DVGW Congress 2026

Implementing Art. 14 of the EU Methane Regulation with DVGW Metra

The journey of a leak – from detection all the way to Europe

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This presentation was translated from German into English using AI and reviewed by DVGW Service & Consult GmbH. In case of doubt, the German original shall prevail.

THE CONFLICT

And now? Germany makes it complicated.

16 + 700
federal states and gas network operators – a highly complex, decentralised structure

7 digits
expected number of measurements – mass data in a wide variety of formats

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federal states have designated their supervisory authorities so far

0
central database, no implementing act, no accredited verifiers

How digitalisation makes the entire process manageable

THE CHALLENGE	THE DIGITAL ANSWER
Mass data A seven-digit number of measurements from ~700 operators – from diverse devices, source systems and formats.	**Device- & system-agnostic data capture** Data from any measuring technology and source system – via Excel upload or REST API, aggregated from the single leak up to the national report.
Many individual process steps Detection, capture, notification, repair, re-check, reporting – each with its own deadlines.	**One end-to-end digital workflow** Every step linked to the original measurement; deadlines calculated and monitored automatically.
Audit-proof documentation Every decision and change must stand up to external verification.	**Complete, tamper-proof history** Who changed what, and when – every case is traceable at the push of a button.
Reports to authorities Notifications, approvals and annual reports to 16 federal states, the UBA and the EU.	**Digital reporting chain** Routed to the competent authority automatically; annual reports built from data already in the system.

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What DVGW Metra does

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DVGW METRA

A central web application

Browser-based, no installation required: one secure platform connecting operators of gas installations with the competent authorities.

- Operators & authorities
- Role-based access
- Nationwide standard

1 Data intake

Leak data from any measuring technology or source system – entered manually, via Excel upload or REST API.

2 Workflow mapping

The complete LDAR process – from detection to re-check – as one guided digital workflow.

3 Deadline monitoring

Deadlines calculated automatically from detection; colour-coded warnings before they are missed.

4 Annual LDAR report

Data compiled automatically for the annual LDAR report under Art. 14(14) – from data already in the system.

5 Notifications to authorities

Routed to the competent authority after explicit release by the operator – approvals included.

6 Dashboards for both sides

Operators see their gas installations; authorities see all cases within their area of responsibility.

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THE JOURNEY BEGINS

Six stations on the way to Europe

Our protagonist: leakage– detected during an
LDAR campaign at a pressure regulating & metering station of a DSO.



1 **Detection**
Detector goes off

2 **Capture**
Structured data entry

3 **Notification**
Inform the authority on time

4 **Repair**
Plan & fix

5 **Re-check**
Re-measure until tight

6 **Reporting**
Reports & EU database

At every station: the obligation under the EU MR – and how DVGW Metra fulfils it.

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Standardised, transparent, connected – the digital levers

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1 Standardisation through digitalisation

One data model, mandatory fields and predefined value sets: every operator delivers comparable data – regardless of measuring device or software.

2 Transparency via modern dashboards

Status, deadlines and colour-coded warnings at a glance – for network operators and authorities alike, from the overview down to the single leak.

3 Authority notifications submitted via Metra

Notifications, approvals and nil reports go directly to the competent authority – on time and only after explicit release by the operator.

4 A dedicated communication channel per leak

Each leak opens its own message thread with the authority – no more e-mail ping-pong, every exchange documented in the case history.

Digitalisation turns a regulatory obligation into a standardised, transparent process – one platform, one data standard, one channel between operators and authorities.

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Thank you!

Let DVGW Metra guide your leaks from now on.

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