

# 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



+1 (888) 774 7632



[sales@prismecs.com](mailto:sales@prismecs.com)



11111 Katy Freeway, Suite 910,  
Houston TX 77079



[www.prismecs.com](http://www.prismecs.com)

# FROM CHALLENGE TO IMPACT

## How Prismecs Delivered

	 Challenge	 Our Solution	 Impact
<b>Accelerated Timeline</b>	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>
<b>Site Constraints</b>	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>
<b>Grid Integration</b>	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
<b>Environmental Impact</b>	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>
<b>Resource Mobilization</b>	Skilled professionals needed on short notice	Mobilized a multicultural, multidisciplinary team experienced in turbine systems	<b>Enabled rapid progress</b> without delays, creating a <b>collaborative work culture</b>
<b>Equipment Identification</b>	Risk of confusion with identical assets	Implemented KKS coding to uniquely label and track every asset in CMMS	<b>Eliminated ambiguity, cut search time</b> for maintenance history, and <b>improved reporting</b>
<b>Maintenance Classification</b>	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>
<b>Inventory Management</b>	Lack of tracking leading to inefficiencies	Deployed a CMMS-integrated inventory module with controlled part issuance and tagging	<b>Enabled real-time stock visibility, avoided part misuse, and improved procurement planning</b>



## TRANSFORMATION ON THE GROUND

Prismeecs' 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



+1 (888) 774 7632



[sales@prismeecs.com](mailto:sales@prismeecs.com)



11111 Katy Freeway, Suite 910,  
Houston TX 77079



[www.prismeecs.com](http://www.prismeecs.com)