



i-Lanza



HVAC  
FIRE FIGHTING  
EPC PROJECTS



i-Lanza is an international company committed to the highest quality and innovation for personalized EPC projects all around the world. Our prestige comes from our loyalty to our partners, clients and employees together with our strict compliance with schedule, quality and price for each project.

Come along with us to discover why we are the best partner for your challenges.



i-Lanza 

## About us

**i-Lanza** makes the difference by designing, developing and executing **HVAC & Fire Fighting projects** in the industrial sector due to our top **quality design, engineering and execution methods**, delivering top quality personalized **turnkey projects (EPC)** to our clients.

Thanks to our experience, innovation and «know-how» we have developed great industrial projects around the world, standing out from our competitors in **HVAC & Fire Fighting projects**.

More than **40 industrial HVAC projects** in **30 countries** and **4 continents** represent our highest commitment to quality, innovation and safety. **i-LANZA** is certified by **ISO. 9.001/14.001** and **OSHAS 18001**, being one of the few companies in the sector holding this seal.

# EPC Projects

Each project is a unique challenge to develop our «know-how», mixing experience with innovation and top quality and offering all the necessary departments to implement our work just within our company, including **technical office** (engineering), **production** (site managers and officers) and **electrical and mechanical workshops**.

I-Lanza's solution is performing a «total» work, from visiting the client, develop a complete study and project and, finally, the execution with our production and start-up staff from our T.A.S. Department.

Our headquarters are located in Asturias (Spain), but our projects have no limits.



 Design

 Engineering

 Procurement

 Construction

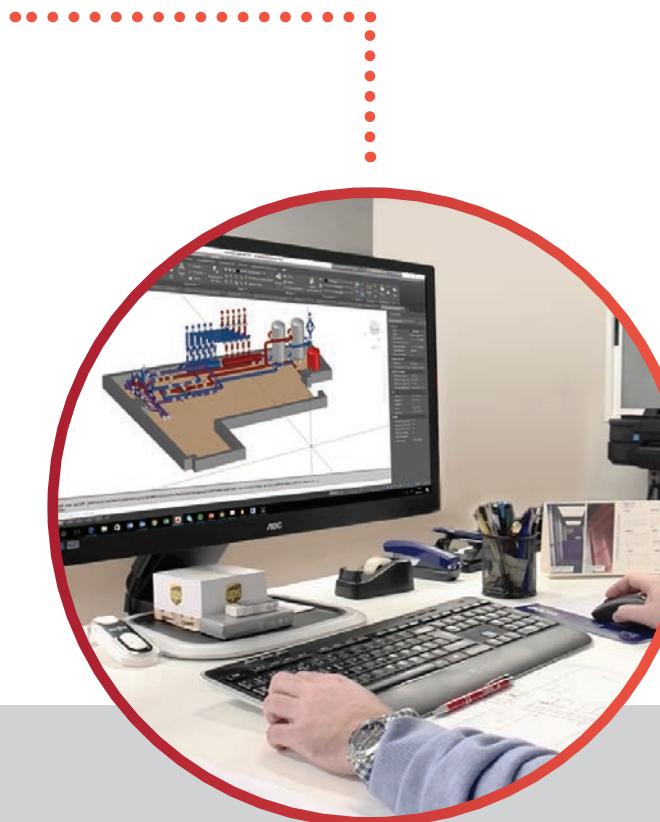
 Start Up

 Management

 Maintenance

## ► Engineering & Manufacturing

**i-Lanza** offers «turnkey» solutions at best quality, developing a project from its very beginning to the end. Designing based on the special characteristics of each location, needs and project, as well as engineering and manufacturing. Always achieving the best solution in time, price and safety.

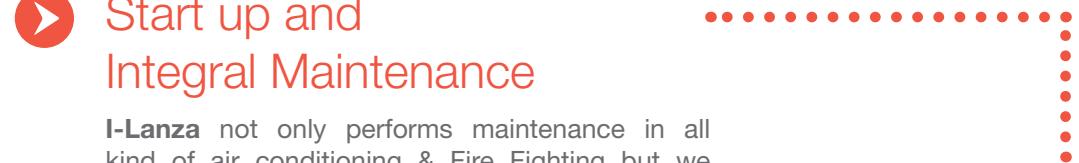


## ► Construction

**i-Lanza** provides high standard solutions in **HVAC** (Heating, Ventilation and Air Conditioning) & **Fire Fighting**. We've achieved the «know-how», H.R. and financial standing to execute large installations, always adapting to personalized scheduling and costs of our clients.

## ► Start up and Integral Maintenance

**i-Lanza** not only performs maintenance in all kind of air conditioning & Fire Fighting but we have developed our «full maintenance building» concept, performing projects of electricity, locksmith, civil works... **i-Lanza** deals on a daily basis with operating companies, banks and institutional buildings.



## ► Others

Manufacturing of Distribution Boards (Electric Panels). We develop and manufacture all kind of electrical cabinets in our own workshops, offering personalized items due to our high standard PLCs, so we can offer our customers a real turnkey solution.

# International presence

More than 40 industrial HVAC & FF projects in 30 countries and 4 continents at our highest commitment to quality, innovation and safety.

That's why many companies around the world rely on I-Lanza for their most ambitious projects. **From Finland to South Africa. From Brazil to United Arab Emirates via Morocco...** Definitely, our next destiny is where our clients need us.

- Projects
- Offices abroad



## ► References

1. Ain Beni Mathar Integrated Thermo Solar Combined Cycle Power Plant. **Morocco**
2. Hassi R'Mel Integrated Solar Combined Cycle Power Station. **Algeria**
3. Bioethanol plant in Europorto. **Holland**
4. Bioethanol plant Lacq. **France**
5. Slurry treatment laboratory in Dublin. **Ireland**
6. Combined cycle plant in Carrington. **UK**
7. Sports Centre & SPA in Perigueux. **France**
8. Sports Centre & SPA in Carpi. **Italy**
9. Combined Cycle CC450 Stalowa Wola Project. **Poland**
10. Storage, switch rooms and COK conveyor belt system in Antipeski. **Siberia**
11. Cogeneration plant. **Belarus**
12. Cogeneration plant in Soto de Ribera. **Spain**
13. Astexol 2 Thermosolar power station. **Spain**
14. Aste B Thermosolar power station. **Spain**
15. Andasol 3 Thermosolar power station. **Spain**
16. Helios 1 Thermosolar power station. **Spain**
17. Helios 2 Thermosolar power station. **Spain**
18. Solacor 2 Thermosolar power station. **Spain**
19. Solaben 6 Thermosolar power station. **Spain**
20. PETRONOR Refinery in Muskiz. **Spain**
21. Water pumping and storage plant. **Angola**
22. Coal mine. **Mauritania**
23. Coal mine in Alexandria. **Egypt**
24. Coal mine. **Iran**
25. In-transit management at sea port in Houston. **EEUU**
26. Thermosolar power station in Agua Prieta. **Mexico**
27. Nuevo Pemex Cogeneration plant in Tabasco. **Mexico**
28. Valle Mexico 1 Combined cycle plant. **Mexico**
29. Combined cycle plant in Cumana. **Venezuela**
30. Combined cycle plant in Guiria. **Venezuela**
31. Combined cycle plant in Panahiba. **Brazil**
32. Coal Mine in Cerro Negro. **Chile**
33. Shams 1 Solar Power Station. **UAE**
34. Sea Water Intake Pumping Station II for Sohar Industrial Port Area (SWIPS II). **Oman**
35. DEWA 200MW Solar PV IPP Power Plant. **UAE**
36. Bioethanol plant. **Uruguay**
37. TSK Group Corporate Headquarter Building. **Spain**
38. EDP Group Corporate Headquarter Building. **Spain**
39. Liberbank Corporate Headquarter Building. **Spain**
40. Accord Hotel in Valencia. **Spain**
41. KAXU Thermosolar plant. **South Africa**
42. Bokpoort Concentrated Solar Power (CSP) Thermal Energy Power Plant. **South Africa**
43. Khi Thermosolar plant. **South Africa**
44. Doha Metro Tunnel Ventilation System (TVS). **Qatar**
45. «package 3» of the Integrated Gas Development (IGD) expansion project in Abu Dhabi. **UAE**
46. Desalination plant in Tenes. **Algeria**
47. Kilpilahti Power Plant Ltd (KPP). **Finland**
48. Combined cycle plant in Djelfa. **Algeria**



## Climate zones

**i-Lanza** develops **HVAC projects** specially adapted for every climatic conditions, from outside temperatures between **55 °C** to **-50 °C**.

For us, each project is unique and special, so every area is previously analyzed to develop and provide the best and most advanced techniques to get the highest quality standards.

# Reference Works Hot Areas

## ➤ AIN BENI MATHAR. MOROCCO

Aïn Beni Mathar Integrated Thermo Solar Combined Cycle Power Plant

Main Contractor: ABEINSA EPC

Customer: OFFICE NATIONAL DE L'ELECTRICITÉ



Customised project for an Integrated Thermosolar Combined Cycle Power Plant in which **i-Lanza** performed all the **HVAC** engineering and implementation, delivering the customer a turnkey with an installed thermal power of more than 1 MW. **i-Lanza**, once the work was finished, kept our commitment to the customer by performing all the maintenance work requirements.

## ➤ ABU DHABI. UAE

Shams 1  
Solar Power Station

Main Contractor: ABEINSA EPC

Customer: MASDAR



This Thermosolar Plant is located in a superextreme atmosphere of 52 °C/100 % RH in which **i-Lanza** carried out all the **HVAC** engineering and implementation, delivering the customer a turnkey project with an installed thermal power of more than 1,5 MW, including specific air treatment procedures in extreme conditions and developing an R&D+I exclusive for this **HVAC** project. Once the installation was finished, we maintained our commitment to the customer by performing all the maintenance work.

## ➤ ABU DHABI. UAE

«package 3» of the Integrated Gas Development (IGD) expansion project

Main Contractor: TECNICAS REUNIDAS

Customer: GASCO



Abu-Dabhi Gas Industries, known as Gasco, needed a major natural gas expansion project aimed at alleviating the Emirate's gas shortage. This project consisted of several gas processing units, gas pipelines, condensated pipelines and all required interconnections. **i-Lanza** performed all **HVAC** engineering and building, delivering our client a personalized turnkey project with an **installed thermal power over 400 MW**.

## ➤ HASSI - R'MEL. ALGERIA

Hassi R'Mel Integrated Solar Combined Cycle Power Station

Main Contractor: ABEINSA EPC

Customer: SONATRACH



For this hybrid power station, a cutting carbon emissions example, **i-Lanza** developed all **HVAC** installation: electrical building, compressor room, administration building, pumps room, fire alarm building, turbines building, water treatment plant, chillers, effluents building, HTF, solar field building and ERM. **800 000 fg/h was installed**. It was inaugurated July, 2011.

► DUBAI, UAE  
**DEWA 200 MW Solar PV IPP Power Plant (Phase II)**

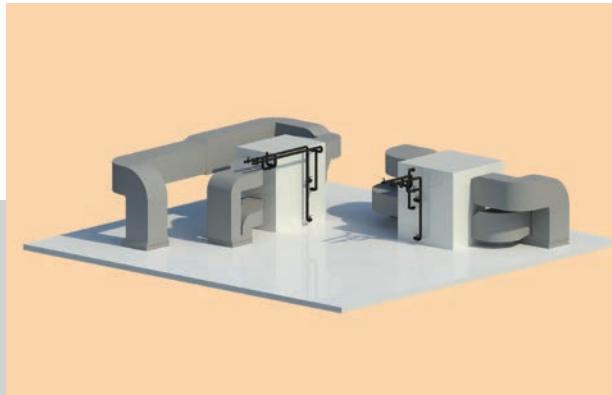
Main Contractor: TSK  
Customer: SHUAA ENERGY IPS.C



This project is part of the Mohammed bin Rashid Al Maktoum Solar Park, which will become the biggest solar plant in the Middle East. **i-Lanza** has developed all the substation **HVAC** system with 188 kW cooling capacity to maintain temperature in the offices between 22 °C and 24 °C and transformer and generator rooms under 50 °C combining innovation and safety.

► DOHA, QATAR  
**Doha Metro Tunnel Ventilation System (TVS)**

Main Contractor: MITSUBISHI HEAVY INDUSTRIES  
Customer: QATAR RAILWAY



For this metro tunnel, scheduled to become operational by the end of 2019, **i-Lanza** has developed **EPC** project for the **HVAC** system. The main challenge is obtaining low temperatures inside the tunnel in order to achieve an excellent performance for **HVAC** units of the trains, so we have designed the temperatures homogenization with the trust of the Tunnel Ventilation System (TVS) and installed 83 rooms with a total **frigorific power of 66.400 kW**.

► BARKA, OMAN  
**Barka 1 Expansion – 10 MIGD SWRO Oman**

Main Contractor: ABEINSA EPC  
Customer: ACWA POWER



**i-Lanza** has developed **EPC** project for the **HVAC**, including all technical and administrative buildings. Conceived on the basis of direct expansion system (DX), inside units of technical rooms are duct concealed type, and the osmosis building has been treated with a ventilation overpressure structure by centrifugal units located on its roof. The total amount of **frigorific power is 830 kW**.

► SOHAR INDUSTRIAL PORT AREA, OMAN  
**Sea Water Intake Pumping Station II (SWIPS II)**

Main Contractor: TÉCNICAS REUNIDAS  
Customer: SOHAR PORT



**i-Lanza** has developed **EPC** project for the **HVAC** of technical buildings with a Variable Refrigerant Flow system (VRF), integrating Air Handling Units with Direct Expansion cooling coils. Outside air is treated with adiabatic heat reco-ver units. Total amount of **frigorific power installed is 980 kW**.

# Reference Works Cold Areas

- **GROBLERSHOOP. SOUTH AFRICA**  
**Bokpoort Concentrated Solar Power (CSP) Thermal Energy Power Plant**  
**Main Contractor:** SENER  
**Customer:** ACWA POWER INTERNATIONAL



For technical and administrative buildings, **i-Lanza** has developed **EPC** project for the **HVAC** system combining chillers and handling units with VRF DX. A unique refrigeration system in the world was conceived for the Salt Tanks, consisting on pipes below the tanks moving air to refrigerate them. Total amount of **frigorific power installed is 525 kW**.

- **VILLAHERMOSA. MEXICO**  
**Nuevo Pemex Cogeneration Plant in Tabasco**  
**Main Contractor:** ABENGOA  
**Customer:** PEMEX



For the largest power plant of its kind in Mexico, **i-Lanza** developed **EPC** project for the **HVAC** engineering and implementation in technical and administrative buildings, delivering the customer a turnkey project with a **frigorific power installed of 890 kW**. It was inaugurated in October, 2012.

- **STALOWA WOLA. POLAND**  
**Combined Cycle Project CC450 Stalowa Wola**  
**Main Contractor:** ABEINSA EPC  
**Customer:** ELECTROCIEPLAWNIA



**i-Lanza** performed all **HVAC** Jobs: Engineering, Erection and start up, making a turnkey Project of more than 2 MW.

**HVAC** Installation was performed in a total of 9 buildings. A heating system was integrated in the city's main district heating in order to take advantage of the hot water provided by the customer, using insulated black carbon steel pipes for the distribution in all the rooms and to keep a comfortable temperature in all conditions.

Likewise, a cooling and ventilation system was performed with units able to work at a high performance with outside temperatures of -20°C.

- **KILPILAHTI. FINLAND**  
**Kilpilahti Power Plant Ltd (KPP)**  
**Main Contractor:** TÉCNICAS REUNIDAS  
**Customer:** NESTE, BOREALIS AND VEOLIA



This ambitious project consisted of replacing the existing Power Plant for a new one according to the latest environmental regulations to reduce carbon dioxide emissions by approximately 20 %.

**i-Lanza** has developed a turnkey project for the **HVAC** system, including engineering, equipment, human resources and material.

With its steam generation capacity of **450 MW** and electricity capacity of 30 MW, KPP is the perfect example displaying how **i-Lanza** combines efficiency, sustainability and safety in the same project.

# Awards

i-Lanza's experience, quality and talent has been rewarded by the most important entities in Spain. Our capacity to adapt to different markets and to offer personalized «turnkey» projects, has been recognized around the world.

But, for us, the most important award has always been our partners and clients' satisfaction.



## National Award

i-Lanza has been honored by **Their Majesties, Felipe and Letizia, Kings of Spain**, with the National Young Entrepeneur 2014 Award for Internationalization.

Guzmán Veiga Pastor, Ceo at i-Lanza, sharing impressions with Doña Letizia, Queen of Spain, after receiving the National Entrepeneur Award for Internationalization.



Guzmán Veiga Pastor, CEO at i-Lanza, in his audience with Felipe VI, King of Spain.

## ► AJE Awards

Among other awards, i-Lanza have been acknowledged with the Young Entrepeneur 2013 Award by European Business School, whose jury comprises the most recognised executives from leading companies from Asturias (Spain).



## ► IMPULSA Awards

i-Lanza has been recognised with the 2016 Gijón Impulsa Award for Young Companies. The jury pointed out the company's international presence and our commitment to the highest quality leading edge technology.





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