HS-IIoT

HS-IIoT-PRF-001

COMPANY PROFILE

HS-IIoT

Your whole facility on one screen.

Know before it costs you.

Power, generators, tanks and pumps, monitored live from anywhere, with an instant alert on your phone the moment anything goes wrong, and reports ready for management.



REVISION	DATE	WEBSITE	EMAIL
1.0	2026-10	hs-iiot.com	info@hs-iiot.com

COMPANY PROFILE

We are HS-IIoT: building industrial monitoring in Iraq

HS-IIoT is an Iraqi engineering team specialised in SCADA and Industrial IoT (IIoT). We design the hardware and the software ourselves, from the gateway and sensors on site to the cloud platform and the app, then install, commission and stay responsible for them.

- ✓ Fast installation
- ✓ Works with your existing equipment
- ✓ Local support

OUR PROMISE

Your whole facility on one screen. Know before it costs you.

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01 ABOUT US

Our story

We started from a problem every facility owner in Iraq knows: an unreliable grid, generators running unchecked, fuel and water that disappear without explanation. We built HS-IIoT to give decision makers the facts as they happen, with hardware made for our sites that keeps working even when the internet is down.

Power monitoring
Every phase, every amp, every moment.

Generator monitoring
Every litre counted, every hour logged.

Tanks and pumps
No empty tank, no wasted litre.

Cloud platform and gateway
A full control room in your pocket.

HS-IIoT is an Iraqi engineering team specialised in SCADA and Industrial IoT (IIoT). We design the hardware and the software ourselves, from the gateway and sensors on site to the cloud platform and the app, then install, commission and stay responsible for them.

AT A GLANCE

Specialisation	**SCADA and Industrial IoT (IIoT) systems**
Based in	**Iraq**
Coverage	**Every governorate of Iraq, including the Kurdistan Region**
What we deliver	**Survey, design, hardware and software, installation, commissioning and support**
Standards	**ISA-101 · ISA-18.2 · IEC 62443**
Industries	**Factories, Hospitals, Residential compounds, Farms, Water stations, Telecom sites**

Industrial monitoring, made intelligent

OUR VISION

To be Iraq's leading partner in the digital transformation of industry: SCADA and IIoT systems made for our conditions, to international standards, with local support.

OUR MISSION

That every facility in Iraq, whatever its size, can see its power, equipment and water live, and act before a problem turns into a loss.

WHAT WE STAND FOR

Reliability

No reading is lost: local storage while offline, and every reading confirmed on arrival.

International standards

Screens, alarms and security built to ISA-101, ISA-18.2 and IEC 62443.

Local support

An Iraqi team that speaks your language, comes to your site and answers when you need it.

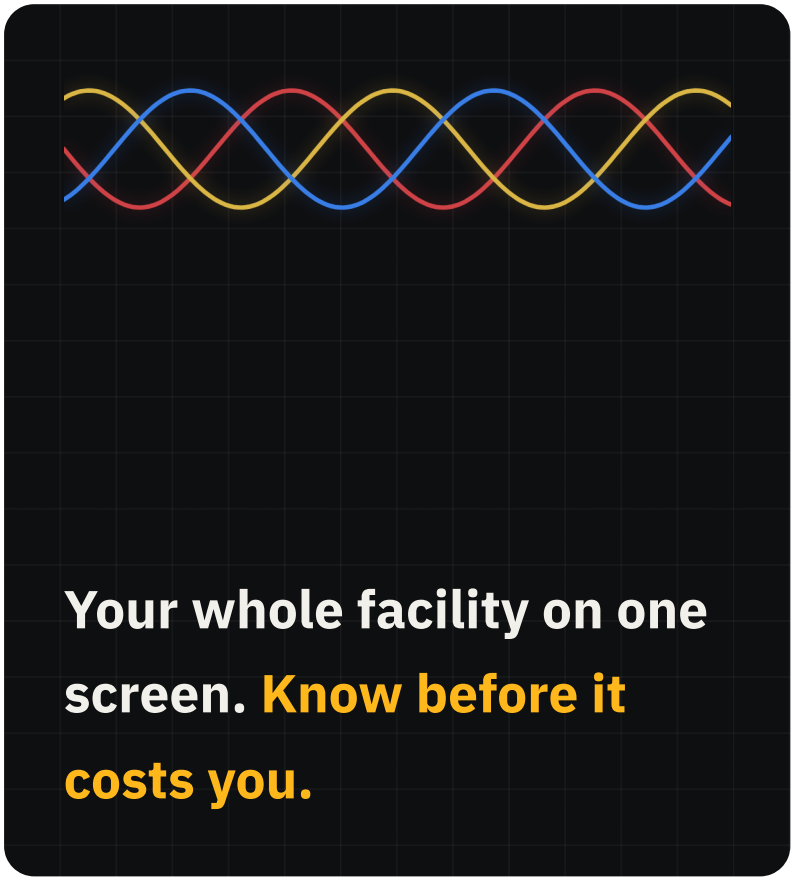
Transparency

Real figures from systems running today, not promises.

03 THE CHALLENGE

Daily losses no report shows

In most facilities, the problem is found after the loss. Monitoring turns that around.



Fuel wasted or stolen

The generator's real consumption is unknown, and the bills keep growing.

Outages and overloads nobody notices

A phase drops or the load goes over the limit, and equipment is damaged before anyone knows.

Tanks running dry or overflowing

A pump running dry, or water wasted for hours.

Missed maintenance, then the big breakdown

A late oil change becomes an engine repair and days of downtime.

SCADA and Industrial IoT (IIoT) projects, delivered in Iraq

From the sensor on site to the screen in your office: HS-IIoT designs, installs and runs industrial monitoring and control systems for plants and facilities, and stays with you after commissioning.

SCADA systems

Central control and monitoring screens (HMI) for production lines and stations, with alarm history, reports and user roles, designed to ISA-101 and ISA-18.2.

Industrial IoT (IIoT)

Your equipment and sensors connected to a secure cloud platform, so you see every site from your phone or computer wherever you are.

Energy and power monitoring

Voltage, current, power and power factor on every line, voltage dips and phase loss detected, and consumption reports that cut the bill.

Generator monitoring

Load, run hours, fuel use and service dates for every generator, with an instant alarm on a stop or an overload.

Water tank and pump monitoring

Water level, volume, quality (TDS) and pump status live, with an alarm before a tank runs dry or overflows.

Industrial automation and integration

Your PLC panels, meters and existing systems brought into one platform without replacing what you have: a step towards Industry 4.0.

One complete system, from sensor to phone

Each product works on its own, and at full strength together on one platform.



01
Sensors on site
On your panels, generators and tanks, without modifying the equipment.

02
The gateway
Collects the readings wirelessly and keeps them while the internet is down.

03
The cloud platform
An encrypted link, ISA-18.2 alarms and reports.

04
Your phone and desktop
Every site live, and an instant alert wherever you are.

Power monitoring 08
Every phase, every amp, every moment.

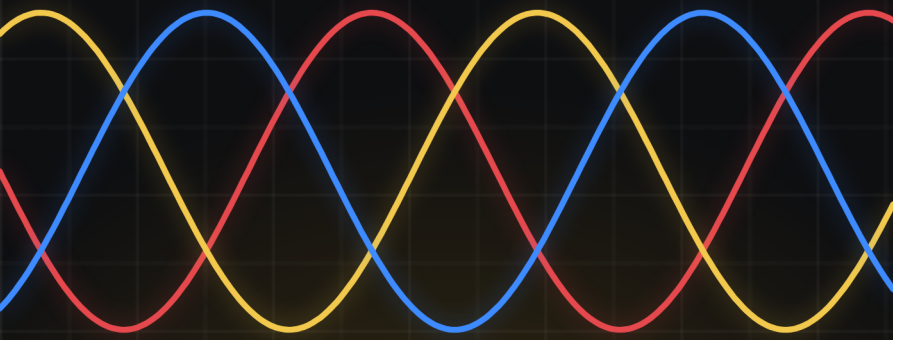
Generator monitoring 09
Every litre counted, every hour logged.

Tanks and pumps 10
No empty tank, no wasted litre.

Cloud platform and gateway 11
A full control room in your pocket.

Power monitoring

Every phase, every amp, every moment.



Grid and feeder lines monitored phase by phase: voltage, current, power, energy, frequency and power factor, with an instant alert on an outage, over-voltage or overload.

What you get

- Protect your equipment: alerted the moment voltage rises or a phase drops, before damage.
- Know where the energy goes: consumption per line, per hour, in kWh.
- A full outage record: when it went, when it came back, how long it lasted.
- Early warning before overload: start the backup source in time.

Specifications

MEASUREMENTS
V · A · kW · kWh · Hz · PF per phase

UPDATES
Live, every significant change recorded

CURRENT TRANSFORMERS
Sized to the line, calibrated from the platform

Request this product hs-iiot.com info@hs-iiot.com

Generator monitoring

Every litre counted, every hour logged.



A virtual control unit for your generator: run hours, fuel used, load, oil-change schedule and engine health, with an alert on overload or when maintenance is due.

What you get

- Stop fuel waste: real consumption against load, so any gap shows at once.
- Maintenance on time: automatic oil-change reminders from real run hours.
- No surprises: alerted before the load exceeds the generator's capacity.
- Exact run hours per generator, monthly and yearly.

Specifications

INDICATORS
Run hours · L/h · load % · engine health

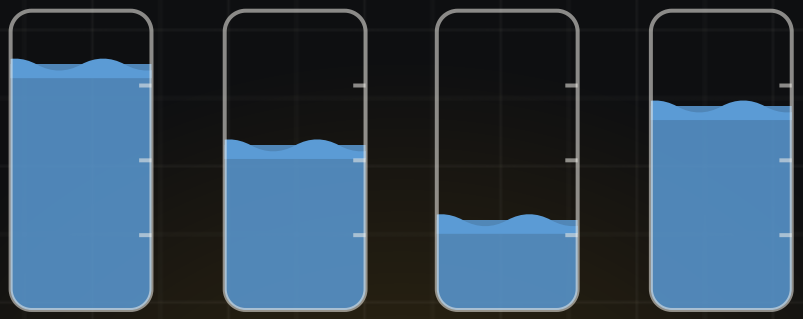
MAINTENANCE
Configurable oil-change interval

COMPATIBILITY
Works with your existing generators, unmodified

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Tanks and pumps

No empty tank, no wasted litre.



Water level and volume in every tank, water quality (TDS), and automatic pump control between the limits you set, with an alert when a tank runs empty, overflows or a sensor fails.

What you get

- The pump runs itself at the right time: never dry, never overflowing.
- Water quality watched continuously, not by spot checks.
- Up to four tanks per unit, in real litres.
- Save water, electricity and pump life.

Specifications

MEASUREMENTS
Level % · volume (L) · TDS

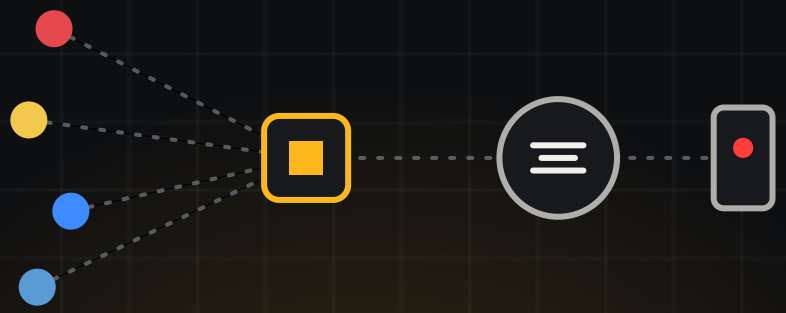
CONTROL
Manual, or automatic between start and stop limits

CAPACITY
Up to 4 tanks per unit

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Cloud platform and gateway

A full control room in your pocket.



One dashboard for all your sites on a single map, instant Telegram alerts, ready-made reports, and access rights per employee. The on-site gateway stores every reading while the internet is down and sends it when it is back, so your records have no gap.

What you get

- All your sites and branches in one place, on desktop and phone.
- Alerts reach you instantly, with the value, the duration and what to do.
- No reading lost: stored on site for days when the internet is down.
- Each employee sees only what is theirs: rights per user and per device.
- Daily and monthly reports for management, in one click.

Specifications

ALARMS
ISA-18.2 · Telegram · phone notifications

SECURITY
IEC 62443 roles · encrypted link over VPN

DATA CONTINUITY
Stored on microSD until delivery is confirmed

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From installation to monitoring in days, not months

01 — We install

Small sensors on your panels, generators and tanks, without stopping work.

02 — We connect

An on-site gateway collects readings wirelessly and sends them, encrypted, to the platform.

03 — You monitor

From desktop or phone, with instant alerts and ready reports.

From the first visit to after commissioning

01 — Survey

We visit your site, define what to measure and monitor, and give you a quote designed for it, with an estimate of what it saves.

02 — Design

We design the hardware and the software ourselves, from the gateway and sensors on site to the cloud platform and the app.

03 — Installation and commissioning

Usually one to a few days depending on the site, without stopping work. Monitoring starts as soon as it is installed.

04 — Support after commissioning

A team in Iraq for maintenance and development, responsible for the system after commissioning.

What happens if the internet goes down on site?

The gateway keeps recording and stores the readings on a memory card, then sends them all when the link is back. No reading is deleted before the server confirms it arrived.

Does it work with our existing generators and panels?

Yes. The sensors fit your existing equipment without modifying it and without stopping work.

Is our data secure?

The link is encrypted over a private network, every user has defined rights, and keys and passwords are never shown once entered.

Built on industrial standards, not promises

ISA-101 interfaces

Designed to show only what is abnormal, as in modern control rooms.

ISA-18.2 alarms

Clear priorities, and no floods of repeated or meaningless alarms.

IEC 62443 security

Role-based access, secrets never displayed, encrypted links.

No gap in your data

Stored on site and re-sent with delivery confirmation when the internet drops.

Fully bilingual

Platform, alerts and reports in Arabic and English for your team.

Local support

A team in Iraq for installation, maintenance and development.

The standards we design to

Standard	Area	How we apply it
ISA-101	Operator interfaces (HMI)	A calm, neutral interface; colour appears only when something is abnormal.
ISA-18.2	Alarm management	Three priorities, delays before raising and clearing, no electrical alarms from a de-energised source, and no floods of repeating alarms.
IEC 62443	Industrial cybersecurity	Role and per-device access, an audit trail, passwords and keys never displayed, and encrypted links.
EEMUA 191	Alarm system performance	Our target: about one alarm per 10 minutes or fewer for an operator in normal operation.

Our systems are designed in line with these standards; they are not third-party certifications.

One platform, built for the conditions of our sites

10
field nodes per gateway, power and water in any mix

4
tanks per water unit, in real litres

10 s
alarm evaluation cycle for every site, around the clock

4
alert channels: dashboard, phone notifications, Telegram, and SMS or WhatsApp for critical alarms

3
report formats for any period: PDF, Excel and CSV

0
readings deleted at the gateway before the server confirms them

What you see on the platform

- A command centre with a map of every site, its state and its alarms.
- An executive view for management: load, water reserve, devices online and active alerts.
- AI-assisted insights: an operator briefing, anomalies, likely causes, predictions and recommendations.
- An audit trail of every change, and rights per user and per device.
- Remote firmware updates, with integrity checks and automatic rollback.
- Integration with enterprise (ERP) systems, when enabled for a site.

Alarm priorities

High — Damage or loss of supply imminent: a missing phase, overcurrent, overload. Immediate response, escalated by SMS and WhatsApp.

Medium — Out of range and harmful if it persists: voltage, frequency, panel temperature, a tank empty or full. Response within minutes.

Low — Efficiency and diagnostics: current unbalance, power factor, link quality.

The engineers who design and deliver your projects.

HF — Eng. Hussein Fadhel Al-Ali

Control and automation engineer

Leads Industry 4.0 work by closing the engineering gap between operational technology (OT) and information technology (IT): field instrumentation, DCS/SCADA, industrial wireless networks, edge computing, and integrated hardware and software for harsh and hazardous environments.

- Hazardous areas (ATEX/IECEx)
- PLC programming and control
- Industrial networks
- SCADA and HMI
- Industrial IoT

EDUCATION

B.Eng. Control and Automation Technology Engineering, Southern Technical University (2025), 2nd in class. Technical organiser, GDG Basra.

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AL — Eng. Abdulameer Luay

From the first visit to after commissioning

01 — Survey
We visit your site, define what to measure and monitor, and give you a quote designed for it, with an estimate of what it saves.

02 — Design
We design the hardware and the software ourselves, from the gateway and sensors on site to the cloud platform and the app.

03 — Installation and commissioning
Usually one to a few days depending on the site, without stopping work. Monitoring starts as soon as it is installed.

04 — Support after commissioning
A team in Iraq for maintenance and development, responsible for the system after commissioning.

For every facility that runs on power and water

- Factories
- Hospitals
- Residential compounds
- Farms
- Water stations
- Telecom sites

We deliver across Iraq

- Baghdad
- Basra
- Erbil
- Sulaymaniyah
- Nineveh
- Kirkuk
- Najaf
- Karbala
- Babil
- Dhi Qar
- Maysan
- Anbar
- Diyala
- Wasit
- Salah al-Din
- Duhok
- Qadisiyah
- Muthanna

Organisations that trust HS-IIoT

Facilities and companies in Iraq that chose HS-IIoT to monitor their power and equipment.

Le Moulin D'or

le-moulin-dor.com

Siraj Al-Marafa

sirajalmarafa.com.iq

Ex Devices

ex-devices.com

Masjid Al-Moussawi

Logos are the property of their owners.

12 CONTACT US

Get a quote designed for your site

Tell us about your facility and we'll come back with a free proposal.

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TALK TO US DIRECTLY

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