



RISK SCREENING FOR WATER USE

GALP'S WATER RISK ASSESSMENT

SAFETY AND SUSTAINABILITY DEPARTMENT

DECEMBER 2020



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ACRONYMS AND ABBREVIATIONS

| | |
|--------|---|
| E&P | Exploration and Production |
| FAO | Food and Agriculture Organization |
| G&P | Gas and Power |
| GWT | Global Water Tool |
| IPIECA | Global oil and gas industry association for environmental and social issues |
| TRWR | Total Renewable Water Resources |
| UNH | University of New Hampshire |
| WBCSD | World Business Council for Sustainable Development |
| WRI | World Resources Institute |

1. INTRODUCTION

Water is an essential natural resource for the operation of all industrial activities. The current trends of population growth and consequent urbanization and industrialization have resulted in this resource being increasingly subject to numerous pressures - locally, regionally and globally -, which threaten its sustainability.

In that sense, companies are increasingly concerned with assessing the future availability of water in the areas where they operate and in determining the risks and impacts inherent in the use of water in their activities. In recent years, various tools and methodologies have been developed to help companies respond to this challenge.

The Safety and Sustainability Department of Galp, whilst aware of the need to highlight these topics in its corporate activities, has drawn up and published strategic plans and support studies related with potential impacts of its operations, demonstrating its permanent concern with this theme.

Once the Global Water Tool (GWT) used in previous reports has been discontinued, we have been using, since 2019, the WWF Water Risk Filter and the WRI Aqueduct Water Tool. The Water Risk Filter developed by WWF and the German finance institution DEG and supported by the World Business Council for Sustainable Development (WBCSD), has become a leading and trusted source of water risk data for multinational corporations, SMEs, and financial institutions. This tool helps companies and investors assess and respond to water-related risks facing their operations and investments across the globe. The WRI Aqueduct Water Tool was developed with the support of the Aqueduct Alliance, a coalition of companies, governments and foundations at the cutting edge of water stewardship. This tool map water risks such as floods, droughts, and stress, using open-source, peer reviewed data. It is used to identify and evaluate water risks around the world.

These tools have the advantage of being available online, free of charge, and useful for companies to assess and disclose the use of water and qualitative risks associated with it, in terms of availability and access to water.

The application of the tools presented can be interesting as a first approach to the dissemination of the use of water in Galp and to a risk assessment. However, for the proper management of risks associated with water quality and availability, it is necessary to complement the results obtained in the application of this tool with studies and specific instruments of operational management of the risks and impacts to the facilities at a local scale.

2. SCOPE AND LIMITATIONS

At Galp, any scarcity or uncertainty related with resources, in particular water, both in the present and in the future, represents an operational and strategic concern. In this sense, the knowledge of the risks associated with the use of water in the various regions where it operates or holds a stake is fundamental to the sustainable growth of the Company.

The present document has been prepared with the purpose of presenting the risks associated with water resources, in all locations where Galp Energia operates, through the results obtained from the application of the WWF Water Risk Filter and the WRI Aqueduct Water Tool. Thus, the scope of the study extends to all facilities in which Galp Energia operates or holds a stake, except for the Retail department. On the other hand, this analysis also includes the upstream projects portfolio of the Company, including projects at different stages of development (operation, sanctioned and/or pre-sanctioned, etc...), in order to accompany the strong growth of the upstream segment. In total **85 sites were analysed according to the Company's activities**, organized into the following areas:

- Biofuel units (3);
- Exploration & Production (E&P) (32) (3 *onshore* and 29 *offshore*);
- Renewable Energy Sources (22);
- Storage Facilities (SF) & Terminals (24);
- Refining (2);
- Cogeneration Units (2).

The list of sites under consideration can be consulted in detail in [Annex I](#), as well as the respective coordinates used in the application of the WWF Water Risk Filter and the WRI Aqueduct Water Tool.

The indicators applied to the tool and analysed in this document are divided into two large groups, indicators per use/availability of water of the countries and indicators per watershed.

Indicators per use/availability of water of the countries:

- Total Renewable Water Resources - TRWR in 2019 and projections scenarios for 2025 and 2050;
- Total Water Withdrawal in 2002 (average);

- Industrial Water Withdrawal as part of Total Water Withdrawal in 2002 (average);
- Dependency Ratio;
- Population Served with Improved Water in 2019;
- Population Served with Improved Sanitation in 2019;

Watershed Indicators:

- *Annual Renewable Water Supply* in 2008 and projections scenarios for 2025;
- Baseline Water Stress Index in 2019;
- Physical Water Scarcity (Quantity) in 2019.

The meaning of these indicators can be better understood by reading the corresponding definitions available in the [Glossary](#).

The results for the 2025 and 2050 projections are based on the application of the GWT, before it was discontinued. The indicators 'Water Withdrawal' and 'Annual Renewable Water Supply' are also based on the application of this tool. The use of the GWT entails several limitations, which must be considered when interpreting study results. The potential effects of climate change on water resources are not considered in GWT projections, owing to the complexity of this subject. As such, these projections should be viewed as rough indicators, given the uncertainty involved.

Offshore E&P blocks were only considered for the purpose of assessing eventual risks for the corresponding geographical land areas that are associated with or near them. It should be noted that in the most of offshore blocks, the freshwater consumption is represented by a small portion of the total amount of water used in upstream activities. This fresh water has the main purpose human supply, representing no significant volume for the activity, which main use/consumption comes from saltwater. Since saltwater, not classed as scarce, is predominantly used, the risks associated with these facilities are negligible. Therefore, the conclusions reached within the scope of risk analysis by country should be considered. Regarding risk analysis by watershed, these sites shall be included in the "No Data" category.

3. RESULTS AND DISCUSSION

In this chapter we present the results obtained per activity of Galp, also taking into account the countries where these activities are in place. Subsequently, in each approach there are nine water indicators, which are grouped into two categories: water indicators per country (6) and water indicators per watershed (3).

In Annex II also present the values of the specific indicators for each site, grouped by type of activity. These tables are a summary of the results presented in the document, which allows a better distinction between sites located in areas of greatest risk associated with availability/use of water.

We present the results of the sites under analysis, synthesized according to the area of activity of each one. The areas of activity are broken down as follows:

- Biofuels
- Exploration & Production
- Renewables & New Businesses
- Storage Facilities & Terminals
- Refining
- Gas and Power

Biofuels

In the biofuel's activity, it is analysed a production plant of second-generation biofuels - Enerfuel (Portugal) - and two fields with crop plantations for the production of biofuels (Brazil).

Indicators by country

Total Renewable Water Resources:

- For the three scenarios, the countries where the sites are located presented values of abundant water availability.

Total Water Withdrawal (industrial, domestic and agricultural):

- Portugal is a country characterized as medium-high in terms of total withdrawal.
- In Brazil the level of Total Water Withdrawal is considered low.

Industrial Water Withdrawal:

- Countries characterized with low percentage of withdrawal in this sector.

Dependency Ratio:

- Countries characterized with an average Dependency Ratio.

Population Served with safe drinking water:

- Both countries characterized with high percentage of population served.

Population Served with Improved Sanitation:

- Portugal: High percentage of population served.
- Brazil: medium-high percentage of population served.

Watershed Indicators

Annual Renewable Water Supply *per capita*:

- For both scenarios, current (2008) and medium-term (2025), the watersheds where the sites are located presented values of water availability characterized as abundant.

Baseline Water Stress Index:

- The two Brazil sites under analysis are located in watersheds whose index is classified as low, thus revealing that for these sites, water consumption at current levels does not put in risk the sustainability of existing water resources. On the other hand, Enerfuel was classified as extremely-high index.

Physical Water Risk (Quantity):

- Palma crops (Tomé-açu/Pará) is characterized as having high risk, and Palma crops (Tailândia/Pará) and Enerfuel as having some physical water risk.

Note: The sites associated with the biofuels activity do not have water risks. Although within the scope of this study there are no water risks related, water monitoring campaign to these sites may be done, in order to check the sensitivities to which they may be subject to.

Exploration & Production

In the E&P area, Galp holds a stake in Blocks located in Angola (3), Brazil (21), Mozambique (2), Namibia (2), S. Tome and Principe (3) and East Timor (1), totalling a set of 32 blocks.

In this study, we are reminded that in the blocks of offshore E&P the analysis follows a merely informative purpose regarding water risks, since they are located in the ocean and the data presented here are associated with terrestrial geographical areas located nearby. Note also that in most offshore Blocks, the consumption of water from sources of fresh water corresponds to a small fraction of the activity's consumption, which aims to supply water for human consumption, whereby it represents negligible volumes, where the main consumption/use comes from salt water. Thus, the water risks associated with the sites under these conditions are practically negligible, since the main use comes from a water source whose use is not characterized as being scarce – unlike freshwater.

Indicators by country

Total Renewable Water Resources:

- Current scenario – All the countries where Galp has activity in the E&P area do not have, currently, water risks. For East Timor it has not been possible to obtain information.
- Medium (2025) and long-term (2050) scenario – E&P Blocks, for both scenarios, are located in countries where water availability is abundant or sufficient (Angola Block's).

Total Water Withdrawal (industrial, domestic and agricultural):

- Smaller withdrawal volumes are recorded in countries located in Africa (Angola, Mozambique, Namibia and Sao Tome and Principe).
 - Larger volumes of water withdrawal can be seen in the remaining countries.
 - No information was obtained for East Timor.

Industrial Water Withdrawal:

- Similar results in all countries, with a low percentage of withdrawal in this sector (below 20%).
- No information was obtained for East Timor.

Dependency Ratio:

- Greater external dependence on water: Mozambique and Namibia.
- Zero water dependency: Angola and São Tomé and Príncipe.
- Medium external dependency: Brazil.
- No information was obtained for East Timor.

Population Served with safe drinking water:

- Low percentage of population served: Angola and Mozambique.
- Medium percentage of population served: Namibia.
- High percentage of population served: Sao Tome and Principe, and Brazil.

Population Served with Improved Sanitation:

- Low percentage of population served: Angola, Mozambique, Namibia, São Tomé and Príncipe.
- Medium-high percentage of population served: Brazil.

Watershed Indicators

In this section of indicators per water withdrawal area, it has not been possible to obtain results for all the sites presented for the E&P activity. Below is the information collected for sites located in onshore Blocks for which it was possible to get results: Brazil (2).

Annual Renewable Water Supply *per capita*:

- Current scenario – two of the onshore blocks, located in Brazil (Rabo Branco Field) and Mozambique (LPG Plant) are located in watersheds with water availability classified as being sufficient.

- Medium term scenario (2025) – renewable water resources are likely to decrease in the watershed of Rabo Branco Field, becoming liable to water stress. Also, the watershed of the Sanhaçu Field tends to decrease water availability, being likely to reach levels characterized as sufficient.
- For the remaining blocks, water risks are not identified in terms of water availability, as they are located in watersheds with abundant water availability, for both scenarios.

Baseline Water Stress Index:

- Of the Blocks under analysis, with available results, all are located in watersheds whose index is classified as low-medium, revealing that, for these sites, water consumption at current levels do not put in risk the sustainability of existing water resources.

Physical Water Risk (Quantity):

- Sanhaçu Field Block and Rabo Branco Field, in Brazil are located in watersheds characterized as having high levels of physical water risk.

Note: The E&P blocks identified as having water risks, should be monitored with particular attention by their respective business units in order to minimize possible impacts in terms of this resource. In the case of blocks likely subject to water risks, taking into account the projections at medium and long-term, it is recommended that actions and measures aimed at the adaptation of these sites be promoted in order to check the sensitivities to which they may be subject to. It is further recommended, in prior studies of project realization, that the analysis on availability of the water resource at the site be included in order to predict, in advance, the possible risks that may affect the sustainable development of the activity, as well as of the surrounding community.

Renewables & New Businesses

In the Renewables & New Businesses activity, 22 facilities are included, which three are in Portugal and 19 in Spain.

Indicators by country

Total Renewable Water Resources:

- Both in the current scenario, medium (2025) and long-term (2050) projections, the facilities are associated to a country with abundant water availability.

Total Water Withdrawal (industrial, domestic and agricultural):

- Portugal is a country characterized as being medium-high in terms of total withdrawal, followed by Spain.

Industrial Water Withdrawal:

- Portugal is a country characterized by a low percentage of withdrawal in this sector.

Dependency Ratio:

- Portugal has a medium external dependency.
- Lower external dependency - in Spain.

Population Served with Improved Water:

- Portugal and Spain have a high percentage of population served.

Population Served with Improved Sanitation:

- Portugal and Spain have a high percentage of population served.

Watershed Indicators

Annual Renewable Water Supply *per capita*:

- Information has not been identified for the respective areas.

Baseline Water Stress Index:

- Parkalgar is classified as extremely-high index, revealing that this site is located near water resources that are at high risk in terms of sustainability. The other facilities in Portugal are located in watersheds whose index is classified as being medium-high, thus revealing that for these sites the consumption of water at current levels can put in risk the sustainability of existing water resources. It has been assumed that the facilities in Spain are located in watersheds whose index is classified as being high.

Physical Water Risk (Quantity):

- Parkalgar, Ventiveste and Parque Vale Grande are characterized with some physical water risk.

Note: The facilities identified as having water risks should be monitored with particular attention by their respective business units in order to minimize possible impacts in terms of this resource as well as of the surrounding community. In the case of facilities likely to being subject to water risks, taking into account the projections in the medium and long-term, it is recommended that actions and measures aimed at the adaptation of these sites be promoted in order to check the susceptibilities that they may be subject to.

Storage Facilities & Terminals

The fuel storage parks owned by Galp are spread over several geographical areas: Cape Verde (3), Spain (3), Guinea-Bissau (3), Mozambique (2), Portugal (9) and Eswatini (1). As for the three terminals, all are located in Portugal. In total, 24 facilities are addressed in this activity, which are below analysed according to each indicator.

Indicators by country

Total Renewable Water Resources:

- Current scenario - facilities located in Cape Verde are characterized by water scarcity situation.
- Medium (2025) and long-term (2050) scenario- facilities located in Cape Verde are more likely to match a situation of extreme water scarcity.
- The remaining storage parks and terminals, in both scenarios, are located in countries where water availability is abundant or sufficient.

Total Water Withdrawal (industrial, domestic and agricultural):

- Smaller withdrawal volumes were recorded in the countries located on the African continent.
- Larger volumes of water withdrawal are identified in Portugal, followed by Spain.

Industrial Water Withdrawal:

- Similar results in all countries, with a low withdrawal percentage in this sector (below 20%).

Dependency Ratio:

- Greater external dependency on water – Mozambique was the country that showed a greater dependency for this area of activity.
- Lower external dependency - in Spain and Cape Verde. In particular for Cape Verde, this water independence may be due to water being obtained through a desalination process.

- The other countries under analysis have a medium Dependency Ratio.

Population Served with Improved Water

- Low percentage of population served: Mozambique.
- Medium percentage of population served: Guinea-Bissau and Eswatini.
- Medium-high percentage of population served: Cape Verde.
- High percentage of population served: Spain and Portugal.

Population Served with Improved Sanitation:

- Low percentage of population served: Mozambique and Guinea-Bissau.
- Medium percentage of population served: Cape Verde and Eswatini.
- High percentage of population served: Spain and Portugal.

Watershed Indicators

In this section of indicators per watershed, it was not been possible to obtain results for all facilities belonging to this activity. Below is the information collected for facilities located in Mainland Portugal, Spain (Mérida Park), Mozambique and Eswatini.

Annual Renewable Water Supply *per capita*:

- Current scenario - The Storage Park of Mitrena is located in a watershed whose water availability is scarce. This result may be because this indicator is presented in the form of $m^3/\text{person}/\text{year}$, which will vary depending on the population density associated with the location of the watershed.
 - Medium term scenario (2025) - the situation for the Mitrena Storage Park remains and you can see that the LPG Park located in Mozambique will be likely to be located in a watershed with water shortage.
 - For the remaining Galp sites there are no water supply risks associated in both scenarios.

Baseline Water Stress Index:

- The facilities in Mozambique and Eswatini are located in watersheds whose index is classified as being low and low-medium, respectively, revealing that water consumption at current levels does not put at risk the sustainability of existing water resources. In the other hand, Sigás, Park of Bancas de Sines, Park of Mitrena, and Terminal de Sines are located in sites classified with extremely-high index. Park of Mérida is classified with high, and Viana do Castelo Terminal and Terminal de Leixões with medium high.

Physical Water Risk (Quantity):

- Park of Mérida (Spain) and Matsapha Fuels Park (Eswatini) are located in watersheds with some risk of physical scarcity of water.
- The other facilities are characterized as having limited risk.

Note: The facilities identified as having water risks should be monitored with particular attention by their respective business units in order to minimize possible impacts in terms of this resource as well as of the surrounding community. In the case of facilities likely to being subject to water risks, taking into account the projections in the medium and long-term, it is recommended that actions and measures aimed at the adaptation of these sites be promoted in order to check the susceptibilities that they may be subject to.

Refining

The Refining activity covers two refineries, both located in Mainland Portugal (Matosinhos and Sines).

Indicators by country

Total Renewable Water Resources:

- Both in the current scenario, medium (2025) and long-term (2050) projections, the facilities are associated to a country with abundant water availability.

Total Water Withdrawal (industrial, domestic and agricultural):

- Portugal is a country characterized as being medium-high in terms of total withdrawal.

Industrial Water Withdrawal:

- Portugal is a country characterized by a low percentage of withdrawal in this sector.

Dependency Ratio:

- Portugal has a medium external dependency.

Population Served with Improved Water:

- Portugal has a high percentage of population served.

Population Served with Improved Sanitation:

- Portugal has a high percentage of population served.

Watershed Indicators

Annual Renewable Water Supply *per capita*:

- For both scenarios, the refineries are associated to a watershed with abundant water availability.

Baseline Water Stress Index:

- The Sines refinery is located in a watershed whose index is classified as extremely-high, and Matosinhos Refinery as medium-high.

Physical Water Risk (Quantity):

- Sines and Matosinhos Refinery are characterized by a limited physical water risk.

Note: No water risks have been identified in the refineries – however it is a condition that does not invalidate monitoring by the respective business unit in order to guarantee their non-existence.

Gas and Power

In the Gas and Power (G&P) activity, two (2) facilities are included, which correspond to the Cogeneration Units, located in Mainland Portugal.

Indicators by country

Total Renewable Water Resources:

- Both in the current scenario, medium (2025) and long-term (2050) projections, the facilities are associated to a country with abundant water availability.

Total Water Withdrawal (industrial, domestic and agricultural):

- Portugal is a country characterized as being medium-high in terms of total withdrawal.

Industrial Water Withdrawal:

- Portugal is a country characterized by a low percentage of withdrawal in this sector.

Dependency Ratio:

- Portugal has a medium external dependency.

Population Served with Improved Water:

- Portugal has a high percentage of population served.

Population Served with Improved Sanitation:

- Portugal has a high percentage of population served.

Watershed Indicators

Annual Renewable Water Supply *per capita*:

- Current scenario – the Cogeneration Unit, Agroger, is located in a watershed characterized as being sufficient. This result may be because this indicator is presented in the form of m³/person/year, which will vary depending on the population density associated with the location of the watershed.
 - Medium term scenario (2025) - the situation described in the "current scenario" remains.
 - For the remaining facilities, water risks in terms of water availability in either scenario have not been identified.

Baseline Water Stress Index:

- The facilities are located in watersheds whose index is classified as being medium-high, thus revealing that for these sites the consumption of water at current levels can put in risk the sustainability of existing water resources.

Physical Water Risk (Quantity):

- Agroger is characterized with some physical water risk, and Carriço Co-generation as limited risk.

Note: The facilities identified as having water risks should be monitored with particular attention by their respective business units in order to minimize possible impacts in terms of this resource as well as of the surrounding community. In the case of facilities likely to being subject to water risks, taking into account the projections in the medium and long-term, it is recommended that actions and measures aimed at the adaptation of these sites be promoted in order to check the susceptibilities that they may be subject to.

4. CONCLUSIONS

Through the analysis performed to the Galp sites with the WWF Water Risk Filter and the WRI Aqueduct Water Tool, and according to that which has been presented throughout the document, it is possible to retain the following findings regarding sites owned by Galp in 2020:

- **96,5% of sites** where Galp operates are located **in countries where water availability is abundant or sufficient.**
- **Cape Verde is characterized for being a country with water scarcity,** whose projections tend to worsen towards a scenario of extreme water scarcity. This situation led Galp to developing a more detailed **local study that demonstrates the absence of impacts on freshwater,** given the use of water from the desalination of seawater.
- **Mozambique and Namibia** showed the highest dependency ratio, 53% and 84% of their renewable water resources are located outside the country.
- **Angola and Mozambique** have a low percentage of population served with safe drinking water and with improved sanitation. **Namibia, S. Tomé and Príncipe,** and **Ginea-Bissau** have a low percentage of population served with improved sanitation.
- **Enerfuel, Parkalgar, Sigás, Bancas de Sines, Mitrena facility, Sines Terminal, and Sines Refinery** showed an extremely-high Baseline Water Stress Index, indicating more competition among users.
- The **Palma crops (Tomé-açu/Pará), Rabo Branco and Sanhaçu assets in Brazil** were characterized as being located in a watershed with high physical risk of water scarcity.

The data obtained result from large-scale analysis of the risks associated with water use in certain geographical areas. As such, detailed analysis is recommended for individual sites, when applicable and according to project lifecycle, so that local risks can be fully understood. Only through a detailed analysis of local conditions will the Company be able to define and adopt management and operating practices that may contribute to mitigating eventual risks.

Table 1 presents a summary list that trace the general panorama of the Galp sites in terms of the risks associated with water resources.

Table 1 - Summary of the water-related risks assessment in Galp Energia sites.

| Indicator | |
|---|-------|
| Number of sites analysed | 85 |
| GE sites located in countries with water scarcity ¹ | 3,5% |
| GE sites located in countries whose water availability are abundant or sufficient | 96,5% |

¹ According to the results obtained for the TRWR indicator.

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GLOSSARY

Annual Renewable Water Supply: Mean annual renewable water available per watershed, calculated from global runoff data, based on a water balance model developed by the University of New Hampshire (UNH).

Baseline Water Stress Index: Baseline water stress measures the ratio of total annual water withdrawals to total available annual renewable supply, accounting for upstream consumptive use. Higher values indicate more competition among users.

Dependency Ratio: Percentage of renewable water resources located outside a country (including the percentage of rainwater falling on watersheds in neighboring countries that runs off and is consumed by the country in question). This indicator ranges between 0 and 100%, where 0% represents a country whose entire water resources are located within its borders and 100% represents a country whose entire water supply comes from abroad.

Indicator: Qualitative or quantitative data that reflects the results or performance of a company.

Industrial Water Withdrawal as part of Total Water Withdrawal: Total amount of water withdrawn by the industrial sector as a percentage of Total Water Withdrawal, i.e. not including withdrawal for municipal and agricultural uses.

Physical Water Risk (Quantity): Indicator that considers aridity, water Depletion, Baseline Water Stress, Blue Water Scarcity, Projected Change in Water Discharge, Drought Frequency Probability, and Projected Change in Drought Occurrence. Physical scarcity means that consumption of water resources is becoming close to, or has already exceeded, sustainable limits.

Population Served with safe drinking water: Population with access to adequate sources of water for human consumption, i.e. free from external contamination, particularly fecal contamination, either owing to their hydrogeological characteristics or as a result of active intervention.

Population Served with Improved Sanitation: Population with access to sanitation facilities that prevent contact with human waste.

Renewable Water Resources: Amount of water maintained by the water cycle, thus renewed on a regular basis.

Total Renewable Water Resources (TRWR): Maximum theoretical annual amount of water effectively available in a given country, at a given moment, calculated based on data collected by the Food and Agriculture Organization (FAO).

Although this indicator reflects the same concept as "Annual Renewable Water Supply", the values of both indicators are not necessarily identical, as the corresponding calculation methods are significantly different.

Total Water Withdrawal: Total amount of water withdrawn from all sources, permanently or temporarily, for domestic, industrial and agricultural uses. Total water withdrawal includes the withdrawal of surface and underground water, rainwater collection, municipal water supply and use of desalinated and treated water.



ANNEXES



ANNEX I – GALP ENERGIA FACILITY'S COORDINATES

Table 2 - Galp Energia facility's Coordinates (latitude and longitude).

| Site | Country | Latitude (deg min seg) | Longitude (deg min seg) | Latitude (deg.ddd) | Longitude (deg.ddd) |
|---|------------|---------------------------|----------------------------|-----------------------|------------------------|
| Biofuels | | | | | |
| Tailândia/Pará (Palma crops) | Brazil | 02° 57' 14"S | 46° 57' 00"W | -2.954 | -46.95 |
| Tomé-açu/Pará (Palma crops) | Brazil | 02° 23' 31"S | 48° 08' 52"W | -2.392 | -48.148 |
| Enerfuel (2 nd Generation Biofuel plant) | Portugal | 37° 59' 40"N | 08° 49' 30"W | 37.995 | -8.825 |
| Exploration & Production Blocks | | | | | |
| Campos 791 | Brazil | -24° 33' 54"S | -40° 35' 46"W | -24.565 | -40.596 |
| Uirapuru | Brazil | -25° 02' 56"S | -43° 48' 40"W | -25.049 | -43.811 |
| BM-S-8 | Brazil | -25° 28' 34"S | -44° 11' 56"W | -25.476 | -44.199 |
| North Bacalhau | Brazil | 25° 20' 9"S | 43° 59' 27" W | -25.336 | -43.991 |
| BM-S-11 A | Brazil | -24° 58' 23"S | -42° 36' 25"W | -24.973 | -42.607 |
| BM-S-11 | Brazil | -25° 27' 40"S | -42° 49' 30"W | -25.461 | -42.825 |
| BM-S-24 | Brazil | -25° 24' 54"S | -42° 20' 42"W | -25.415 | -42.345 |
| Sépiea | Brazil | -25° 13' 23" | -42° 31' 22.8" | -25.223 | -42.523 |
| Rabo Branco (onshore) | Brazil | -10° 48' 24"S | -37° 01' 51"W | -10.807 | -37.031 |
| Sanhaçu (onshore) | Brazil | -05° 13' 52"S | -36° 55' 54"W | -5.231 | -36.932 |
| POT-M-663 (POT-16) | Brazil | -03° 53' 20"S | -37° 22' 01"W | -3.889 | -37.367 |
| POT-M-665 (POT-17) | Brazil | -03° 53' 20"S | -37° 07' 05"W | -3.889 | -37.118 |
| POT-M-760 (POT-16) | Brazil | -04° 07' 30"S | -37° 07' 34"W | -4.125 | -37.126 |
| POT-M-853 (POT-17) | Brazil | -04° 23' 35"S | -36° 51' 54"W | -4.393 | -36.865 |
| POT-M-855 (POT-17) | Brazil | -04° 23' 35"S | -36° 36' 43"W | -4.393 | -36.612 |
| BAR-M-300 | Brazil | -01° 38' 52"S | -42° 07' 49"W | -1.647 | -42.130 |
| BAR-M-342 | Brazil | -01° 52' 26"S | -42° 07' 24"W | -1.873 | -42.130 |
| BAR-M-344 | Brazil | -01° 52' 32"S | -42° 52' 23"W | -1.875 | -42.873 |
| BAR-M-388 | Brazil | -02° 04' 16"S | -41° 56' 17"W | -2.071 | -41.938 |
| PEPB-783 | Brazil | -08° 09' 43"S | -34° 21' 04"W | -8.162 | -34.351 |
| PEPB-839 | Brazil | -08° 22' 12"S | -34° 22' 48"W | -8.370 | -34.380 |
| Bloco 14 | Angola | -05° 39' 12"S | 11° 26' 48"E | -5.653 | 11.447 |
| Bloco 14K-A-IMI | Angola | -05° 38' 15"S | 11° 18' 50"E | -5.638 | 11.314 |
| Bloco 32 | Angola | -07° 19' 11"S | 11° 17' 39"E | -7.320 | 11.294 |
| LNG Plant (Rovuma - onshore) | Mozambique | -10° 49' 40"S | 40° 33' 00"E | -10.828 | 40.550 |
| Rovuma Área 4 | Mozambique | -11° 06' 07"S | 41° 02' 47"E | -11.102 | 41.046 |



Table 2 (continuation) – Galp Energia facility's Coordinates (latitude and longitude).

| Site | Country | Latitude (deg min seg) | Longitude (deg min seg) | Latitude (deg.ddd) | Longitude (deg.ddd) |
|---|----------------------|---------------------------|----------------------------|-----------------------|------------------------|
| Exploration & Production Blocks (continuation) | | | | | |
| Block Pel 82 | Namibia | -22° 20' 44"S | 12° 36' 01"E | -22.346 | 12.600 |
| Block Pel 83 | Namibia | -28° 60' 00"S | 14° 00' 00"E | -29.000 | 14.000 |
| Block E | East Timor | -09° 52' 37"S | 126° 14' 53"E | -9.877 | 126.248 |
| Block 6 | S. Tome and Principe | 00° 37' 59" N | 07° 55' 21"E | 0.633 | 7.922 |
| Block 11 | S. Tome and Principe | 00° 13' 15" N | 07° 18' 11"E | 0.220 | 7.302 |
| Block 12 | S. Tome and Principe | -00° 38' 45" S | 07° 17' 35"E | -0.645 | 7.292 |
| Renewable Energy Sources | | | | | |
| Parkalgar (PV Solar Park) | Portugal | 37° 13' 54"N | 08° 37' 46"W | 37.232 | -8.629 |
| Ventiveste (Wind Park Vale Grande) | Portugal | 40° 13' 06"N | 08° 03' 13"W | 40.218 | -8.056 |
| ParkAlgar | Portugal | 37° 13' 54"N | 08° 37' 46"W | 37.232 | -8.629 |
| Ventinveste | Portugal | 40° 13' 06"N | 08° 03' 13"W | 40.218 | -8.056 |
| Parque Vale Grande | Portugal | 40°11'20.10"N | 7°54'46.44"W | 40.188 | -7.912 |
| ESCARNES | Spain | 41°16'11.18"N | 0°17'51.77"O | 16.186 | 17.863 |
| ENVITERO | Spain | 41°15'34.74"N | 0°17'6.81"O | 15.579 | 17.114 |
| MOCATERO | Spain | 41°14'35.80"N | 0°15'8.58"O | 14.597 | 15.143 |
| ESCATRON DOS | Spain | 41°14'32.31"N | 0°16'15.66"O | 14.539 | 16.261 |
| IGNIS UNO | Spain | 41°13'49.17"N | 0°15'10.57"O | 13.820 | 15.176 |
| EMOCION | Spain | 41°14'16.17"N | 0°17'7.23"O | 14.270 | 17.120 |
| MEDIOMONTE | Spain | 41°13'24.99"N | 0°15'47.25"O | 13.417 | 15.788 |
| PALABRA | Spain | 41°13'37.52"N | 0°14'1.13"O | 13.625 | 14.019 |
| ESPLENDOR | Spain | 41°11'47.61"N | 0°20'27.67"O | 11.794 | 20.461 |
| HAZANA | Spain | 41°12'46.33"N | 0°20'12.07"O | 12.772 | 20.201 |
| TALENTO | Spain | 41°12'18.38"N | 0°20'42.06"O | 12.306 | 20.701 |
| EL ROBLEDO | Spain | 41°15'53.04"N | 0°10'16.73"O | 15.884 | 10.279 |
| SIERREZUELA | Spain | 41°15'39.68"N | 0°9'35.81"O | 15.661 | 9.597 |
| RIBAGRANDE | Spain | 41°15'26.63"N | 0°10'22.12"O | 15.444 | 10.369 |
| VALDELAGUA | Spain | 41°15'7.82"N | 0°9'14.46"O | 15.130 | 9.241 |
| VALDIVIESO | Spain | 39°11'12.65"N | 3°19'40.24"O | 11.166 | 9.838 |
| VALDECARRO | Spain | 39°11'12.65"N | 3°19'40.24"O | 11.166 | 19.838 |
| ALCAZAR 1 | Spain | 39°11'12.65"N | 3°19'40.24"O | 11.166 | 19.838 |
| ALCAZAR 2 | Spain | 39°11'12.65"N | 3°19'40.24"O | 15.130 | 9.241 |



Table 2 (continuation) – Galp Energia facility's Coordinates (latitude and longitude).

| Storage Facilities & Terminals | | | | | |
|---|---------------|-----------------|---------------|---------|---------|
| Sigás | Portugal | 37° 57' 54 "N | 08° 52' 24"W | 37.965 | -8.873 |
| Bancas de Sines | Portugal | 37° 57' 22 "N | 08° 53' 08"W | 37.956 | -8.885 |
| Mitrena | Portugal | 38° 28' 43,21"N | 08° 48' 30"W | 38.479 | -8.808 |
| Horta-CL | Portugal | 38° 31' 37"N | 28° 37' 24"W | 38.527 | -28.623 |
| Horta-LPG | Portugal | 38° 32' 32"N | 28° 37' 43"W | 38.542 | -28.629 |
| Flores-CL | Portugal | 39° 22' 40,4"N | 31° 10' 17"W | 39.378 | -31.171 |
| Praia da Vitória – Terceira | Portugal | 38° 42' 18"N | 27° 02' 55"W | 38.705 | -27.049 |
| Nordela LPG – S. Miguel | Portugal | 37° 44' 11"N | 25° 41' 36"W | 37.736 | -25.693 |
| CLCM | Portugal | 32° 44' 33"N | 16° 43' 36"W | 32.743 | -16.727 |
| Leixões Terminal | Portugal | 41° 11' 11,67"N | 08° 42' 24"W | 41.187 | -8.707 |
| Sines Terminal | Portugal | 37° 57' 13,16"N | 08° 52' 53"W | 37.954 | -8.881 |
| Viana do Castelo Terminal | Portugal | 41° 40,5' 00"N | 08° 50' 00"W | 41.686 | -8.828 |
| Mérida | Spain | 38° 54' 15"N | 06° 23' 10"W | 38.904 | -6.386 |
| Gijon | Spain | 43° 33' 2"N | 05° 41' 31"W | 43.551 | -5.692 |
| Valência | Spain | 39° 26' 51"N | -00° 18' 10"W | 39.447 | -0.303 |
| S.Vicente-CL&GPL | Cape Verde | 16° 52' 57"N | -24° 59' 24"W | 16.882 | -24.990 |
| Sal-CL&GPL | Cape Verde | 16° 45' 22"N | -22° 58' 33"W | 16.756 | -22.976 |
| Santiago-CL&GPL | Cape Verde | 14° 54' 45"N | -23° 29' 45"W | 14.913 | -23.496 |
| Bolola | Guinea-Bissau | 11° 51' 38" N | -15° 34' 31"W | 11.861 | -15.575 |
| LPG (GB) | Guinea-Bissau | 11° 50' 25"N | -15° 35' 24"W | 11.840 | -15.590 |
| CLC (GB) | Guinea-Bissau | 11° 50' 19"N | -15° 35' 26"W | 11.839 | -15.591 |
| Beira | Mozambique | 19° 48' 18"S | 34° 50' 35"E | -19.805 | 34.843 |
| Matola | Mozambique | 25° 57' 7"S | 32° 29' 18"E | -25.952 | 32.488 |
| Matsapha | Eswatini | 26° 30' 8"S | 31° 18' 25"E | -26.502 | 31.307 |
| Refining | | | | | |
| Sines Refinery | Portugal | 37° 57' 55"N | -8° 47' 59"W | 37.965 | -8.800 |
| Matosinhos Refinery | Portugal | 41° 12' 13"N | -8° 42' 35"W | 41.204 | -8.710 |
| Cogeneration Units | | | | | |
| Agroger | Portugal | 39° 08' 17"N | -09° 16' 32"W | 39.138 | -9.275 |
| Carriço Co-generation | Portugal | 40° 00' 55"N | -08° 48' 55"W | 40.015 | -8.815 |



ANNEX II – GLOBAL RESULTS PER SITE

Table 3 - National indicators by site. Note: See the caption at the end of the table.

| Site | Country | Total Renewable Water Resources (TRWR) | | | Water Withdrawal | | Dependency Ratio | Population Served with safe drinking water | Population Served with Improved Sanitation |
|---|----------|--|-----------------------------|-----------------------------|-----------------------------|------------|------------------|--|--|
| | | 2019 | 2025 | 2050 | Total | Industrial | | | |
| | | m ³ /inhab/year | m ³ /person/year | m ³ /person/year | m ³ /person/year | 2002 (%) | | | |
| Biofuels | | | | | | | | | |
| Tailândia/Pará (Palma crops) | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| Tomé-açu/Pará (Palma crops) | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| Enerfuel (2 nd Generation Biofuel plant) | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Exploration & Production Blocks | | | | | | | | | |
| Campos 791 | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| Uirapuru | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| BM-S-8 | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| North Carcara | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| BM-S-11 A | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| BM-S-11 | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| BM-S-24 | | | | | | | | | |
| Sépia | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| Rabo Branco Field (onshore) | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| Field Sanhaçu (onshore) | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| POT-M-663 (POT-16) | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| POT-M-665 (POT-17) | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| POT-M-760 (POT-16) | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| BAR-M-300 | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |



| Site | Country | Total Renewable Water Resources (TRWR) | | | Water Withdrawal | | Dependency Ratio | Population Served with safe drinking water | Population Served with Improved Sanitation |
|---|----------------------|--|-----------------------------|-----------------------------|-----------------------------|------------|------------------|--|--|
| | | 2019 | 2025 | 2050 | Total | Industrial | | | |
| | | m ³ /person/year | m ³ /person/year | m ³ /person/year | m ³ /person/year | (%) | | | |
| Exploration & Production Blocks (continuation) | | | | | | | | | |
| BM-PEPB-783 | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| BAR-M-342 | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| BAR-M-344 | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| BAR-M-388 | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| PEPB-783 | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| PEPB-839 | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| POT-M-853 (BM-POT-17) | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| POT-M-855 (BM-POT-17) | Brazil | 41603 | 38508 | 37678 | 331 | 18.0 | 34 | 97 | 86 |
| Bloco 14 | Angola | 5931 | 5393 | 3502 | 24 | 17.1 | 0 | 41 | 39 |
| Bloco 14K-A-IMI | Angola | 5931 | 5393 | 3502 | 24 | 17.1 | 0 | 41 | 39 |
| Bloco 32 | Angola | 5931 | 5393 | 3502 | 24 | 17.1 | 0 | 41 | 39 |
| LNG Plant (Rovuma - onshore) | Mozambique | 7760 | 6961 | 4918 | 33 | 1.6 | 53 | 47 | 23 |
| Rovuma Área 4 | Mozambique | 7760 | 6961 | 4918 | 33 | 1.6 | 53 | 47 | 23 |
| Block PEL 82 | Namibia | 16230 | 6306 | 4939 | 154 | 4.7 | 84 | 78 | 33 |
| Block PEL 83 | Namibia | 16230 | 6306 | 4939 | 154 | 4.7 | 84 | 78 | 33 |
| Block E | East Timor | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. |
| Block 6 | S. Tome and Principe | 13625 | 10093 | 7365 | 53 | n.d. | 0 | 97 | 34 |
| Block 11 | S. Tome and Principe | 13625 | 10093 | 7365 | 53 | n.d. | 0 | 97 | 34 |
| Block 12 | S. Tome and Principe | 13625 | 10093 | 7365 | 53 | n.d. | 0 | 97 | 34 |



| Site | Country | Total Renewable Water Resources (TRWR) | | | Water Withdrawal | | Dependency Ratio | Population Served with safe drinking water | Population Served with Improved Sanitation |
|---------------------------|----------|--|-------------------------------------|-------------------------------------|---|---------------------|------------------|--|--|
| | | 2019 m ³ /person/year | 2025 m ³ /person/year | 2050 m ³ /person/year | Total 2002 m ³ /person/year | Industrial 2002 (%) | 2019 (%) | 2019 (%) | 2019 (%) |
| Renewable Energies | | | | | | | | | |
| Parkalgar | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Ventiveste | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Parque Vale Grande | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| ESCARNES | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| ENVITERO | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| MOCATERO | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| ESCATRON DOS | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| IGNIS UNO | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| EMOCION | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| MEDIOMONTE | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| PALABRA | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| ESPLENDOR | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| HAZANA | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| TALENTO | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| EL ROBLEDO | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| SIERREZUELA | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| RIBAGRANDE | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| VALDELAGUA | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| VALDIVIESO | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| VALDECARRO | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| ALCAZAR 1 | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| ALCAZAR 2 | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |



| Site | Country | Total Renewable Water Resources (TRWR) | | | Water Withdrawal | | Dependency Ratio | Population Served with safe drinking water | Population Served with Improved Sanitation |
|---|------------|--|-----------------------------|-----------------------------|-----------------------------|------------|------------------|--|--|
| | | 2019 | 2025 | 2050 | Total | Industrial | | | |
| | | m ³ /person/year | m ³ /person/year | m ³ /person/year | m ³ /person/year | (%) | | | |
| Storage Facilities & Terminals | | | | | | | | | |
| Sigás | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Bancas de Sines | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Mitrena | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Horta-CL | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Horta-LPG | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Flores-CL | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Praia da Vitória - Terceira | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Nordela LPG - S. Miguel | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| CLCM | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Leixões Terminal | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Sines Terminal | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Viana do Castelo Terminal | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Mérida | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| Gijon | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| Valência | Spain | 2418 | 2263 | 2175 | 861 | 18.5 | 0 | 99 | 99 |
| S.Vicente-CL&GPL | Cape Verde | 601 | 487 | 427 | 47 | 1.8 | 0 | 89 | 63 |
| Sal-CL&GPL | Cape Verde | 601 | 487 | 427 | 47 | 1.8 | 0 | 89 | 63 |
| Santiago-CL&GPL | Cape Verde | 601 | 487 | 427 | 47 | 1.8 | 0 | 89 | 63 |



| Site | Country | Total Renewable Water Resources (TRWR) | | | Water Withdrawal | | Dependency Ratio | Population Served with safe drinking water | Population Served with Improved Sanitation |
|--|---------------|--|-----------------------------|-----------------------------|-----------------------------|------------|------------------|--|--|
| | | 2019 | 2025 | 2050 | Total | Industrial | | | |
| | | m ³ /person/year | m ³ /person/year | m ³ /person/year | m ³ /person/year | (%) | | | |
| Storage Facilities & Terminals (continuation) | | | | | | | | | |
| Bolola | Guinea-Bissau | 17028 | 13502 | 8720 | 120 | 4.6 | 49 | 69 | 21 |
| LPG (GB) | Guinea-Bissau | 17028 | 13502 | 8720 | 120 | 4.6 | 49 | 69 | 21 |
| CLC (GB) | Guinea-Bissau | 17028 | 13502 | 8720 | 120 | 4.6 | 49 | 69 | 21 |
| Beira | Mozambique | 7760 | 6961 | 4918 | 33 | 1.6 | 53 | 47 | 23 |
| Matola | Mozambique | 7760 | 6961 | 4918 | 33 | 1.6 | 53 | 47 | 23 |
| Matsapha | Eswatini | 3504 | 3100 | 2579 | 957 | 1.2 | 41 | 67 | 58 |
| Refining | | | | | | | | | |
| Sines Refinery | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Matosinhos Refinery | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Cogeneration Units | | | | | | | | | |
| Agroger | Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |
| Carrigo generation | Co-Portugal | 7478 | 6417 | 6860 | 1088 | 12.2 | 50 | 99 | 99 |

**Caption of table 3:**

n.d. – no data

Total Renewable Water Resources TRWR

| | | | | | |
|---------|------------------|----------|--------|------------|----------|
| No data | Extreme Scarcity | Scarcity | Stress | Sufficient | Abundant |
|---------|------------------|----------|--------|------------|----------|

Total Water Withdrawal (m³/person/year)

| | | | | | |
|---------|-------|---------|----------|-----------|-------|
| No data | 1-250 | 251-500 | 501-1000 | 1001-2000 | >2000 |
|---------|-------|---------|----------|-----------|-------|

Industrial Water Withdrawal (%)

| | | | | | |
|---------|------|-------|-------|-------|--------|
| No data | 0-25 | 26-50 | 51-75 | 76-90 | 91-100 |
|---------|------|-------|-------|-------|--------|

Dependency Ratio (%)

| | | | | | |
|---------|-----|------|-------|-------|--------|
| No data | 0-5 | 6-20 | 21-50 | 51-85 | 86-100 |
|---------|-----|------|-------|-------|--------|

Population Served with safe drinking water/Improved Sanitation (%)

| | | | | | |
|---------|----------|-----|--------|-------------|------|
| No data | Very low | Low | Medium | Medium-High | High |
|---------|----------|-----|--------|-------------|------|



Table 4 - Watershed Indicators by Galp Energia site. Note: See the caption at the end of the table.

| Site | Country | Annual Renewable Water Supply | | Baseline Water Stress Index |
|---|------------|-------------------------------------|-------------------------------------|-----------------------------|
| | | 2008 m ³ /person/year | 2025 m ³ /person/year | 2019 dimensionless |
| Biocombustíveis | | | | |
| Tailândia/Pará (Palma crops) | Brazil | > 4,000 | > 4,000 | 0.16 |
| Tomé-açu/Pará (Palma crops) | Brazil | > 4,000 | > 4,000 | 0.16 |
| Enerfuel (2 nd Generation Biofuel plant) | Portugal | > 4,000 | > 4,000 | 4.86 |
| Exploration & Production Blocks | | | | |
| Rabo Branco (onshore) | Brazil | 1,700 - 4,000 | 1,000 - 1,700 | 1.37 |
| Sanhaçu (onshore) | Brazil | > 4,000 | 1,700 - 4,000 | 1.20 |
| Other facilities (offshore) | - | n.d. | n.d. | n.d. |
| Renewable Energies | | | | |
| Parkalgar | Portugal | > 4,000 | > 4,000 | 4.70 |
| Ventiveste | Portugal | > 4,000 | > 4,000 | 2.52 |
| Parque Vale Grande | Portugal | > 4,000 | > 4,000 | 2.52 |
| Other facilities (offshore) | Spain | n.d. | n.d. | n.d. |
| Storage Facilities & Terminals | | | | |
| Sigás | Portugal | > 4,000 | > 4,000 | 4.86 |
| Bancas de Sines | Portugal | > 4,000 | > 4,000 | 4.86 |
| Mitrena | Portugal | 500 - 1000 | 500 - 1000 | 4.86 |
| Terminal de Leixões | Portugal | > 4,000 | > 4,000 | 2.47 |
| Terminal de Sines | Portugal | > 4,000 | > 4,000 | 4.86 |
| Viana do Castelo Terminal | Portugal | > 4,000 | > 4,000 | 2.17 |
| Mérida | Spain | 1,700 - 4,000 | 1,700 - 4,000 | 3.19 |
| Beira | Mozambique | > 4,000 | > 4,000 | 0 |
| LPG | Mozambique | 1,700 - 4,000 | 1,000 - 1,700 | 0 |
| Matsapha | Eswatini | 1,700 - 4,000 | 1,700 - 4,000 | 1.67 |
| Other facilities | - | n.d. | n.d. | n.d. |
| Refining | | | | |
| Sines Refinery | Portugal | > 4,000 | > 4,000 | 4.86 |
| Matosinhos Refinery | Portugal | > 4,000 | > 4,000 | 2.17 |
| Cogeneration Units | | | | |
| Agroger | Portugal | 1,700 - 4,000 | 1,700 - 4,000 | 2.46 |
| Cariço Cogeração | Portugal | > 4,000 | > 4,000 | 2.63 |



Caption of table 4: n.d. – no data

Annual Renewable Water Supply

| | | | | | |
|---------|--------------------|----------|--------|------------|----------|
| No data | Extremely Scarcity | Scarcity | Stress | Sufficient | Abundant |
|---------|--------------------|----------|--------|------------|----------|

Baseline Water Stress Index

| | | | | | |
|---------|----------------------|------------|-------------------|------------------|-----------|
| No data | Extremely-high (4-5) | High (3-4) | Medium-high (2-3) | Low-medium (1-2) | Low (0-1) |
|---------|----------------------|------------|-------------------|------------------|-----------|