## Editorial

Hello,
FLUDIA Newsletter is back with quite a few topics: Our new video, Fludia Winner of GRT Gaz Open Innovation Factory, new real-time display, customer testimonial, NILM workshop 2020, 2021 events to come… Happy reading!

## New Video


Discover our new video presentation of Fludia activity and products. Available on our website, on Youtube and on Fludia Linkedin account. It will give you an overview of our plug & play monitoring systems dedicated to energy consumption measurement, understanding and monitoring!

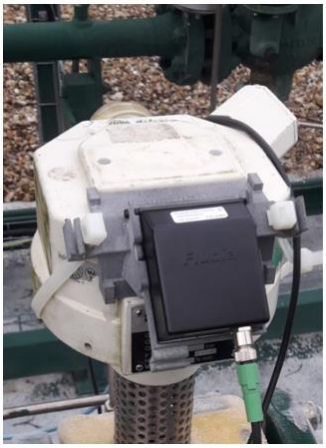
## Fludia winner of GRTgaz Open Innovation Factory

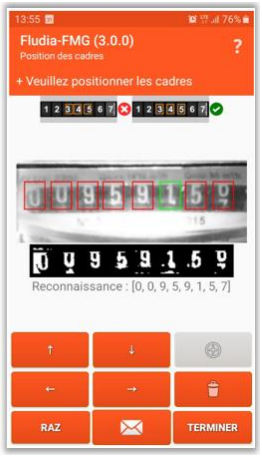
Launched in 2016, GRTgaz Open Innovation Factory aims to find innovative operational responses to technical or cross-functional issues encountered by GRTgaz businesses.

Fludia participated in a call for projects organized by GRTgaz Open Innovation Factory. Fludia was selected for a mission intitled "Guarantee the consistency of metering data while optimizing the presence of employees on site". GRTgaz wanted to have a solution for the remote transmission of metering data, compliant with the mechanical index of the meter, that could be deployed in gas delivery stations.

Fludia was **awarded thanks to an ATEX certified intelligent connected sensor solution**, characterized by:

- an embedded optical recognition algorithm, using a **Deep Learning model.**
- **IoT** connectivity (LoRaWAN network)
- **autonomy** with a 5 year battery life



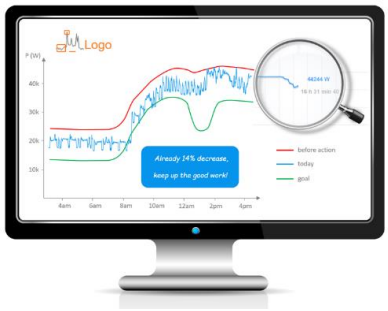



Fludia know-how and experience in the development of innovative IoT sensors has been put to the test in this project packed with technological and operational challenges: autonomy, extreme weather conditions, complex embedded processing, ATEX constraints…

The **awards ceremony** took place on October 1st. Animation by a famous journalist, participation of GRTgaz CEO and many other speakers (including Fludia of course)… a success!

## Wattalive™, the new real-time display, available soon!

Fludia is continually expanding its consumption monitoring offer for buildings. In the past, Fludia had experimented with a real-time display solution which had been very well received but also met some operational difficulties ...




For several months, the R&D team has been working on a new version, Wattalive™, using a more efficient radio solution and a dedicated gateway (F-Link).

Wattalive™ allows you **to view in real time**, per second, the instantaneous load curve from the building general meter. This solution makes it possible to perceive energy consumption in a **concrete and alive** manner, and thus to share consumption information and **involve users /occupants**.

Particularly when regulation focuses on concrete actions in commercial buildings, the contribution of such an educational solution leverages energy saving efforts. The subject of energy performance is becoming a **lively, visible, tangible, shared reality**, involving not only occupants, but also energy efficiency providers whose motivation is stimulated by the visibility of the savings. This technology will be available very soon. Do not hesitate to contact us for more information.

## Testimonial: "Augmented Monitoring" of PV installations

In order to secure the level of production of solar power plants, such as large roofs or parking shades, Green Yellow PV and Fludia have developed a solution for monitoring installations using **IOT Sigfox or LoRawan sensors.** They are installed directly on the distributor's injection meter.

By collecting the production curve every 10 minutes, these sensors facilitate the **rapid detection** of problems occurring on PV installations (eg: incidents related to the modules or inverters, failures of the supervision module) and thus minimize the impact of potentially significant income losses.

*«This supervision solution, installed as close as possible to the injection source and independent of the solar installation itself, is important for in-depth analysis of incidents and optimization of our maintenance actions. The measurement precision also offers the possibility of increasing production figures reliability, figures which are regularly exchanged with our energy distributor for invoicing.» Abdou Abdellah, Green Yellow PV.*

greenyellow
l'énergie entre vos mains

## NILM Workshop 2020

About this subject dear to the heart of Fludia's R&D, the team participated for the 3rd time in the "NILM" Workshop. This 2020 edition, digitized, was held on 11/25/2020 in the more global context of the famous international BuildSys conference. The objective of this workshop is to bring together researchers and companies interested in the theme of energy disaggregation (guessing the operating hours and consumption of the main electrical appliances by measuring only the total load curve). Fludia presented a paper entitled “Edge computed NILM: a phone-based implementation using MobileNet compressed by TensorFlow Lite” to the international community of researchers and companies involved in this promising subject.

## 2021 Events Calendar

This year, due to the health crisis, many events planned in France and in Europe have been postponed to 2021. To come meet our team in person, here are the essential events for 2021. Do not miss them!

**E-world energy & water**, which will be held in Essen, Germany from May 4 to 6, 2021. Each year in Essen, this exhibition brings together energy professionals from all over the world specializing in a large set of energy topics including supply and new services.

**Energy Time Forum**, initially scheduled for November 2020, will be held in the 2nd quarter of 2021 (date to be confirmed) in Paris at the Pavillon d’Armenonville. Energy Time is the annual forum for energy users in the private and public sector: a rich, energizing and inspiring edition to better manage consumption and share the experience of experts.

**Enlit Europe exhibition** (formerly EUW - European Utility Week) will be held from November 30 to December 2, 2021 in Milan, Italy. It is the meeting place for European electricity and smart grid players.

Please feel free to send us your comments for the next edition. See you soon. The FLUDIA team.