



# ISRAR Engineering SCADA Projects References

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# Contents

Water Treatment Sector Projects

01

Renewable Energy Sector Projects

04

Rebar Steel Sector Projects

09

Machine Automation Sector Projects

11

Contact

14

# Water Treatment Sector Projects

ISRAR Engineering provides specialized services in the water treatment sector, including:

- **Installation and Commissioning:** Ensuring water treatment plants are fully operational and meet performance standards.
- **SCADA System Integration:** Enhancing monitoring and automation through SCADA system implementation.
- **Programming and Troubleshooting:** Customizing systems and resolving operational issues.
- **Environmental Compliance:** Supporting sustainability by processing wastewater to meet environmental regulations.
- **Advanced Technology Implementation:** Utilizing cutting-edge technologies to boost efficiency in water treatment processes.

ISRAR's focus is on improving efficiency, sustainability, and compliance across various water treatment facilities.



## Water Treatment Sector Projects List

### Emirates Steel Industries (ESI) – 2010, 2013

Subcontractor: Danieli Automation

Location: Abu Dhabi, UAE

Project Description: ISRAR provided comprehensive services for the water treatment plant of the Direct Reduction Iron (DRI) Steel production at Emirates Steel Industries. The project included programming, installation, troubleshooting, and full commissioning of the plant. This project was executed in two phases, completed in 2010 and 2013.

### Mobile Naturalization Unit – 2011

Subcontractor: Danieli Automation

Location: Abu Dhabi, UAE, and various locations

Project Description: ISRAR designed, installed, programmed, and commissioned a mobile naturalization unit. The unit processes sewage water by naturalizing it before safely discharging it into the sea. This project involved multiple locations, ensuring environmental compliance and sustainability.

### Saudi Iron & Steel Co. (Hadeed) – 2006, 2013

Subcontractor: Danieli Automation

Location: Saudi Arabia

Project Description: ISRAR provided comprehensive services for the water treatment system at Saudi Iron & Steel Co. (Hadeed). Executed in two phases, 2006 and 2013, the project involved designing, installing, and commissioning advanced water treatment solutions to ensure efficient and sustainable operations within the steel production facility.

### Al Rajhi Steel – 2012

Subcontractor: Danieli Automation

Location: Saudi Arabia

Project Description: ISRAR provided installation and commissioning services for the water treatment plant at Al Rajhi Steel in 2012, ensuring optimized performance and sustainability.

**Ezz Steel – 2012**

Subcontractor: Danieli Automation

Location: Egypt

Project Description: ISRAR provided installation and commissioning services for the water treatment plant at Ezz Steel in 2012, enhancing operational efficiency.

**Al-Ezz Dekheila Steel Plant – 2008**

Subcontractor: Danieli Automation

Location: Egypt

Project Description: ISRAR provided installation and commissioning services for the water treatment plant at Al-Ezz Dekheila Steel in 2008, supporting the plant's advanced DRI-based Electric Arc Furnace (EAF) technology for improved steel quality and cost efficiency.

**Al Amjad Steel – 2005**

Subcontractor: NCO S.PA

Location: Sudan

Project Description: ISRAR installed and commissioned the water treatment plant at Al Amjad Steel in 2005, ensuring enhanced production efficiency.

**Watania Steel – 2001**

Main Contractor

Location: Al-Zarqa, Jordan

Project Description: In 2001, ISRAR provided comprehensive installation and commissioning services including SCADA system for the water treatment system at Watania Steel.

**Philadelphia Steel – 2004**

Main Contractor

Location: Amman, Jordan

Project Description: ISRAR completed the installation and commissioning including SCADA system of the water treatment plant at Philadelphia Steel in 2004.

**Khalil Al-Rahman (KA) Steel – 2005**

Main Contractor

Location: Al-Mafraq, Jordan

Project Description: 2005



## Renewable Energy Sector Projects

ISRAR Engineering has executed a range of key SCADA projects in the renewable energy sector, focusing on solar power plant integration and management. Their expertise includes:

- **Full SCADA Implementation:** Providing complete SCADA systems for real-time monitoring and control of PV plants.
- **Power Plant Control (PPC):** Enhancing operational efficiency and reliability in solar facilities through advanced PPC systems.
- **Automatic Billing Systems:** Integrating automated billing for seamless financial management in energy production.
- **Data Management and Cloud Solutions:** Offering cloud-based SCADA systems for improved data accessibility and operational oversight.
- **Subcontractor Collaboration:** Partnering with companies like SCATEC Solar and CTGSail for high-quality project delivery.
- **Diverse Project Sizes:** Handling projects from small 0.49 MWp to large 20 MWp installations, demonstrating flexibility in managing different project scales.

ISRAR's renewable energy SCADA projects emphasize technology integration to optimize solar energy production and contribute to sustainable energy solutions.

# Renewable Energy Sector Projects List

## **Oryx – PV Plant 10 MWp - 2016**

Subcontractor: SCATEC Solar

Location: Ma'an, Jordan

Project Description: Automatic Billing and Auto switching Mechanism (Running)

## **GLAE – PV Plant 10 MWp - 2016**

Subcontractor: SCATEC Solar

Location: Ma'an, Jordan

Project Description: Automatic Billing and Auto switching Mechanism (Running)

## **EJRE – PV Plant 20 MWp - 2016**

Subcontractor: SCATEC Solar

Location: Ma'an, Jordan

Project Description: Automatic Billing and Auto switching Mechanism (Running)

## **Al-Hazza – PV Plant 6 MWp -2020**

Main Contractor

Location: Amman, Jordan

Project Description: Tracker, Billing, SCADA, full monitoring system (Complete)

## **Eagle (Al-Taibeh) Solar - 2021**

Subcontractor: CTGSail

Location: Irbid, Jordan

Project Description: SCADA, Power Plant Control (PPC)

## **Jabri – PV Plant 0.49 MWp -2019**

Subcontractor: ASTRACO

Location: Al-Salt, Jordan

Project Description: Full SCADA

Project Description: Full SCADA

## **Jordan Hospital 01 – PV Plant 1.5 MWp - 2019**

Subcontractor: ASTRACO

Location: Madaba, Jordan

Project Description: Full SCADA

**Jordan Hospital 02 – PV Plant 1.5MWp -2020**

Subcontractor: ASTRACO

Location: Madaba, Jordan

Project Description: Full SCADA

**Orange Jordan – PV Plant 18 MWp - 2019**

Subcontractor: Orange

Location: Al-Mafraq, Jordan

Project Description: Full SCADA

**Shamsuna – PV Plant 10 MWp - 2021**

Subcontractor: CTGSAIL

Location: Aqaba, Jordan

Project Description: Full SCADA, Billing System, Power Plant Controller (PPC)

**Falcon - 2021**

Subcontractor: CTGSAIL

Location: Ma'an, Jordan

Project Description: Full SCADA, Billing System, Power Plant Controller (PPC)

**AabiaOne 2021**

Sub: Mase

Location: Al-Tafila, Jordan

Project Description: SCADA for Automatic Billing System)

**ACWA Power – Mafraq - 2017**

Subcontractor: ACWA

Location: Al-Mafraq - Jordan

Project Description: SCADA for Automatic Billing System)

**Al-Mafraq - 2018**

Subcontractor: FRV

Location: Al-Mafraq - Jordan

Project Description: SCADA for Automatic Billing System)

● **Empire - 2018**

Subcontractor: FRV

Location: Al-Mafraq - Jordan

Project Description: SCADA for Automatic Billing System)

● **Al-Safawi – PV Plant 50 MWp - 2021**

Subcontractor: FRV

Location: Al-Mafraq - Jordan

Project Description: SCADA for Automatic Billing System)

● **Al-Rajef (Wind Farm) 88 MWp - 2018**

Subcontractor: ECNORE SA/AL

Location: Ma'an, Jordan

Project Description: Billing System, Auto switching

● **Al-Tafila (Wind Farm) 117 MWp - 2019**

Subcontractor: PowerHub

Location: Al-Tafila, Jordan

Project Description: Billing System, Auto switching

● **Al-Shobak (Wind Farm) 50 MWp - 2020**

Subcontractor: PowerHub

Location: Ma'an, Jordan

Project Description: Billing System, Auto switching

● **WAYU – Metro Central Mall (MCM) – 1.078 MWp - 2024**

Subcontractor: WAYU Energy

Location: Philippine

Project Description: Cloud Based SCADA, Data Driver, Billing System

● **SM BATAAN (SMBA) – 2.375 MWp - 2024**

Subcontractor: WAYU Energy

Location: Philippine

Project Description: Cloud Based SCADA, Data Driver, Billing System

**SM BUTUAN (SMBN) – 0.85 MWp - 2024**

Subcontractor: WAYU Energy

Location: Philippine

Project Description: Cloud Based SCADA, Data Driver, Billing System

**SM City Cebu (SMCC) – 2.837 MWp - 2024**

Subcontractor: WAYU Energy

Location: Philippine

Project Description: Cloud Based SCADA, Data Driver, Billing System

**SM City ILO-ILO (SMCI) – 1.924 MWp - 2024**

Subcontractor: WAYU Energy

Location: Philippine

Project Description: Cloud Based SCADA, Data Driver, Billing System

**SM City BACOLOD (SMBD) – 1.238 MWp - 2024**

Subcontractor: WAYU Energy

Location: Philippine

Project Description: Cloud Based SCADA, Data Driver, Billing System

**SM CDO DOWNTOWN (SMCD) – 0.70 MWp - 2024**

Subcontractor: WAYU Energy

Location: Philippine

Project Description: Cloud Based SCADA, Data Driver, Billing System

**SM City CONSOLACION (SMCS) – 1.32 MWp - 2024**

Subcontractor: WAYU Energy

Location: Philippine

Project Description: Cloud Based SCADA, Data Driver, Billing System

**SM GENERAL SANTOS (SMGS) – 1.89 MWp -2024**

Subcontractor: WAYU Energy

Location: Philippine

Project Description: Cloud Based SCADA, Data Driver, Billing System



# Rebar Steel Sector Projects

In the rebar steel sector, ISRAR Engineering focuses on optimizing steel production processes through several key activities:

- **Installation and Commissioning:** Ensuring efficient setup and operation of rebar steel production facilities.
- **Automation Solutions:** Implementing technologies to improve efficiency, reduce labor, and enhance product quality.
- **Collaboration with Subcontractors:** Partnering with subcontractors to provide tailored, high-quality solutions.
- **Diverse Project Scope:** Offering services ranging from basic installations to complex automation systems for various production scales.
- **Focus on Efficiency:** Prioritizing automation and advanced technologies to optimize production, reduce waste, and boost productivity.

ISRAR's work in this sector emphasizes innovation and operational efficiency in steel production.

# Rebar Steel Sector Projects List

## Turn-key Projects

- **Al-Amjad Steel (SUDAN) – 2005**
- **Watania Steel (JORDAN) – 2001**
- **Philadelphia Steel (JORDAN) – 2004**
- **Khalil Al-Rahman (KA) Steel (JORDAN) – 2005**

### **Machinery Involved:**

ISRAR installed and commissioned Central SCADA and automation system for various machines, including:

- **Stoving Furnace**
- **Rolling mill Multistage production line**
- **Flying Shear**
- **Cooling Bed**
- **Cut to length Cold Shear**
- **Tying Machine**



# Machine Automation Sector Projects

ISRAR Engineering specializes in advanced automation solutions for industrial applications, with key focuses including:

- **Specialized Machine Development:** Designing and implementing machines for specific tasks, such as dismantling expired ammunition using systems like the Pull Apart Machine.
- **Automation Technology Integration:** Enhancing production lines by integrating automation technologies, reducing manual labor, and improving efficiency.
- **Comprehensive Project Management:** Managing automation projects from design to commissioning, including installation, programming, and troubleshooting.
- **Safety and Precision:** Prioritizing safety and accuracy, especially in sensitive operations like ammunition disassembly.
- **Collaboration with Clients:** Partnering with military and industrial clients to provide tailored automation solutions that meet specific needs.

ISRAR's work in the machine automation sector emphasizes innovation, safety, and operational efficiency across various industries.

# Machine Automation Sector Projects List

## Jordan Military – 2021-2024

Subcontractor: Jordan Military

Location: Jordan

Project Description: Special machines for dismantling expired ammunition:

- Pull Apart Machine:

Purpose: Disassembles projectiles and cartridge cases.

Mechanism: Uses a hydraulic cylinder to push the projectile.

Additional Features: Collects propellant spillage in a pan.

Control: Controlled automatically from the system room.

- De-Primer:

Purpose: Removes primers from cartridge cases with precision

Mechanism: Uses a specialized hole saw for safe extraction.

Additional Features: Allows for primer repurposing.

Focus: Ensures safety and accuracy in ammunition recycling.

- De-Fuser:

Purpose: Safely and efficiently disassembles fuses from projectile cartridges.

Mechanism: Uses a pressing unit to grip the projectile tip.

Focus: Ensures stability and prevents movement.

- De-Bullet :

Purpose: Efficiently disassembles bullets from cartridges.

Additional Features: Ensures safe and precise handling

- Incinerator (Burner)

Purpose: Safe disassembly of light ammunition of calibers under 50.

Mechanism: Operates on diesel fuel with electrical motors.

Capacity: Handles up to 15 kilograms of ammunition per load.

Process: Burns combustible materials, leaving only scrap metal.

Additional Features: Automatically collects and ejects scrap metal for recycling or disposal.

**Al-Tarifi Industries – 2001-2006**

Pharmaceutical works:

Filling Machine

Labeling Machines

Pick and Place Machine

**Al-Swahil Oil Industries – 2007**

Complete Production Line

Filling Machine

Oil-Water Separator (Extracting water form oil)

**Rum Aladdin – 2004**

Many CNC Machines:

Press Brake Machine

Eccentric Press Machine

Welding Machine

**NOTE:**

These projects represent just a portion of ISRAR Engineering's extensive portfolio. Many other successful Automation projects have been completed across the region, demonstrating the company's broad expertise and commitment to delivering high-quality, efficient solutions tailored to meet diverse industrial needs.



# **ISRAR**

## **E n g i n e e r i n g**

### **Let's Build Your Future Together**

Israr Engineering is your trusted partner for industrial automation solutions, offering cutting-edge technologies and comprehensive services.

Contact us to discover how Israr Engineering can revolutionize your industrial processes. Our team is ready to provide consultation, project planning, and implementation tailored to your needs.

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