Raptech

R-CLOUD PLATFORM

Complete control of your renewable energy assets



R-Cloud brings together data from **GSE, DSO, Terna, traders and meters**, validates it and checks its consistency over time. **One portal, one login: your whole team works on the same data.**

PLATFORM MODULES

Remote Meter Reading
Readings and alarms from production meters
+ Daylight Readings *optional service*

Incentive Management
GSE payments checked against actual production

Energy Desk
Energy sales revenue, PPAs and Guarantees of Origin
+ Energy Desk Pro *optional service*

Across the platform: **REST API** for integration with your business systems.

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R-CLOUD

OVERVIEW

Energy and financial data for renewable plants: integrated, validated, under control.

The data of a PV plant is spread across several sources: **GSE**, **DSO** (e-Distribuzione), **Terna**, traders and **physical meters**. Each publishes at different times and in different formats, and inconsistencies between sources turn into unrecognised incentives, unverified sales revenue and lengthy disputes.

R-Cloud is Raptech's proprietary platform that centralises this data, validates it and checks its consistency over time. **One portal, one login**: instead of jumping from one portal to another and piecing data together by hand, plant owners, SPVs, asset managers and O&M operators work on a single, reliable data set to base their decisions on.

6,400	2,900	5 GW
meters read remotely	plants monitored	of installed capacity



One place, the same data for everyone

Asset managers, O&M, administration, finance and consultants find everything in the same portal and work **on the same numbers**. No more files circulating by e-mail, different versions of the same figure or information stuck in one colleague's inbox: every decision starts from a shared, verified basis.

Platform modules

MODULE	WHAT IT DOES	OPTIONAL SERVICE
Remote Meter Reading	Daily and monthly readings of production meters via the meter modem, monitoring and alarms.	**Daylight Readings** — up to four readings a day during solar production hours.
Incentive Management	Automatic check of GSE payments against the energy actually produced.	—
Energy Desk	Control of energy sales revenue, PPAs, invoicing to traders, Guarantees of Origin.	**Energy Desk Pro** — DSO feed-in curves updated every day.

Cross-platform feature: **REST API** *available on all modules to export data to your business systems.*

Why R-Cloud

Verified data

Every data point is validated and cross-checked between sources and against actual measurements: inconsistencies surface immediately.

Automation

Checks, notifications and recurring compliance tasks run by the system, not by hand.

Open integration

REST API with API key/token authentication to bring measurements, profiles, incentives and sales into your systems.


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MODULE 01

Remote Meter Reading

Production meter data, every day, in one place.

Collects directly, via the **meter modem**, the **registers** and **15-minute profiles** of production meters. Data is available before e-Distribuzione's monthly publication, feeds a continuous history and lets you monitor the status of each meter at any time.

DATA ACQUISITION

- **Daily readings** — 15-minute load curve and all available registers, collected every day via the meter modem.
- **Early monthly readings** — monthly production available before it is published by e-Distribuzione.
- **Historical registers** — previous monthly readings, as far back as the meter's memory allows.
- **UTF registers** — simplified export of registers 1.8.0 and 2.8.0.

MONITORING AND ALARMS

- **Meter status** — downloadable list of meters in alarm and e-mail notification when a meter does not respond beyond a user-defined threshold.
- **Event management** — deadlines with reminder dates and dedicated recipients, including calibration dates for each meter.
- **Availability statistics** — meter availability over time for SPVs and O&M, an objective basis for availability-based maintenance contracts.

DATA QUALITY AND INTEGRATION

- **Validated production** — algorithm that cross-checks registers and load profiles to calculate production.
- **Automatic synchronisation** — remote check and update of meter date and time.
- **Production history** — continuously updated database, available online and exportable to Excel.
- **REST API** — export of measurements and profiles to Business Intelligence platforms and business systems.

OPTIONAL SERVICE

Daylight Readings

Up to four readings a day during solar production hours, via the meter modem. After each reading the system sends an e-mail with the measured power values and the communication status; the same data is visible in real time on a dedicated page.

To check that the plant is working properly within the same day.

CUSTOMER VALUE

Data in advance

Production stoppages and anomalies surface within days, not at month-end.

Fewer wasted call-outs

Alarms show which meter is not communicating, before the site visit.

Objective KPIs for O&M

Measured and documented availability, usable in contracts.

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MODULE 02

Incentive Management

Every euro of GSE incentive, verified against the energy actually produced.

Automates the control of GSE incentives (**Conto Energia** I to IV and **FER**): the expected incentive is calculated as **official GSE tariff × validated energy produced** and compared with the amount actually paid. Production meter readings are also compared with the data on the DSO portal, so every discrepancy is identified and documented in good time.

CONTROL AND RECONCILIATION

- **GSE payment check** — automatic comparison between payments received and actual production meter readings.
- **DSO comparison** — meter readings compared with those published on the e-Distribuzione portal.
- **Rettifica 595 wizard** — guided procedure to generate correction requests quickly and accurately.

ACCESS MANAGEMENT

- **Account Status service** — automatic renewal of the e-Distribuzione password; one or more authorised users per SPV receive the new credentials by e-mail.

DATA AND INTEGRATION

- **Production history** — continuously updated database for each plant.
- **Online access and export** — view on the portal and download to Excel.
- **REST API** — export of incentive data to business systems.

CUSTOMER VALUE

No lost credits

Gaps between energy produced and energy paid surface before they become unrecoverable.

Fewer disputes

Every claim to GSE or the DSO starts from validated, documented data.

Always-on access

No operational lockouts due to expired e-Distribuzione passwords.

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MODULE 03

Energy Desk

Energy sales revenue under control, from the feed-in curve to invoicing to the trader.

For each plant and each month it compares the energy fed into the grid according to all available sources (DSO curve, feed-in meter, trader file, reconstruction), flags the validated one, values it with the **PPA contract formula** and the **MGP zonal price**, and compares it with the amount invoiced to the trader. It also manages Guarantees of Origin automatically from the GSE portal and collects compliance obligations towards ARERA and the Customs Agency (Agenzia delle Dogane).

FEED-IN DATA

- **Load profiles** — curves of feed-in and withdrawal meters.
- **Feed-in source validation** — automatic, based on a priority order, or manual by the operator.
- **Estimated profiles** — flagging and periodic synchronisation of estimated curves published on the e-Distribuzione portal.
- **Version history** — record of every monthly DSO file imported, with comparison between previous and new curve.

VALUATION AND REVENUE

- **Sales value calculation** — fixed-price, variable (15-minute zonal price) and mixed PPAs.
- **Fixed vs variable comparison** — revenue simulation to choose the most profitable contract formula.
- **MGP zonal prices** — automatic download of 15-minute prices from the Day-Ahead Market (MGP).
- **Price Cap** — dedicated management.

INVOICING CONTROL

- **Consistency with the trader** — automatic check of the amount invoiced to the trader against validated energy and contract terms.
- **REST API** — export of sales data to business systems.

HIGHLIGHT

Guarantees of Origin (GOs)

Your plants' GOs, managed automatically: R-Cloud synchronises with the GSE portal and issues certificates with no manual steps, so every certifiable MWh becomes value you can sell alongside your energy.

- **Automatic synchronisation** — with the GSE portal.
- **Automatic issuance** — of certificates, with no manual steps.

Also available: **ARERA section** *(contribution to the Authority and survey on average selling prices) and* **Customs Agency section** *(data for the annual declaration).*

CUSTOMER VALUE

Verified revenue

Errors and omissions in what is invoiced to the trader are caught and documented.

Data-driven PPAs

Fixed, variable or mixed: the choice is based on the plant's real data.

GOs with no manual work

Certificates synchronised and issued automatically from the GSE portal.

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OPTIONAL SERVICE · FOR ENERGY DESK USERS

Energy Desk Pro

Receives the 15-minute curves that e-Distribuzione publishes for each POD: a daily file for each day and the consolidated monthly file at month-end. Feed-in data is thus normally available in R-Cloud from the following day, without waiting for the monthly publication on the portal.

- **Daily updates** — feed-in data available every day.
- **Timely corrections** — DSO corrections are imported as soon as they are published.
- **Greater reliability** — no dependence on e-Distribuzione portal outages.
- **Data availability** — dedicated page showing, POD by POD and day by day, completeness and delays of the data received.

CROSS-PLATFORM FEATURE · ENTIRE PLATFORM

REST API integration

All data managed in R-Cloud — **measurements, profiles, incentives and sales** — can be exported via REST API to ERP, Business Intelligence and asset management systems, with authentication via **API key / token**. R-Cloud thus becomes the validated data source feeding your business processes, with no manual exports or double entry.

Let's look at your plants on R-Cloud together

Request a demo on your own data: **info@raptech.it** · **www.raptech.it**

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