in collaboration with industry-leading turbine manufacturer & global energy technology provider and Prismecs.

## KEY OBJECTIVES

**Deploy a 250 MW Reserve Plant in 6 Months, The Swiss government's goal was bold and clear:**



Rapidly deploy a mobile, high-capacity power solution



Ensure reliable integration into the national grid



Adhere to Swiss environmental and safety regulations






Be fully operational by February 2023, ahead of winter peaks



# FROM CHALLENGE TO IMPACT

## How Prismecs Delivered

	 Challenge	 Our Solution	 Impact
Accelerated Timeline	6-month deadline, no room for error	Deployed a seasoned TM2500+ team within weeks; fast-tracked BOP installation using modular bolted tanks	<b>Commissioned on time</b> , providing <b>critical reserve power</b> during a <b>high-demand winter</b>
Site Constraints	Limited space in a compact parking lot	Designed a tight-layout execution strategy to optimize space without compromising safety	Successfully <b>installed 8 TM2500+ units</b> with <b>full auxiliary systems</b> in <b>limited space</b>
Grid Integration	220kV connection built in months instead of years	Worked closely with Swiss authorities and global tech provider to align site and grid milestones	<b>Achieved on-time grid connection</b> , ensuring <b>reserve power</b> was <b>grid ready</b> when needed most
Environmental Impact	Residential proximity posed noise challenges	Implemented a 20-meter acoustic wall and noise mitigation strategies	<b>Met Swiss noise regulations</b> , ensuring <b>community support</b> and <b>environmental compliance</b>
Resource Mobilization	Skilled professionals needed on short notice	Mobilized a multicultural, multidisciplinary team experienced in turbine systems	<b>Enabled rapid progress</b> without delays, creating <b>a collaborative work culture</b>
Equipment Identification	Risk of confusion with identical assets	Implemented KKS coding to uniquely label and track every asset in CMMS	<b>Eliminated ambiguity</b> , <b>cut search time</b> for maintenance history, and <b>improved reporting</b>
Maintenance Classification	Inconsistent tracking hindered KPI visibility	Adopted EN-13306 standard to standardize maintenance types in CMMS	<b>Generated reliable KPIs</b> and insights to <b>improve maintenance strategy</b>
Inventory Management	Lack of tracking leading to inefficiencies	Deployed a CMMS-integrated inventory module with controlled part issuance and tagging	<b>Enabled real-time stock visibility</b> , <b>avoided part misuse</b> , and <b>improved procurement planning</b>



## TRANSFORMATION ON THE GROUND

Prismecs' deployment was not limited to field execution. A full Computerized Maintenance Management System (CMMS) was implemented, creating a single source of truth for:



**Asset lifecycle management**



**Compliance tracking & performance KPIs**



**Spare parts inventory & movement**



**Work order history and backlog visibility**



# MEASURING SUCCESS

## 100%

### ZERO SAFETY INCIDENTS

100% safety achieved through Swiss-grade protocols

## 24/7

### REAL-TIME OPERATIONAL VISIBILITY

CMMS digitization brought 24/7 system insights

## On Time

### DELIVERY

Project delivered on schedule despite extreme conditions



### STRATEGIC MAINTENANCE GAINS

Standardized workflows, enabling long-term plant optimization



### STRENGTHENED CLIENT TRUST

Trust and compliance elevated with strong regulatory alignment



### DIGITALLY OPTIMIZED PERFORMANCE

Transparency, speed, and accountability achieved through digital transformation



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