

Jubail O&M Company

Automated key management solutions
Highest availability with minimal downtime

traka
ASSA ABLOY

Experience a safer and more open world



THE COMPANY

Founded in 2008 and located in the Jubail industrial City of Saudi Arabia, Jubail Operations & Maintenance Company (JOMEL) is responsible for the operation and maintenance of the Marafiq Independent Water and Power Project (IWPP), one of the largest and most sophisticated power & desalination plants in the world. This efficient and environment-friendly plant can produce 2,743.6 Mega Watt of electricity and 8,000,000 cubic meters of water every day.

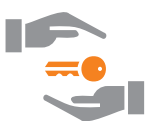
CHALLENGES

With more than **230 staff operating at a single site**, the manual process of **managing and controlling** of the facility's critical keys to electrical switchgear, hazardous systems, vital plant compartments and equipment has been a challenging task as the number of keys continue to grow as the business scales up over the years.



EFFICIENCY & PRODUCTIVITY

Searching for the **right keys** to provide access to the authorised personnel became a tedious chore during busy hours.



HIGH ADMINISTRATION COST

Keys are **managed manually** under the supervision of operations leaders, to ensure that only authorised users had access to the specific keys.



AUDIT REVIEW

Key movements were recorded on a logbook with handwritten details of keys signed in and out with staff's signature that became **illegible** over time.

SOLUTIONS

Traka's **key management systems** were installed to streamline the operational process:

- Keys to critical equipment and plant rooms are **safely stored** when they are most needed
- Keys are **automatically distributed** to authorised user
- **Full audit trail** of all users and key movements is retained within the system and software, TrakaWEB



REDUCED DOWNTIME (SPEED OF ACCESS)

Description search feature for keys that helps staff find the right keys and gain access to them in just a few seconds.



AUTOMATED PROCESS (24/7 AVAILABILITY)




Key and cabinet **access rights** are provided based on staff schedules, this ensured that access is obtained only during authorised time periods.



AUDIT REPORT & COMPLIANCE

100% traceability ensures that JOMEL is always fully aware where each key is located while ensuring that staff return keys on time.

RESULTS

	CHALLENGES	APPLICATIONS	RESULTS
 ↑ 95% EFFICIENCY	<ul style="list-style-type: none"> Efficiency: Each staff spent >10min per day searching and queuing for the right keys Administrative cost: Keys are managed manually under the supervision of operations leaders 	<ul style="list-style-type: none"> Description search feature: Helps authorised staff find the right keys in seconds Access schedule: Access right to keys are provided based on staff's schedules 	<ul style="list-style-type: none"> 95% speed of access: Quicker response time during emergencies and unplanned maintenance 24/7 availability: The automated process ensures keys are where they are most needed
ROI Calculations	Savings from increased in speed of access to keys		
	Avg. time spent looking for keys per day: 50 staff x 10 min = 500 min		8 hours
	Avg. cost of time saved/month: Labour rate (£6/hour) x 20 days		£960
	TOTAL SAVINGS PER YEAR:		£11,520
 ↑ 100% ACCOUNTABLE	<ul style="list-style-type: none"> Security: Lost keys can become a security threat Cost of replacing keys: Rekeying expenses can add up as business scales up 	<ul style="list-style-type: none"> Exception report for "overdue keys" can be generated Automatic email reminders are sent when keys are not returned 	<ul style="list-style-type: none"> 100% accountability: Zero report of lost keys since implementation. Prevent staff from leaving the facility without returning the keys
ROI Calculations	Savings from damaged locks or lost keys		
	Avg. number of keys lost per year (est.)		15 keys
	Cost to replace and service per lock		£250
	TOTAL SAVINGS PER YEAR:		£3,750
 ↑ 100% AUDITABLE	<ul style="list-style-type: none"> Audit review: Maintain proper tracking and audit reports of keys 	<ul style="list-style-type: none"> Full audit trail of all users and key movements Critical reports can be generated to measure the quality and effectiveness of the health & safety policies in place 	<ul style="list-style-type: none"> 100% control & visibility of event and user activity Compliant with Health & Safety regulations

"It is an easy-to-use system that helped us to control access to the key along with tracking history. A fingerprint reader makes it more secure. Availability of the systems even during power supply interruptions is a great feature. As the results were good, we added another system to our existing one."

Pradeep Adatrao Ralini
Technical Asset Manager, JOMEL

traka.com

The ASSA ABLOY Group is the global leader in access solutions. Every day we help people feel safe, secure and experience a more open world.

CS-JML-AA