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<ul style="list-style-type: none"> 1.- Regasification Plants 1.1. Bilbao Plant - BBG 1.2. Mugaros Plant - REGANOSA 1.3. Sagunto Plant - SAGGAS 1.4. Barcelona Plant - ENAGAS 1.5. Cartagena Plant - ENAGAS 1.6. Huelva Plant - ENAGAS 	<p>The maintenance dates that prevent loading / unloading ship, loading at LNG trucks dock, significantly limit the emission capacity of the Plant, or impose important restrictions on Transportation, must be made viable in the previous monthly schedule.</p>
<ul style="list-style-type: none"> 2.- Transport pipelines - Distribution networks 2.1. Transport Pipelines 2.2. Distribution networks 2.3. Compression Stations 2.4. In Line Inspección (ILI) 	<p>In general, operations that cause significant restrictions on the capacity of infrastructures to enter the System or Transportation during winter are not viable (November 1 to March 31); in these cases it is necessary that they be viable in the previous monthly programming and also in the dates prior to its realization.</p> <p>Maintenances or restrictions involving pipelines or Infrastructures for gas entry into the system, or restrictions at loading at LNG trucks dock, located in the same area of influence, won't simultaneously be programmed.</p>
<ul style="list-style-type: none"> 3.- Underground Storages 3.1. UGS Gaviota 3.2. UGS Serrablo 3.3. UGS Yela 3.4. UGS Marismas 	<p>In transport infrastructures operations that cause gas pipeline interception and also In Line Inspections, infrastructures for gas entry into the system may have to adjust their flows to the specific needs of these operations.</p>
<ul style="list-style-type: none"> 4.- Gas fields and Biomethane 4.1. Viura field 4.2. Palancares Aznalcázar field 4.3. Valdemingómez Biomethane 	<p>The user term refers indistinctly to the shipper, the direct customer in the market or the final customer. The condition of affection to users will be reviewed each month in the monthly update of this document.</p>
<ul style="list-style-type: none"> 5.- International Connections. 5.1. CI Tarifa 5.2. CI Almería 5.3. CI Larrau 5.4. CI Irún 5.5. CI Badajoz 5.6. CI Tuy 	

1.- REGASIFICATION PLANTS

1.1. BILBAO PLANT – BBG

Fecha Periodo	Mantenimiento	Implicaciones Operativas	Nº Ref.
July 4 hrs	Annual preventive review of the relicuador	Maximum production 560.000 Nm3/h. Completed.	350
July	Preventive maintenance of boil-off compressors GB-103 B	Without emission limitations. It will be coordinated to prioritize loading or unloading scheduled operations of vessels. Completed.	352
From 22nd to 26th November	Vaporizers coating maintenance	The maximum capacity in the date window indicated shall be: - Approx. 630,000 Nm3/h if BBE CCGN does not consume - Approx. 730,000 Nm3/h if CCGN BBE consumes. Completed.	356
From 16th to 27th May	Preventive inspection of the High Voltage installation	From 16th to 20th: Without limitations. From 23th to 27th: 3 days with maximum production 630.000 Nm3/h. If necessary, knowing with time, it could be only one of the three days. Completed	357
May / June	Maintenance (overhaul) of unloading arms	Without emission limitations. It will be coordinated to prioritize loading or unloading scheduled operations of vessels. Completed.	358
4th of June	Control system migration (ESD and SSA)	Without LNG loading/unloading; without LNG trucks loading; without emission. Completed	359
From 30th May to 9th June	Substitution of unloading arms PLC	Without LNG loading/unloading. Completed.	302



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1.- REGASIFICATION PLANTS

1.1. BILBAO PLANT – BBG

Fecha Periodo	Mantenimiento	Implicaciones Operativas	Nº Ref.
26th of September	Underwater inspection bottom seawater emissary BBE	Seawater system shut-down requirement for approx. 4h maximum emission in this period by VCS between 160,000 and 180,000 Nm3/h. With a margin before and after the stoppage, considering the decrease and increase of production. BBE, stopped. Completed.	259
From 1st to 3rd of November	Pneumatic test. Installation of a plate exchanger (primary LNG/BOG exchange). Energy efficiency improvement project	Without LNG loading/unloading. Completed.	427

1.- REGASIFICATION PLANTS

1.2. MUGARDOS PLANT – REGANOSA

Date Period	Maintenance	Limitations	Refer. Numb.
17th and 18th February	Maintenance at LNG trucks loading dock	From 06:00 a.m. to 12:00 p.m. During that time one of the two bays will stand inoperative. Completed.	362
16th March	Maintenance at LNG trucks loading dock	From 6 a.m. to 3 p.m. During that time one of the two bays will stand inoperative. Completed.	176
19th and 20th April	Maintenance at LNG trucks loading dock	From 6 a.m. to 3 p.m. During that time one of the two bays will stand inoperative. Completed.	364
1st semester 1 day	Inspection of LNG trucks loading dock scales	From 08:00 a.m. to 02:30 p.m. During that time the two bays will stand inoperative. Completed.	365
1st semester 2 days	Maintenance at LNG trucks loading dock (annual)	From 5 a.m. to 3 p.m. During that time one of the two bays will stand inoperative. Completed.	366
From 21st to 25th of November	Maintenance works of the LNG trucks loading dock	From 09:00 a.m. to 18:00 p.m. During that time one of the two bays will stand inoperative. Completed.	367

1.- REGASIFICATION PLANTS

1.2. MUGARDOS PLANT – REGANOSA

Date Period	Maintenance	Limitations	Refer. Numb.
29 th and 30th of june	Maintenance at LNG trucks loading dock	From 6 a.m. to 3 p.m. During that time one of the two bays will stand inoperative. Completed.	368
From 28th November to 2nd December	Maintenance works of the LNG trucks loading dock	From 09:00 a.m. to 18:00 p.m. During that time one of the two bays will stand inoperative. Completed	369
From 1st to 5th August	Seawater system review. Security ties test. Maintenance of electrical power lin. High voltage legal maintenance	Plant shutdown for 5 days. 1st and 2nd of August: LNG trucks loading dock stop during 12 hours/day. Completed.	373
26th and 27th September	Repair (Electric distributor) of electrical power to the Plant	2 days within 12 hours. Plant shutdown and LNG trucks loading dock shutdown. Its viability will depend on the management of the consumption restriction of the CCGN in the area (REE) and the demand forecast. Completed.	374
19th January	ORV E420 Inspection	One ORV will stand inoperative from 7 a.m. to 7 p.m. Maximum emission in that time slot approx. 210.000 Nm ³ /h. Completed	375
22th March	Maintenance at LNG trucks loading dock	From 6 a.m. to 3 p.m. During that time one of the two bays will stand inoperative. Completed.	177

1.- REGASIFICATION PLANTS

1.2. MUGARDOS PLANT – REGANOSA

Date Period	Maintenance	Limitations	Refer. Numb.
22th February	ORV E410 Inspection	One ORV will stand inoperative from 7 a.m. to 7 p.m. Maximum emission in that time slot aprox. 210.000 Nm3/h. Completed.	376
13th April	ORV E420 Inspection	One ORV will stand inoperative from 7 a.m. to 7 p.m. Maximum emission in that time slot aprox. 210.000 Nm3/h. Completed.	377
25th May	ORV E410 Inspection	One ORV will stand inoperative from 7 a.m. to 7 p.m. Maximum emission in that time slot aprox. 210.000 Nm3/h. Completed.	378
12th July	ORV E420 Inspection	One ORV will stand inoperative from 7 a.m. to 7 p.m. Maximum emission in that time slot aprox. 210.000 Nm3/h. Completed.	379
5th August	ORV E410 Inspection	One ORV will stand inoperative from 7 a.m. to 7 p.m. Maximum emission in that time slot aprox. 210.000 Nm3/h. Completed.	380
19th October	ORV E420 Inspection	One ORV will stand inoperative from 7 a.m. to 7 p.m. Maximum emission in that time slot aprox. 210.000 Nm3/h. Completed.	381
16th November	ORV E410 Inspection	One ORV will stand inoperative from 7 a.m. to 7 p.m. Maximum emission in that time slot aprox. 210.000 Nm3/h. Completed.	382

1.- REGASIFICATION PLANTS

1.2. MUGARDOS PLANT – REGANOSA

Date Period	Maintenance	Limitations	Refer. Numb.
From 9th to 20th May	Unloading arm hose changes	Unload_load of LNG ships unavailable. Completed	384
1st semester 3 days	Maintenance of unloading arm L101B	Discharge capacity limited to 8000 m3gnl/h. Completed.	385
From 26th to 31st March	Annual maintenance of unloading arms	Unload_load of LNG ships unavailable. Completed.	388
From 20th to 25th June	Quarterly maintenance of discharge arms	Unload_load of LNG ships unavailable. Completed.	389
From 19th to 24th September	Semi-annual maintenance of discharge arms	Unload_load of LNG ships unavailable. Completed.	390
From 19th to 23th December	Quarterly maintenance of discharge arms	Unload_load of LNG ships unavailable. Completed	391
From 19th December 2021 to 3rd February	Maintenance works	Maximum emission aprox. 210.000 Nm3/h. Completed.	231
From 10th to 26th August	Works to adapt the jetty	Unload_load of LNG ships unavailable. Completed.	509

1.- REGASIFICATION PLANTS

1.2. MUGARDOS PLANT – REGANOSA

Date Period	Maintenance	Limitations	Refer. Numb.
From 5th to 13th February	Thermal insulation secondary pumps	Maximum emission aprox. 210.000 Nm3/h. Completed.	513
From 18th to 22nd July	ORV Inspection	Maximum emission aprox. 210.000 Nm3/h. Completed.	205
1st to 4th of June	Incidence (leak) in Reganosa' transport network. Mugardos Regasification Plant stopped	Leak in pos. 01.1A Cabanes which cause the impossible emission of Mugardos Regasification Plant until the leak was repaired. Completed.	255
3rd of August	Virtualization SCS	LNG tanks load standing 10h (from 08 h to 18 h). The works affect the nominal capacity of LNG tanks, so during this day can load up to 20 (6.1 GWh) and 35 LNG tanks / day of nominal capacity. Completed.	373
14th of September	Maintenance at LNG trucks loading dock	It affects the nominal tank loading capacity, maximum 17 tanks/day of the 35 tanks/day of nominal capacity. Completed.	361

1.- REGASIFICATION PLANTS

1.3. SAGUNTO PLANT – SAGGAS

Fecha Periodo	Mantenimiento	Implicaciones Operativas	Nº Ref.
12th January	Verification by OCA Isleta A LNG trucks loading dock	The LNG trucks loading dock will stand inoperative from 8 a.m. to 11 a.m. Completed.	237
19th and 25th May	LNG trucks loading dock scale certification	From 8 a.m. to 5 p.m. Two bays will stand inoperative. The capacity will be 6,6 GWh/d. (Nominal Capacity (10,5 GWh/d) will be reduced by 3,9 GWh/d). Completed	392
June - July 2 days	LNG trucks loading dock concrete repair	Two days from 8 a.m. to 5 p.m. The two bays will stand inoperative. Completed.	393
From 12th to 20th September	Cleaning of catchment pool	Maximum emission 800.000 Nm ³ /h. Completed.	398
1st June	Control System Controllers Update (ESD). Bunkering operation.	Without emissions, without LNG trucks loading, without LNG loading/unloading from 7 a.m. to 5 p.m. Completed	400
From 1st to 13th April	Bunkering adaptation works	Unload_load of LNG ships unavailable. Completed	401
17th and 18th May	Biennial LNG truck loading maintenance	1 of 2 bays will be available from 8 a.m. to 17 p.m. The capacity for these two days will be 8,5 GWh/d (Nominal capacity (10,5 GWh/d) will be reduced by 2 GWh/d). Completed.	207
From 7th of 13th of November	Repair dock defense. Phase 1.	Unload_load of LNG ships unavailable. Completed	213



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1.- REGASIFICATION PLANTS

1.4. BARCELONA PLANT – ENAGAS

Date Period	Maintenance	Limitations	Refer. Numb.
From 26th April to 3rd May	Installation 4 PSVs Online download A80	Unload_load of LNG ships at dock A80 unavailable. Completed.	402
30th and 31st March	Plant DCS / SSD / SSA Control systems update	30th March: Without LNG loading/unloading and maximum emission 300.000 Nm3/h. March 31: Total Plant Shutdown for 6 hours (without LNG loading/unloading; without LNG trucks loading; without emission). Completed.	403
From 28th March to 13th April	Pool cleaning Nº 3 North	Maximum emission 1.800.000 Nm3/h. Completed	404
From 19th to 22th March	Repair Bypass Valve XV 5720 LNG inlet to TK3000	Loading/unloading ships unavailable. They will be held on dates without scheduled download. Completed	214
From 21st to 28th September	Insulating review (perlite) TK3000	Unload_load of LNG ships unavailable Completed.	406
From 1st June to 21st July	New scale C at LNG trucks loading dock	LNG trucks loading dock C unavailable (A y B available). Completed.	408



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1.- REGASIFICATION PLANTS

1.4. BARCELONA PLANT – ENAGAS

Date Period	Maintenance	Limitations	Refer. Numb.
From 13th to 29th of June	Pool cleaning N° 4	Maximum emission 1.800.000 Nm3/h. Completed	410
From 19th September to 7th October	Seawater catchment cleaning no. 2	Maximum emission 1.800.000 Nm3/h. Completed	412
From 7th to 28th November	Seawater catchment cleaning no. 5	Maximum emission 1.800.000 Nm3/h. Completed	413
From 21st January to 14th February	Corrective maintenance in seawater lines	Maximum emission: From 21st to 24th January: Emission max. 1.200.000 Nm3/h From 25th January to 21st February: Max. 1.350.000Nm3/h. Completed.	244
16th and 17th February	Substitution of pump 1 hydraulic unit unloading arm	Unload_load of LNG ships at dock A263 unavailable. Completed.	511
13th and 14 th April	Insulation Works Scale A LNG trucks loading dock.	From 8 a.m. to 3 p.m. each day. Without affectation to the nominal daily LNG trucks loading dock. Completed	190
26th May	Calibration work of LNG trucks loading docks.	From 7 a.m. to 3 p.m. Without affection to the nominal daily LNG trucks loading dock. Completed.	209



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1.- PLANTAS DE REGASIFICACIÓN

1.4. BARCELONA PLANT – ENAGAS

Date Period	Maintenance	Limitations	Refer. Numb.
From 9th to 11th May	Adjust/Retighten PERC Unloaded Arm LA-3000B	Unload_load of LNG ships at dock A263 unavailable. Completed.	212
3rd to 6th of August	New scale C at LNG trucks loading dock. Phase 2	LNG trucks loading dock C unavailable (A y B available). Completed.	517

1.- REGASIFICATION PLANTS

1.5. CARTAGENA PLANT – ENAGAS

Date Period	Maintenance	Limitations	Refer. Numb.
From November 2020 to date to be defined	Adaptation and Improvement of Escombreras Dock. Port of Cartagena.	Specific periods of unavailability of the 40M dock (without loading / unloading) to be defined by the Port of Cartagena. Completed.	415
From 28th to 31st March	Compressors GB-223 maintenance. Phase 1	Unload_load of LNG ships unavailable Minimum emission 150.000 Nm3/h. Completed	416
29th March 6 hours	Emergency electric generator tests (Deutz groups)	Maximum emission 300.000 Nm3/h. Minimum emission 150.000 Nm3/h. Completed	417
From 20th April to 17th May	Installation of H2 electrolyzers and new torch pilots	Without loading or cold-setting of ships. Bunkering available. Completed	418
From 14th March to 13th May	Compressors GB-203-A maintenance	BOG recovery limitation: 20,000 Nm3/h. Ship loading limitation: max. 3,000 m3gnl/h. Completed.	419
25th May	NC-218 electrical panel revamping. Phase 1	Total plant shutdown for 6 hours (without LNG loading/unloading; without LNG trucks loading; without emission). Completed.	420
From 4th to 8th April	Corrective maintenance in Phase V vaporizers (3 teams)	If it is necessary to increase to step 7 (1.050.000 Nm3/h) or higher, a notice of 5 days is required. Completed	421
25th May	Discharge due to maintenance of the 66 kV power park	Total plant shutdown for 12 hours (without LNG loading/unloading; without LNG trucks loading; without emission). Completed	422
31st May	NC-218 electrical panel revamping. Phase 2. Day 1	Total plant shutdown for 6 hours (without LNG loading/unloading; without LNG trucks loading; without emission). Completed.	423

1.- REGASIFICATION PLANTS

1.5. CARTAGENA PLANT – ENAGAS

Fecha Periodo	Mantenimiento	Implicaciones Operativas	Nº Ref.
6th July	NC-218 electrical panel revamping. Phase 2. Day 2	Total plant shutdown for 6 hours (without LNG loading/unloading; without LNG trucks loading; without emission). Completed.	288
From 7th to 9th June 8 hours/day	LNG trucks loading dock preventive maintenance	One LNG trucks loading dock unavailable (Two available). Completed.	424
19th to 21st April	DCS / SSD / SSA Systems Update	Total plant shutdown, 20th April, from 7 a.m. to 9 p.m. (without LNG trucks loading; without emission). From 19th to 21st April, Unloading_loading of LNG ships unavailable. Completed	425
From 20th to 24th June	Maintenance instrumentation and valves Relicuator	Without ship unloading. Minimum emission 150.000 Nm ³ /h. Completed.	426
From 8th to 22st August	Works on unloading arm "C"	Unloading_loading of LNG ships unavailable. Completed.	428
6th of July	Inspection of fire ring area cisterns	LNG trucks load unavailable 12 hrs. Limited LNG trucks load 10,800,000 KWh (Nominal 17,402,700 KWh). Completed.	313
From 24th to 29th October	Compressors GB-223 maintenance. Phase 2	Unload_load of LNG ships unavailable Minimum emission 150.000 Nm ³ /h. Completed.	430



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1.- REGASIFICATION PLANTS

1.5. CARTAGENA PLANT – ENAGAS

Fecha Periodo	Mantenimiento	Implicaciones Operativas	Nº Ref.
From 21st January to 17th March	Vaporizer valve replacement (FV-5014)	From 21st to 23th January: Max. emission 900.000 Nm3/h From 24th to 30th January: Max. emission 750.000 Nm3/h From 1st to 7th February: Max. emission 1.220.000 Nm3/h Completed	506
2nd and 3rd March	LNG trucks loading dock Scales Verification	One of the three LNG trucks loading dock will stand inoperative from 8 a.m. to 3 p.m. This maintenance does not affect the nominal capacity of the service. Completed	507
From 4th to 9th February	Maintenance on the PX-221-C unloading arm.	Unload_load of LNG ships at dock A263 unavailable. Completed.	136
From 14th to 18th March	Corrective maintenance in compressor 203-B	Unload_load of LNG ships unavailable Minimum emission 150.000 Nm3/h. Completed	191
15th and 16th March	Phase V connection box replacement	Emission max. 150.000 Nm3/h for 36 hours. Completed.	192
From 19th to 24th of November	Corrective maintenance at the vaporizer outlet circuit valve.	19th -22nd max. 450,000 Nm3/h 23rd and 24th max. 600,000 Nm3/h. Completed.	187



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1.- REGASIFICATION PLANTS

1.5. CARTAGENA PLANT – ENAGAS

Fecha Periodo	Mantenimiento	Implicaciones Operativas	Nº Ref.
12th to 15th December	Installation of emergency generator GE-201	No loading/unloading of vessels. Maximum emission step III. Completed.	497
9th September 2022 to 31st January 2023	Primary Pump Maintenance	Limitation in the load flow of vessels depending on the emission and plant conditions. In progress	580



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1.- REGASIFICATION PLANTS

1.6. HUELVA PLANT – ENAGAS

Date Period	Maintenance	Limitations	Refer. Numb.
From 5th October 2021 to 1st June 2022	Small scale maritime civil works	Barge / feeder loading availability depending on its configuration, upon request. Completed.	431
From 2nd to 9th March	Project to improve maritime civil works and dock hooks. Phase 4	Unload_load of LNG ships unavailable. Completed.	432
From 11th to 17th April	Project to improve maritime civil works and dock hooks. Phase 5	Unload_load of LNG ships unavailable. Completed.	433
From 10th to 23th May	Project to improve maritime civil works and dock hooks. Phase 6	Unload_load of LNG ships unavailable. Completed.	434
From 8th to 16th June	Project to improve maritime civil works and dock hooks. Phase 7	Unload_load of LNG ships unavailable. Completed.	435
From 12th to 16th of June	Fugitive emissions correction	Maximum emission 900.000 Nm3/h. Unload of LNG ships unavailable. Completed.	439
From 13th to 16th of June	Cleaning of emissary I	Maximum emission 1.050.000 Nm3/h. Completed.	440



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1.- REGASIFICATION PLANTS

1.6. HUELVA PLANT – ENAGAS

Date Period	Maintenance	Limitations	Refer. Numb.
17 th May	Update Triconex system cards (SSD) to adapt it to a new version.	Total plant shutdown from 8 a.m. to 8 p.m. Unload_load of LNG ships unavailable. Completed.	441
11th to 15th April	Fugitive emissions correction	Maximum emission 1.050.000 Nm3/h. Completed	442
From 18th to 22nd May	Cleaning of emissary II	Maximum emission 650.000 Nm3/h. Completed.	443
From 10th to 14th May	Cleaning of emissary III	Maximum emission 1.050.000 Nm3/h. Completed.	444
From 14th to 30th November	Dual coupling installation in Scale C at LNG trucks loading dock. FMC arm installation.	Service capacity would be reduced to 15,000,000 kWh/d (equivalent to 50 trucks/d). Completed	446
15th February	Works on the valves of the vaporizer PA-116-I.	From 00 a.m. to 8 p.m. Maximum emission 1.200.000 Nm3/h. Completed.	243
From 26th to 28th April	LNG trucks loading dock Scales Verification	One of the three LNG trucks loading dock will stand inoperative from 8 a.m to 5 p.m. every day. This maintenance does not affect the nominal capacity of the service. Completed	515
From 10th to 13rd May	FV-4142 valve repair	Maximum emission 1.050.000 Nm3/h. Completed.	516



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1.- REGASIFICATION PLANTS

1.6. HUELVA PLANT – ENAGAS

Date Period	Maintenance	Limitations	Refer. Numb.
8th March	Seawater collector III valve repair.	From 6 a.m. to 6 p.m. Maximum emission 1.050.000 Nm3/h. Completed.	137
From 13th to 12th of July	Phase 8: Project to improve maritime civil works and dock hooks.	Unload_load of LNG ships unavailable. Completed.	272
From 15th of June to 15th of July	Compressor BOG unavailable	Load of LNG ships unavailable Small scale loads are posible Duration: 1 month. Completed.	296
3rd August	Inspection of emissary III	Maximum emission 1.050.000 Nm3/h. Completed.	518
From 5th to 9th October	Discharge arm repair	Unload_load of LNG ships unavailable. Completed.	407

2.- TRANSPORT PIPELINES - DISTRIBUTION NETWORKS

2.1. TRANSPORT PIPELINES

Date Period	Maintenance	Limitations	Refer. Numb.
From 8th al 11th August	Variant Rivas - Loeches	Section of the Rivas - Loeches Alcalá Gas Pipeline. During the operation, it is necessary to adapt the supply and interconnection of the Nedgia and Madrileña Red de Gas networks of the affected positions. Completed	449
From 9th to 14th of June; and 18th and 19th July	Defect Repair between pos. 35 Haro y 34 Cenicero	Máx. pressure 66 bara. Completed	273
From 15th to 17th of July	Pipeline leaks between pos. I018 Santiago de Compostela and I019 Rois.	Detection of a small pore in the affected section. Replacing the section. Opening CI Tuy for provisioning to positions from I019 to I025. Completed.	348
6th and 7th July	ERM pos. N10.1 Badajoz. Emergency by_pass valve replacement.	Gas Network Extremadura During the work, the ERM will be supplied with high pressure hoses. Completed.	519
From 13th to 23th September; and from 24th to 26th October	Repair of gas pipeline defect between pos. 39 Arrazua Ubarrundia - pos. 40 Aretxabaleta	Max. limitation 57.6 bar. Completed.	397
From 23th to 25th November	Repair of gas pipeline defect between pos. 29 Alfaro - pos. 28A Tudela	Max. limitation 57.6 bar. Completed.	395



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2.- TRANSPORT PIPELINES - DISTRIBUTION NETWORKS

2.2. DISTRIBUTION NETWORKS

Date Period	Maintenance	Limitations	Refer. Numb.
Drom 21st to 25th November	Nedgia. ERP-00-54 Sant Adrià Besòs (BCN) - Valve Maintenance	Without any planned limitation. B35 UM-35 Puerto BCN, A36-Besos, 4 Papiol, positions network. Completed.	453
During the year (30 days)	Nedgia. ERP-B22-0001 Caja Mágica (Madrid) - Enclosure adaptation	Without any planned limitation. B22.1 Getafe position network. Completed.	454



2.- TRANSPORT PIPELINES - DISTRIBUTION NETWORKS

2.3. COMPRESSION STATIONS

Date Period	Maintenance	Limitations	Refer. Numb.
From 5th October 2022 to april 2023	EC Coreses: TC103 Dismantling / MC103 Installation	One TC unavailable. Two TCs availables.	459
From 7th October to 3rd November	EC Haro: Installation of access doors to the box behind the combustion air filters of the TCs	One TC unavailable. One TC available. Completed.	460
1st to 25th February	EC Almendralejo: TCs 1 and 3 Compressor exchange	Two TCs unavailable. Three TCs available. Completed.	514
From 28th October 2021 to 25th Febraury 2022	EC Tivissa. TC-1 Repair	2 TCs available (without reserve TC). Completed.	134
9th and 10th	C-103 : Modification works CGBT	3 TCs unavailable. Completed	349

2.- TRANSPORT PIPELINES - DISTRIBUTION NETWORKS

2.4. IN LINE INSPECTIONS (ILI)

Date Period	Maintenance	Limitations	Refer. Numb.
From 9th to 13th May	Villar de Arnedo - Haro: In Line Inspection (ILI)	Optimum speed 1 - 3 m/s. It is necessary to modulate P. BBG and CI Irún inputs and AS Gaviota injection. Completed.	462
From 16th to 20th May	Haro - Bergara: In Line Inspection (ILI)	Optimum speed 1 - 3 m/s. It is necessary to modulate P. BBG and CI Irún inputs and AS Gaviota injection. Completed	463
From 23th to 27th May	Barcelona Plant - Banyeres: In Line Inspection (ILI)	Optimum speed 1 - 3 m/s. It is necessary to configure gas pipelines in the area to allow adequate ILI flows. Completed.	464
From 30th May to 3rd June	Tivissa - Banyeres: In Line Inspection (ILI)	Optimum speed 1 - 3 m/s. It is necessary to configure gas pipelines in the area to allow adequate ILI flows. Completed.	465
From 6th to 10th June	Arrigorriaga - Bergara: In Line Inspection (ILI)	Optimum speed 1 - 3 m/s. It is necessary: modulate emission P. BBG, not viable with consumption CCGN Amorebieta, AS Gaviota stopped; CI Irún closed. Completed.	466
From 17th to 21st October	Castelnou-Tivissa: In Line Inspection (ILI)	Optimum speed 1 - 3 m/s. It is necessary: to modulate the emission of P. Cartagena and Sagunto and adequate transport of CI Almería flows; AS Serrablo must take injection flows from the Villar_Zaragoza area. Completed.	467
From 24th to 28th October	Paterna - Puzol: In Line Inspection (ILI)	Optimum speed 1 - 3 m/s. It is necessary: modulate the emission of P. Cartagena and Sagunto and adequate transport of flows CI Almería. Completed.	468
From 31st October to 4th November	Tivissa-Salsadella: In Line Inspection (ILI)	Optimum speed 1 - 3 m/s. It is necessary: modulate the emission of P. Cartagena and Sagunto and adequate transport of flows CI Almería. Completed.	469



2.- TRANSPORT PIPELINES - DISTRIBUTION NETWORKS

2.4. IN LINE INSPECTIONS (ILI)

Date Period	Maintenance	Limitations	Refer. Numb.
2nd- 3rd quarter 4 days	Redexis. CALIBI In Line Inspection (ILI)	Combo Plate + Cleaning, Combo Caliper + MFL if the trap allows it (alternative Caliper first and MFL later). Delivery point pos. 15.20.5 Sant Antoni de Portmany (Ibiza) Enagás. Completed.	473
From 19th to 25th April	Reganosa In Line Inspection ILI O01A - O03	Adaptation of the flow according to the need for speed of the pistons. Completed.	175

3.- UNDERGROUND GAS STORAGEES

3.1. UGS GAVIOTA

Date Period	Maintenance	Limitations	Refer. Numb.
3rd and 5th January	Offshore Platform: Tightness Testing Bottom Valves and Wellhead	Total unavailability Injection / Extraction. Completed.	241
From 10th November 2021 to April 2022	Offshore platform: Overhaul compressor platform TC-A	Injection not available in extraction period. Completed.	474
7th and 8th February	Environmental Measurements	Continuous extraction is necessary. Completed.	475
5th and 6th April	Offshore Platform: Tightness Testing Bottom Valves and Wellhead	UGS Unavailable. Total unavailability Injection / Extraction. Completed	476
19th and 20th of July	Environmental Measurements	Continuous Injection is necessary. Completed.	477
From 1st to 28th November	Substitution of methanol lines	Extraction not available in injection period. Completed	479
From 19th to 20th July	Offshore platform: regulatory environmental measurements	Necessary injection at a rate of approx. 185.000 Nm3/h. Completed.	481
From 28th to 31st December	Replacing the oil coolers of the 3 TCs	Injection not available in extraction period. Completed.	482



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3.- UNDERGROUND GAS STORAGEES

3.1. UGS GAVIOTA

Date Period	Maintenance	Limitations	Refer. Numb.
From 20th to 26th January	Offshore Platform: corrective maintenance process gas pipeline	Total unavailability Injection / Extraction. Completed.	245
From 28th November to 22nd December	Review installations mod. 2 and 3 MUS / Converters	Total unavailability Injection / Extraction. Completed.	173
From 3rd of june to date to be defined	Fault on TC-3 Platform	Injection máx. aprox. 36 GWh/día. In progress	287
13th and 14th July	TC-3 Platform Removal	Total unavailability Injection. Completed.	316
24th and 25th August	Corrective maintenance TC-s A and B Platform.	Limited maximum injection capacity. Completed.	261



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3.- UNDERGROUND GAS STORAGEES

3.2. UGS SERRABLO

Date Period	Maintenance	Limitations	Refer. Numb.
From 16th July 2020 to 1st november 2022	Well Jaca 17. Corrective maintenance of the well integrity.	Injection limitation in Jaca 17 until April 2023. Completed.	484
From 9th to 18th February	MRU Tests (Methanol Recovery Unit)	It is necessary 3 days with extraction approx. 5GWh/day. Completed.	512
From 3rd to 20th November	Well S5 + J2 + S-3 Change Xmas Tree + Well control panel	Total Extraction limitation approx. 19 GWh/d. Completed.	164
From 21st to 28th November	Well S3 + S6 Change Xmas Tree + Well control panel	Total Extraction limitation approx. 51 GWh/d. Completed.	179
From 30th July to 4th August	Well test Jaca 17	Necessary extraction aprox. 20 GWh/día. Injection unavelaible. Completed.	286



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3.- UNDERGROUND GAS STORAGEES

3.3. UGS YELA

Date Period	Maintenance	Limitations	Refer. Numb.
18th March to 10th April	Hydraulic test equipment class 1	UGS Unavailable. Total unavailability Injection / Extraction. Completed.	485
From 21st to 25th March	Electrical Substation Discharge	UGS Unavailable. Total unavailability Injection / Extraction. Completed	486
From 28th March to 1st April	Cybersecurity measures	UGS Unavailable. Total unavailability Injection / Extraction. Completed	487
From 11th to 24th April	Corrective maintenance dehydration towers	Extraction unavailable. Completed.	193
1st to 4th September	Commissioning of lines to improve the extraction process	Extraction unavailable. Completed.	488
25th and 26th July	Wireline works on Y3 and Y4 wells	Injection no unavailable. Completed.	345



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3.- UNDERGROUND GAS STORAGEES

3.4. UGS MARISMAS

Date Period	Maintenance	Limitations	Refer. Numb.
From 1st April to 3rd May	General maintenance.	UGS Unavailable. Total unavailability Injection / Extraction. Completed	489
From 1st to 14th November	General maintenance.	UGS Unavailable. Total unavailability Injection / Extraction. Completed.	490



4.- GAS FIELDS AND BIOMETHANE

4.1. VIURA FIELD

Date Period	Maintenance	Limitations	Refer. Numb.
From 1st August to 3rd September	Regulatory inspections. HIPPS review. Wellhead revision. Scheduled maintenance in various units. Distributed control update.	Gas field unavailable. Completed	491
19th March to 1st April	Well closure due to logistical impossibility of managing the process water	Gas field unavailable. Completed	195
From 7th to 9th September	Maintenance works	Gas field unavailable. Completed	387



5.- INTERNATIONAL CONNECTIONS

5.1. C.I. TARIFA

Date Period	Maintenance	Limitations	Refer. Numb.
From 29th November to 1st December	Corrective valve MRV-213 (by_pass of Mov-11, sea line 1 G. Strait Gibraltar).Verification MS	CI Tarifa unavailable. No trade restriction. Agreement between operators. Completed	182



5.- INTERNATIONAL CONNECTIONS

5.2. C.I. ALMERIA

Date Period	Maintenance	Limitations	Refer. Numb.
From 20th to 22th September	Medgaz. UPS and Torch maintenance in Algeria compressor station	Flow stop. From 6:00 p.m. on 09/20 to 6:00 p.m. on 09/22. Completed.	496
From 30th April to 8th of June	Enagas. MUS L-2 Calibration	One unavailable line and three available lines. Without affecting the maximum capacity of the I.C. Completed.	170

5.- INTERNATIONAL CONNECTIONS

5.3. C.I. LARRAU

Date Period	Maintenance	Limitations	Refer. Numb.
From 11th to 13th May	Various works of GRTGaz in the French system.	Maximum capacity of the VIP Pyrenees in the direction France > Spain is 165 GWh/day. Completed.	498
From 16th to 20th May	Various works of GRTGaz in the French system.	Maximum capacity of the VIP Pyrenees in the direction France > Spain is 165 GWh/day. Completed.	499
From 30th May to 1st July	Various works of GRTGaz in the French system.	Maximum capacity of the VIP Pyrenees in the direction France > Spain is 165 GWh/day. Completed.	500
From 28th to 30th of June	Enagás: Jobs at I.C. Irún Signaling migration	CI Irún unavailability, both due to regulating valves and motor compressors. Maximum capacity of the VIP Pyrenees in the direction France <> Spain is 165 GWh/day (165 GWh/day for I.C. Larrau and 60 GWh/day for I.C. Irún). Completed.	501
From 29th August to 30th September	Various works of GRTGaz in the French system.	Maximum capacity of the VIP Pyrenees in the direction France > Spain is 175 GWh/day. Completed.	502
From 3rd to 7th October	Various works of GRTGaz in the French system.	Maximum capacity of the VIP Pyrenees in the direction France > Spain is 165 GWh/day. Completed.	503
From 14th to 25th November	Teréga : Pipeline Rehabilitation (Local Pirineos)	Maximum capacity of the VIP Pyrenees in the direction France <> Spain is 60 GWh/day (0 GWh/day for CI Larrau and 60 GWh/day for CI Irún). Completed.	504
From 27th to 29th of July	Teréga : pipeline works (Lussagnet)	Maximum capacity of the VIP Pyrenees in the direction France > Spain is 165 GWh/day. Completed.	299
From 24th to 26th of August	Teréga : pipeline works (Lussagnet)	Maximum capacity of the VIP Pyrenees in the direction France > Spain is 165 GWh/day. Completed.	301

5.- INTERNATIONAL CONNECTIONS

5.4. C.I. IRÚN

Date Period	Maintenance	Limitations	Refer. Numb.
From 11th to 13th May	Various works of GRTGaz in the French system.	Maximum capacity of the VIP Pyrenees in the direction France > Spain is 165 GWh/day. Completed.	498
From 16th to 20th May	Various works of GRTGaz in the French system.	Maximum capacity of the VIP Pyrenees in the direction France > Spain is 165 GWh/day. Completed.	499
From 30th May to 1st July	Various works of GRTGaz in the French system.	Maximum capacity of the VIP Pyrenees in the direction France > Spain is 165 GWh/day. Completed.	500
From 28th to 30th of June	Enagás: Jobs at I.C. Irún Signaling migration	CI Irún unavailability, both due to regulating valves and motor compressors. Maximum capacity of the VIP Pyrenees in the direction France <> Spain is 165 GWh/day (165 GWh/day for I.C. Larrau and 60 GWh/day for I.C. Irún). Completed.	501
From 29th August to 30th September	Various works of GRTGaz in the French system.	Maximum capacity of the VIP Pyrenees in the direction France > Spain is 175 GWh/day. Completed.	502
From 3rd to 7th October	Various works of GRTGaz in the French system.	Maximum capacity of the VIP Pyrenees in the direction France > Spain is 165 GWh/day. Completed.	503
From 14th to 25th November	Teréga : Pipeline Rehabilitation (Local Pirineos)	Maximum capacity of the VIP Pyrenees in the direction France <> Spain is 60 GWh/day (0 GWh/day for CI Larrau and 60 GWh/day for CI Irún). Completed.	504
From 27th to 29th of July	Teréga : pipeline works (Lussagnet)	Maximum capacity of the VIP Pyrenees in the direction France > Spain is 165 GWh/day. Completed.	299
From 24th to 26th of August	Teréga : pipeline works (Lussagnet)	Maximum capacity of the VIP Pyrenees in the direction France > Spain is 165 GWh/day. Completed.	301



5.- INTERNATIONAL CONNECTIONS

5.5. C.I. BADAJOZ

Date Period	Maintenance	Limitations	Refer. Numb.



5.- INTERNATIONAL CONNECTIONS

5.6. C.I. TUY

Date Period	Maintenance	Limitations	Refer. Numb.