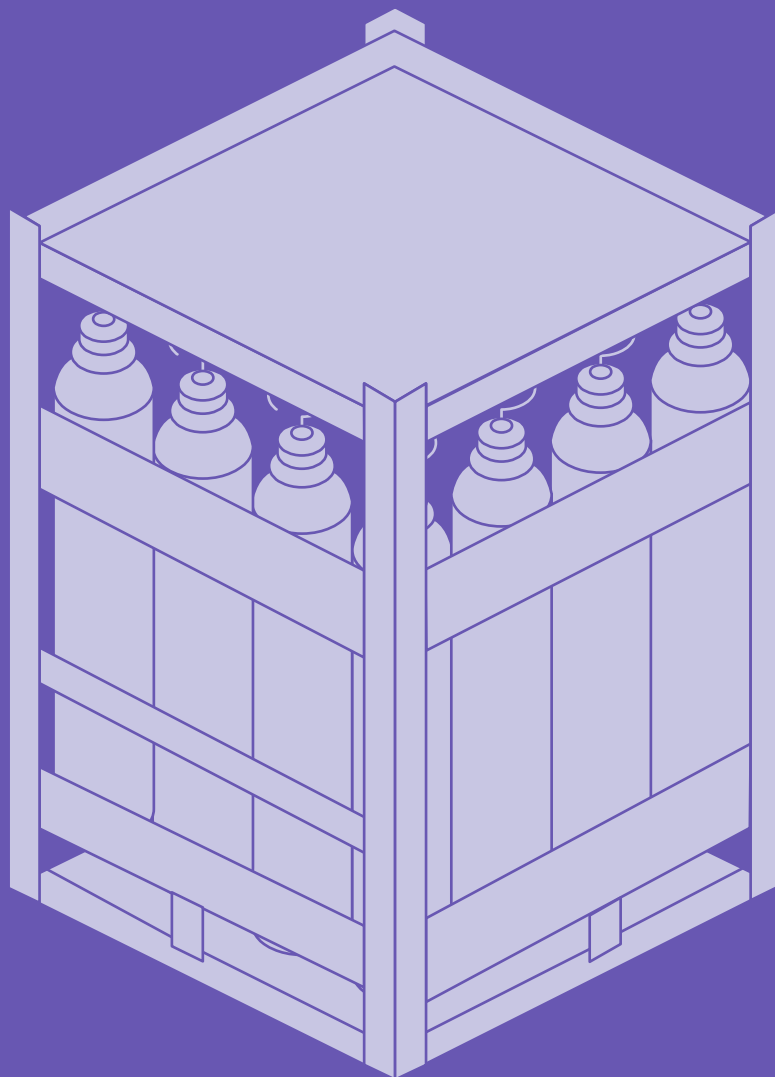




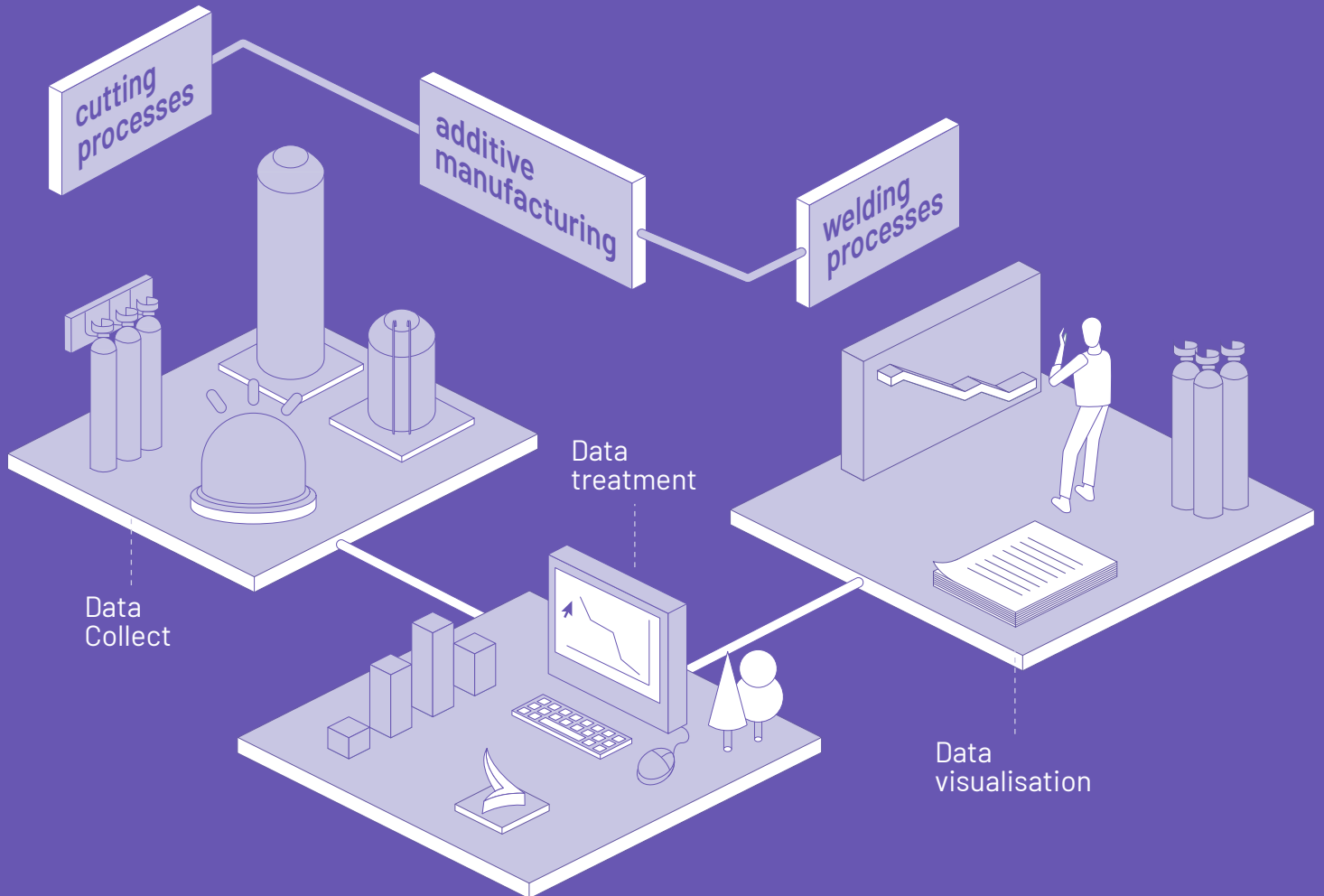
# MiruGas<sup>®</sup>

Nippon Gases process monitoring and analysis service.



Optimise the productivity of your processes supplied by both compressed gas and liquid.

1. **Data collection** through specific sensors for each manufacturing process.
2. **Data processing** to adapt them to each process or factory.
3. **Visualisation** of information in the environment developed by Nippon Gases.





**NIPPON  
GASES**

The Gas Professionals

Process monitoring  
and analysis service

User

Password

SIGN IN

## Control of process parameters

Real-time display and access to history of all monitored data.

- Flow rates and working pressures
- Quality of the gas consumed
- Room temperature and humidity

MiruGas® allows Nippon Gases specialists to advise you to improve and better understand the manufacturing processes.

[mirugas.com](http://mirugas.com)



# Activity reports

Sending monthly and daily reports summarising the activity of the plant.

- Gas consumption
- Machine work factors
- Average and maximum working flows



## SERVICIO DE MONITORIZACIÓN Y ANÁLISIS DE PROCESOS

**Producto:** Nitrógeno O1

**Período de consumo:** 1 al 31 de Mayo de 2021

**Consumo total mes (m3):** 529

**Caudal máximo (m3/h):** 25.6 31/05

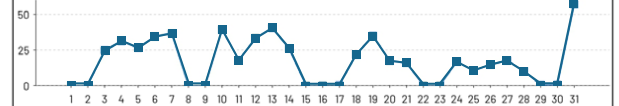
**Fecha de mayor consumo:** 31/05

**Consumo medio diario (m3):** 26.4 por días trabajados (20)

**Consumo medio diario (m3):** 17.1 por días naturales (31)

**Consumo respecto mes anterior (m3):** -1477 %: 26.4

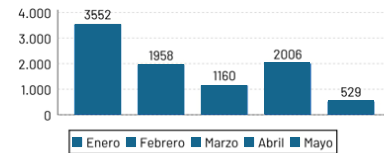
### Relación consumo diario (m3/día) y factor trabajo (%)



|                   |                   |                   |                   |
|-------------------|-------------------|-------------------|-------------------|
| 1 : 0.1 (0.0%)    | 11 : 18.0 (11.1%) | 21 : 15.8 (8.6%)  | 31 : 57.0 (19.2%) |
| 2 : 0.1 (0.0%)    | 12 : 33.3 (20.3%) | 22 : 0.1 (0.0%)   |                   |
| 3 : 24.7 (14.4%)  | 13 : 40.5 (23.1%) | 23 : 0.1 (0.0%)   |                   |
| 4 : 31.1 (19.9%)  | 14 : 26.0 (15.1%) | 24 : 16.8 (10.0%) |                   |
| 5 : 26.5 (16.5%)  | 15 : 0.1 (0.0%)   | 25 : 10.5 (6.2%)  |                   |
| 6 : 34.5 (20.7%)  | 16 : 0.2 (0.0%)   | 26 : 14.6 (9.2%)  |                   |
| 7 : 36.7 (18.5%)  | 17 : 0.3 (0.0%)   | 27 : 17.7 (10.8%) |                   |
| 8 : 0.1 (0.0%)    | 18 : 21.7 (11.1%) | 28 : 10.1 (6.9%)  |                   |
| 9 : 0.1 (0.0%)    | 19 : 35.0 (20.0%) | 29 : 0.4 (0.0%)   |                   |
| 10 : 39.2 (22.6%) | 20 : 17.4 (10.2%) | 30 : 0.5 (0.0%)   |                   |

### Consumos mensuales (m3/mes)

|                |       |
|----------------|-------|
| <b>Enero</b>   | 3.552 |
| <b>Febrero</b> | 1.958 |
| <b>Marzo</b>   | 1.160 |
| <b>Abril</b>   | 2.006 |
| <b>Mayo</b>    | 529   |



Nota: Los cálculos mostrados son orientativos, ya que se basan en datos recogidos automáticamente que pueden verse afectados por apagados (voluntarios del sistema, cortes de cobertura o interrupciones del servicio por parte del proveedor de comunicaciones).

# Notifications via e-mail or SMS

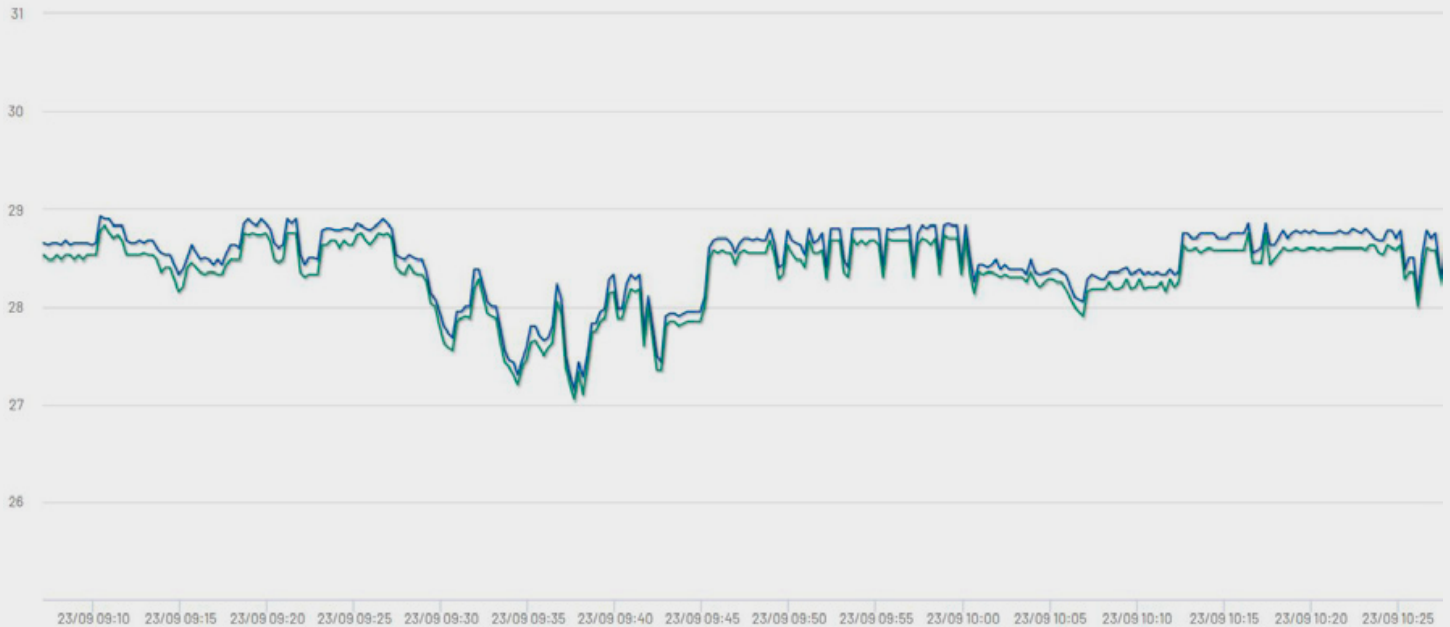
Real-time notifications of alterations in the gas supply or in the manufacturing process.



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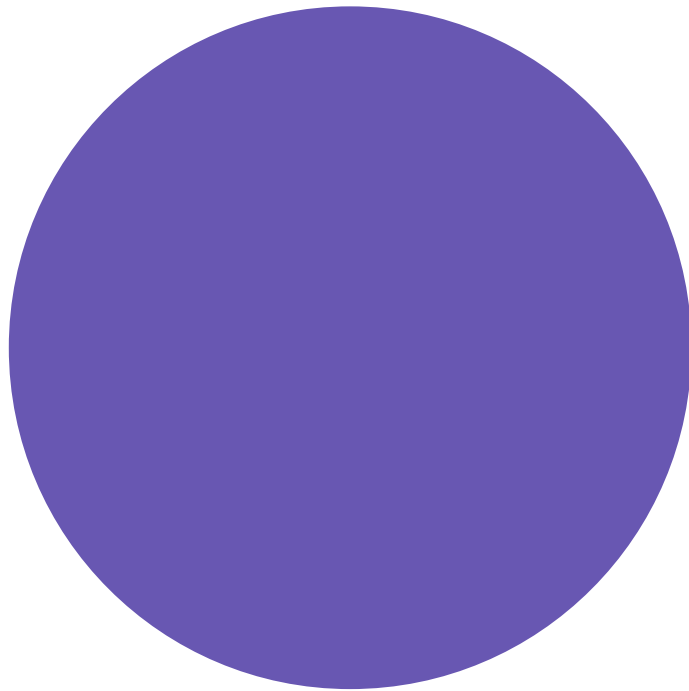
## Help with installation maintenance

Real-time knowledge of the status of critical elements for the correct operation of the installation: filters, etc.





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