SINES TECH

Innovation & Data Center Hub

The new EU-Atlantic Data Gateway

Sines, May 28th 2021

2021
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What are the distinctive features of Sines for an IT&T hub?

Sines is…

- Land, Sea & Sunshine
- Infrastructure
- Connectivity
- Electricity
- Water

Sines, Portugal, Europe’s West Coast.

ZILS - Sines' Industrial and Logistics Zone

aicep Global Parques **is a Portuguese State-Owned Enterprise for the development and management of industrial sites:**

- ✓ Managing Sines' Industrial and Logistics Zone (ZILS), 2,375 hectares (ha) for logistics, energy, industry and **IT&T** (occupancy rate at 70%);
- ✓ Served by efficient and improving road & rail links and **high-capacity utility grids for telecom, electricity, natural gas, and water**, and a wastewater treatment plant;
- ✓ A permanent **Environmental Monitoring Plan** is in place for air and surface and underground water quality control;
- ✓ We launched **Sines Tech - Innovation & Data Center Hub** in 2019 with the City of Sines and EllaLink: **300 ha allocated for submarine cables, CLSs and Data Centers!**

Connectivity

Portugal has abundant optical fiber across the country, ducted and aerial. The largest suppliers of fiber backbone, lit and dark, are:

- ✓ **FastFibre** - largest independent Portuguese telecom infrastructure company
- ✓ **REN** - Portuguese TSO with extensive gas and electricity grids;
- ✓ **IP Telecom** - part of the Gov't rail tracks and national roads owner group;
- ✓ **ONI** - the fiber company of the largest private highway operator;
- ✓ **FCCN** - government academic institution owning its own fiber backbone.

More than **8,106 Km of optical fiber cables**:

- ✓ 6,695 Km in the Electric Power Grid (228,327 km of pairs);
- ✓ 1,411 Km in Gas Pipes Grid (3,733 km of pairs);

7 Borders interconnections to Spain (with several utilities).

New diverse route from Sines to Spain is planned for 2025.

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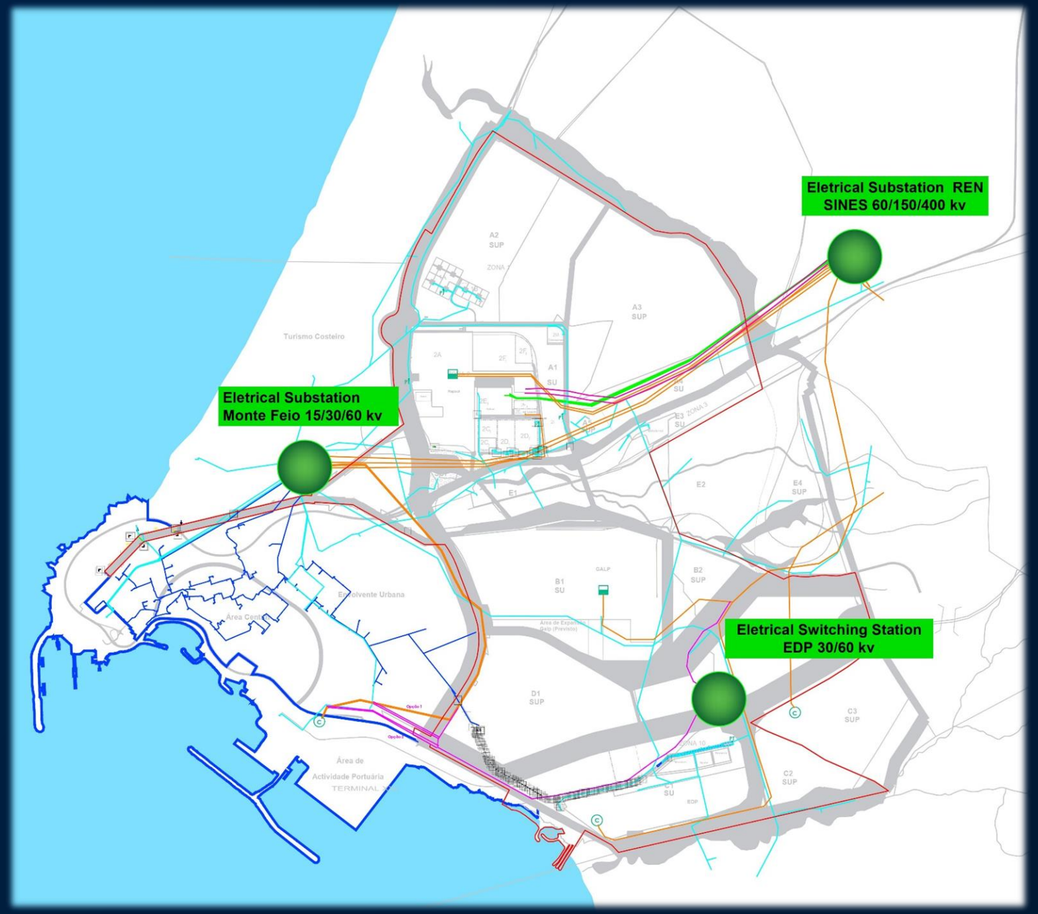
Power Grid

Comprehensive electricity transmission network from “Sines Substation” 400Kv/150Kv/60Kv (East of ZILS), to “Monte Feio Substation” 60Kv/30Kv/15Kv (West of ZILS), a Petrochemical Complex (60Kv), a Refinery (60Kv/150Kv), and a recently deactivated Coal-Fired Powerplant (400Kv). “Monte Feio” connects to the City of Sines, the Port of Sines and factories within ZILS.

A new switching station is being built (30Kv/60Kv) in the southernmost area of ZILS.

New 150Kv and 400Kv lines are coming for two new plants currently setting-up; we support any tailor-made solutions procured by our customers.



Green Electricity

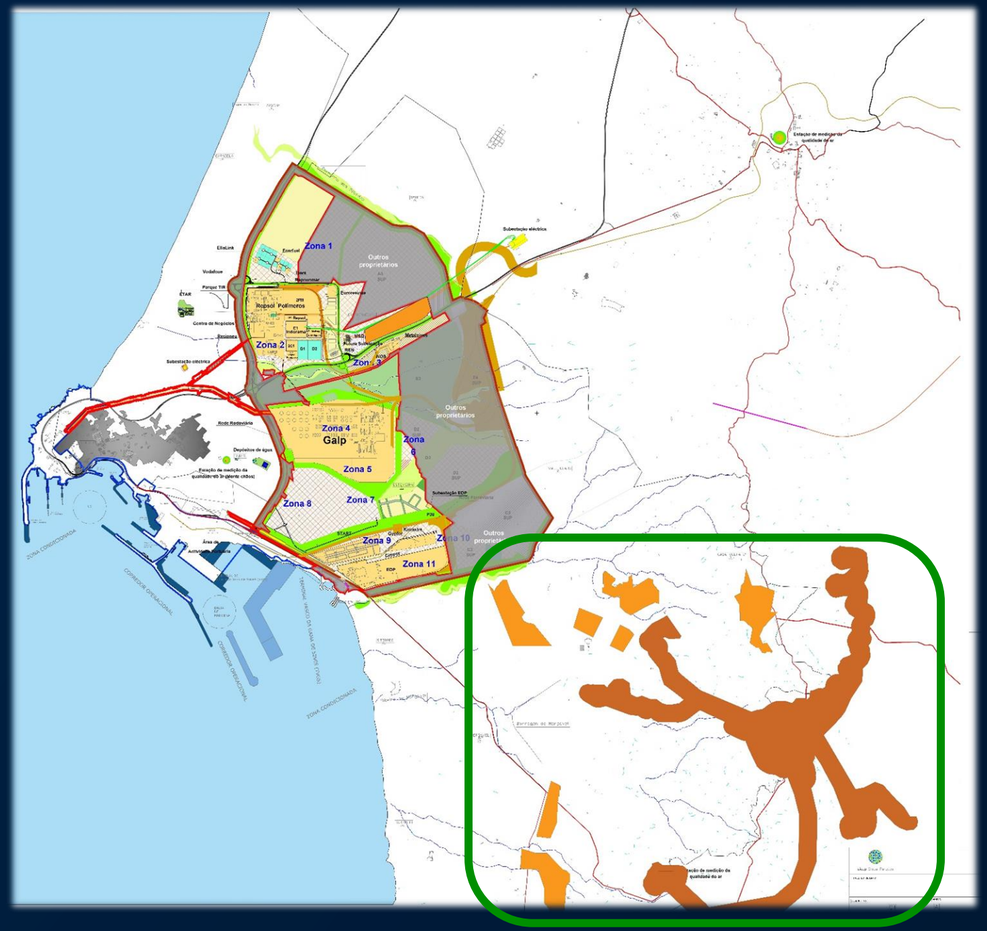
A **Renewable Energy Community (REC)** is to be implemented at ZILS, supplied by the **wind & PV electricity parks** emerging on an array of nearby **private grounds, by private developers**.

Some generation is already in place or being developed, with more in project or undergoing the permitting process.

Promotor: RWE
Capacity: 49,8 MW

Promotor: CJR RENEWABLES
Capacity: 350 MW

Promotor: prosolia energy
Capacity: 1,143 MW



Water

Abundant and high debit supply of industrial usage water:

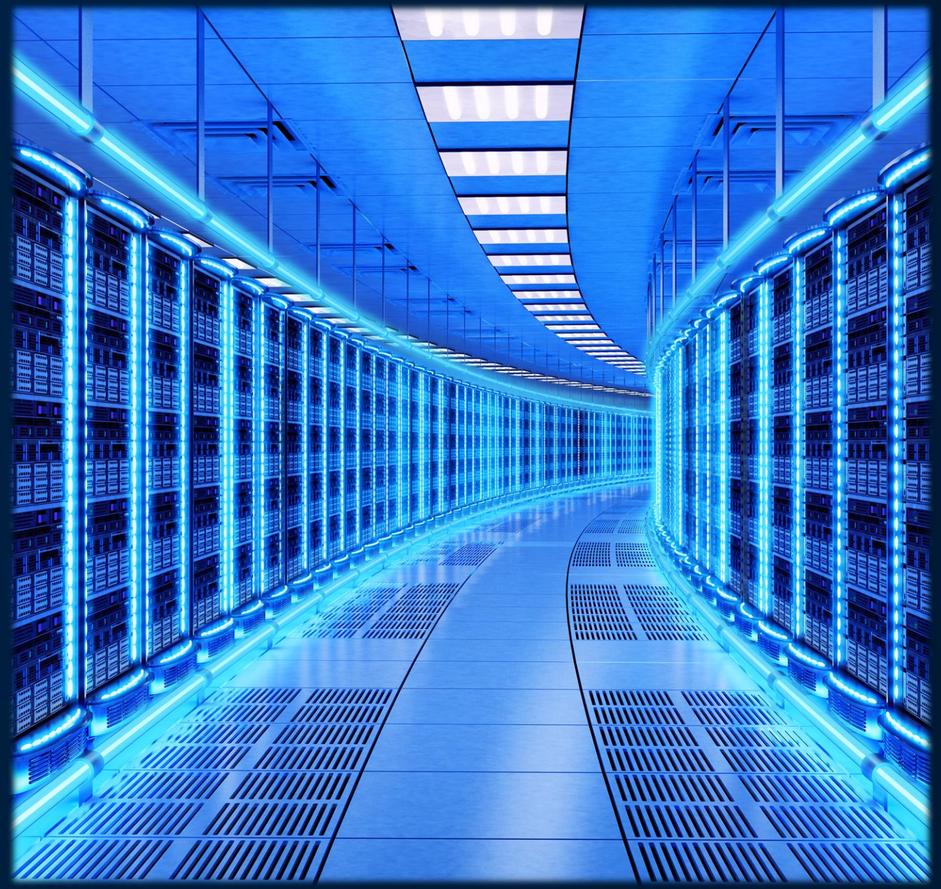
- ✓ current capacity 6m³/per second (518,400m³/day);
- ✓ future capacity 12m³/per second (Q3 2022);
- ✓ ZILS' current consumption: 45,000~50,000m³/day.

Seawater intake & rejection existing private facilities:

- ✓ LNG Storage Tanks (REN);
- ✓ Power Plant (EDP).

ZILS - Sines' Industrial and Logistics Zone business model

- ✓ Any length **Land Use Rights contracts** and renewals with **regressive pricing**, the more area, the lower the price per sqm (range 2€~5€/sqm/year);
- ✓ **Services Contract** complementary to the Land Use Rights, for infrastructures to the plot battery limits and its maintenance, condominium costs (surveillance, fire prevention, forest management, roads and lighting, environmental monitoring plan...), currently at 1,24€/sqm/year + VAT at 23%;
- ✓ **Option contract** allowed, with **50% discount** for a limited period and to be followed by the **Land Use Rights Contract**;
- ✓ Eligibility for **Investment Incentives & Grants** under the Convergence and the Regional Competitiveness and Employment Objectives of the European Union.



Sines Tech - Innovation & Data Center Hub attraction factors

Proximity to Lisbon

Land availability just 1’30’’ driving time to Lisbon and Lisbon Airport. Connection to the national highway network being improved.

Strategic Location

Proximity to the Americas and West Africa, low human activity and excellent seashore and seabed for the safe landing of subsea cables.

Secure & Safe Place

Portugal is ranked the 3rd safest country in the world. Sines is a robust and secure subsea cable landing site.

Qualified HR

Workforce availability, proximity to universities and technical schools. Training and employment center support.

Connectivity

EllaLink submarine cable being inaugurated on June 1st, more intercontinental cables to come. Great hinterland connectivity to Spain and Central Europe.

Electricity Grid

Stable, abundant and redundant electricity supply in HV & EHV. Well connected to the national grid, we already have and welcome 400Kv/150Kv/60Kv transmission lines.

Renewable Energy

Renewable Energy Community in project, to be supplied by cost competitive green electricity from solar, wind and hydro.

Water supply

Cooling options of high debit and abundant industrial usage water supply and/or seawater intakes and rejection.

Sines Tech - Innovation & Data Center Hub facilitation

Plot licensing

The plotting process identifies the project needs and matches them with the requirements of ZILS' Zoning Plan (PUZILS), which is followed by the Environmental Impact Statement (EIS). Specific wider parameters are in place and being added for IT&T.

aicep Global Parques has special licensing capacity and is also the issuing body of the "*Título de Isenção de Alvará de Loteamento*" - Plot licensing within the parameters of PUZILS.

Subsea cables permitting

One-stop-shop Portuguese government system for subsea cable landing permits being setup. In order to expedite the licensing and permitting of subsea cable landings at Sines, as well as the fronthaul to the Cable Landing Station.

Mobilizing several government entities: APA - Environment Agency; DGRM - Directorate-General for Natural Resources, Safety and Maritime Services; DGPC - Directorate-General for Cultural Heritage; and ANACOM - NRA for communications.

Data centre certified site

Sines Tech - Innovation & Data Center Hub is certified by a preliminary due diligence carried out by CAP-DC, an expert and independent certification company.

Validated site features, checked detailed information on total power availability, green power and cooling options, natural and industrial risks to the site and other relevant information to host data centers at Sines.

Sines Tech - Innovation & Data Center Hub first successes

EllaLink

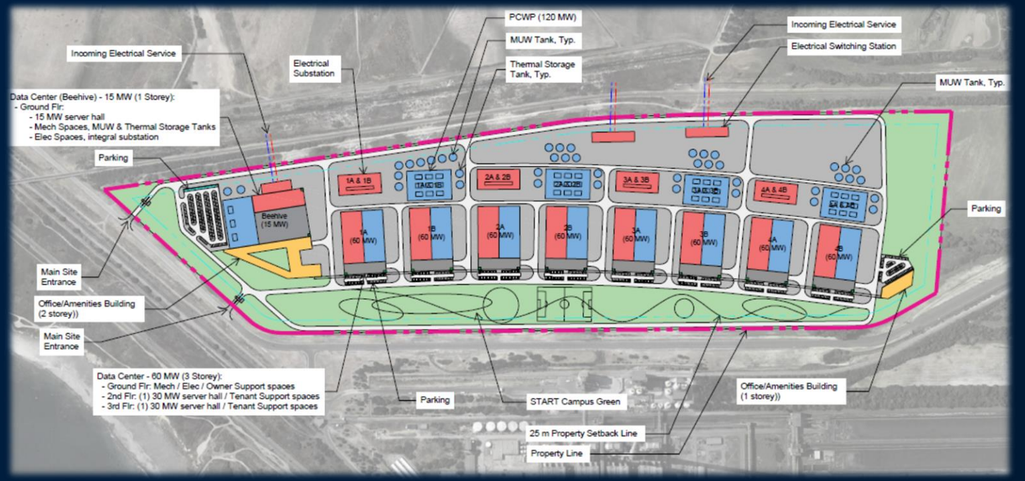
Europe «» South America direct subsea telecom cable

- ✓ **72 TBps** capacity over 4 fiber pairs;
- ✓ **€150 million** investment including the pan-European equity fund Marguerite II and BELLA consortium (Building the Europe Link with Latin America).

START Campus

Sines TransAtlantic Renewable & Technology Campus

- ✓ Mega data center with a capacity of up to **495MW**;
- ✓ **€3.4 billion** investment from a Davidson Kempner & Pioneer Point consortium;
- ✓ **700~1.200 FTE**.



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THANK YOU

FOR YOUR ATTENTION

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