



Corporate Presentation

2025

solida.com.es

Contents

01.

SÓLIDA

02.

**+15 years of experience
at your service**

03.

**Solutions adapted to
your needs**

04.

**A joint project: *case
studies***

01.

SÓLIDA



We are a leading engineering and consultancy firm specialized in renewables, experts in digitisation, development of multidisciplinary knowledge and adaptation of **innovative solutions** to each market.



Team of experts focused 100% in renewables

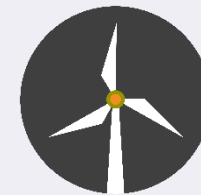
More than 300 professionals exclusively dedicated to renewable energies and electrical infrastructure.

+ 300 employees

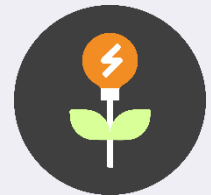
from 14 different countries



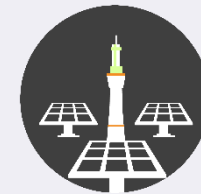
Photovoltaics



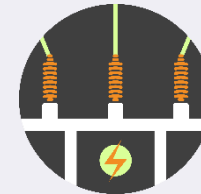
Wind



Biomass



Concentrated Solar



Substations



Power lines



Hybridisation



Storage



Hydrogen

+ 180 GW international experience

Projects in

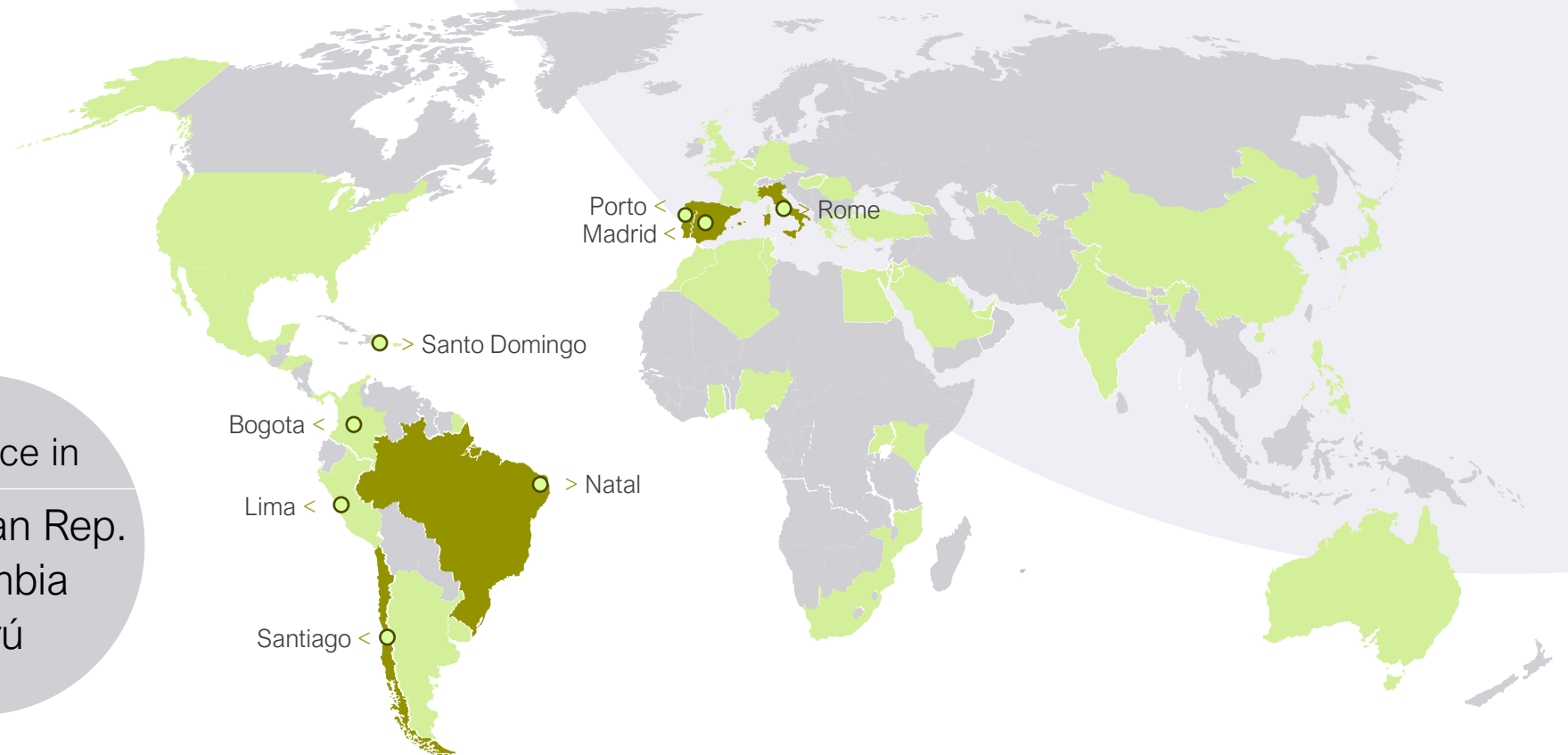
+50
countries

Offices in

Spain Brazil
Italy Chile
Portugal

Presence in

Dominican Rep.
Colombia
Perú



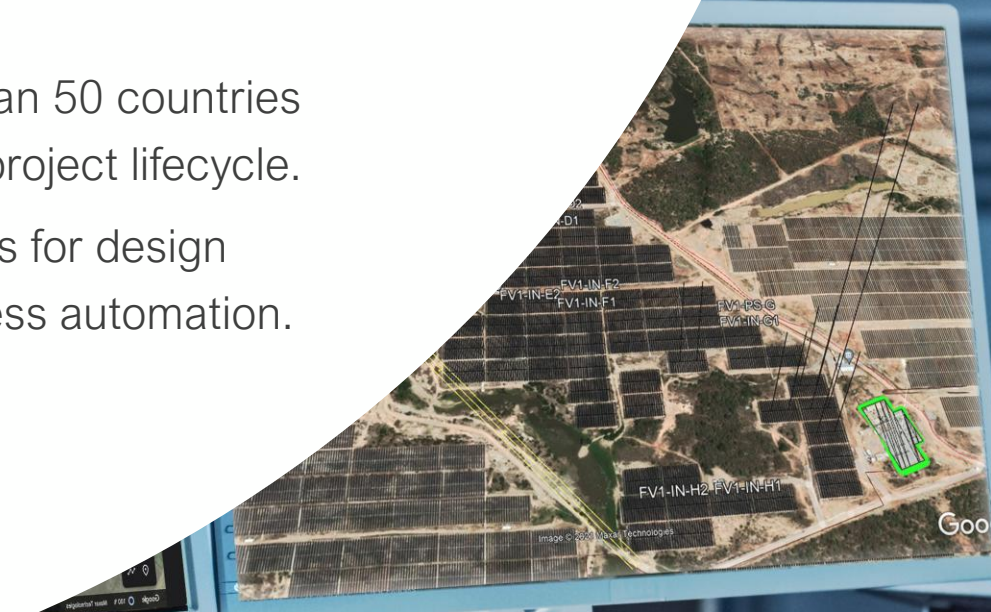
02.

**+15 years of experience
at your service**

02. +15 years of experience at your service

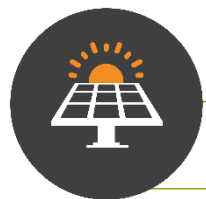
Our leadership is based on more than 15 years of experience in renewables and grid interconnection.

- > We operate in more than 50 countries throughout the entire project lifecycle.
- > We develop digital tools for design optimisation and process automation.



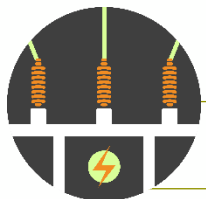


02. +15 years of experience at your service



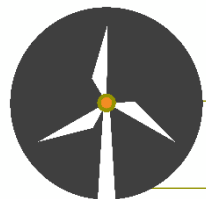
+ 100,000 MW

Photovoltaics



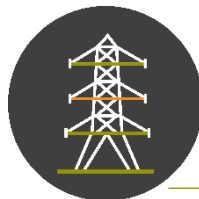
+ 250

Substations



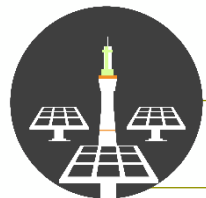
+ 36,000 MW

Wind



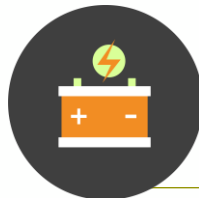
+ 2,000 KM

Power Lines



+ 8,000 MW

Concentrated Solar



+13,700 MWh

BESS



We are technical partners of **world class clients**, delivering specific solutions for every profile.

UTILITIES / IPPS / DEVELOPERS

EPC CONTRACTORS / OEMs

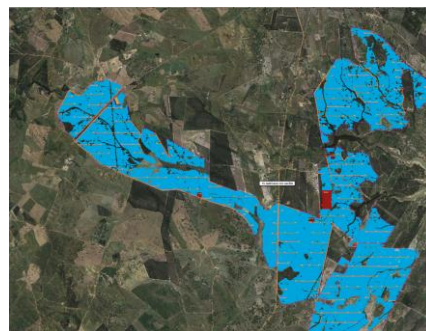
INVESTMENT FUNDS / FINANCIAL INSTITUTIONS



Key projects at a glance



PV Al Dhafra 1,500 MW
(UAE)



PV Santiago do Cacem 1,140 MW
(Portugal)



PV Futura 852 MW
(Brazil)



PV Francisco Pizarro 590 MW
(Spain)



Substation and OHL Campanario
780 MVA 400 kV (Spain)



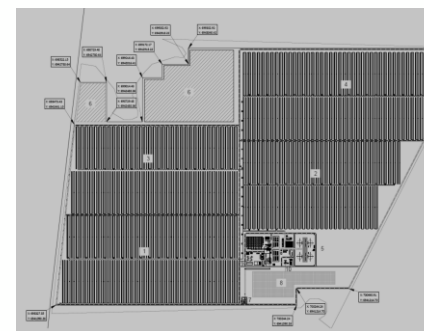
Hybrid complex Wind+PV+Storage
Heolios 900 MW (Chile)



Hybrid complex CSP+PV
Noor Middelt 800 MW (Morocco)



Clarke Creek Wind Farm 800 MW
(Australia)



PV Kathu 375 MW
(South Africa)

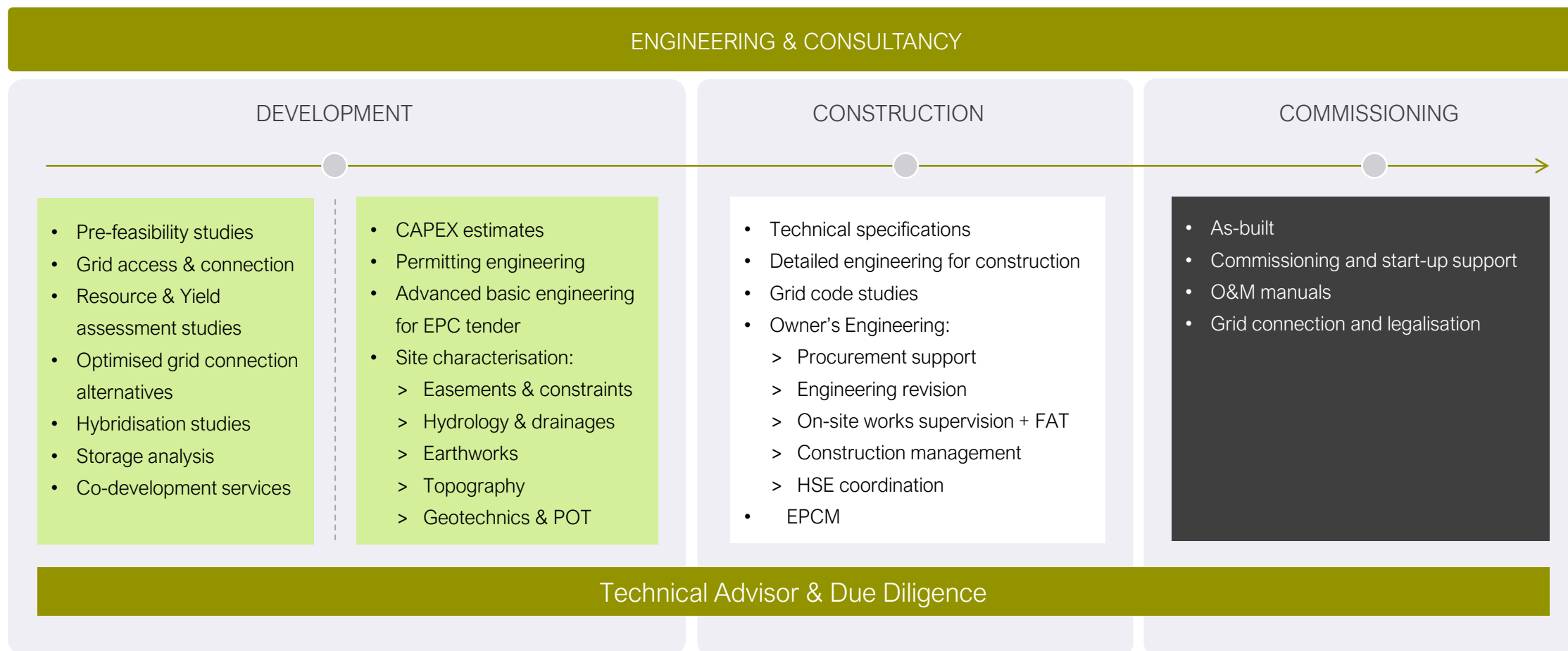


Windpeshi Wind Farm 200 MW
(Colombia)

03.

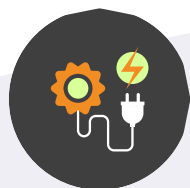
**Solutions adapted to
your needs**

360° service: engineering and technical advisory **throughout the entire project lifecycle**, from inception until commissioning.



Development

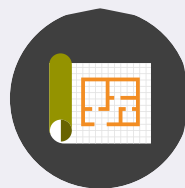
Strategic Partner from origination until RTB, with a clear focus towards project optimisation and the careful observation of local codes and regulation to speed up the consenting process.



More than

10,000 MW

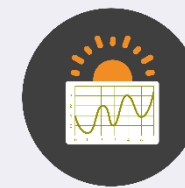
Grid access and connection requests in Spain.



More than

200

Permitting projects in the past 3 years in Spain, Portugal, Italy, Brazil, Chile and Colombia.



More than

15,000 MW

Resource and Yield Assessment Studies.

Construction

During the construction stage, developers and EPC contractors engage with SÓLIDA in order to achieve the maximum HSEQ standards and cost control, and meet deadlines.

More than

8,000 MW

Detailed Engineering

- 105 projects
- 13 countries

More than

3,700 MW

Owner's Engineering

- 98 projects
- 9 countries

More than

2,000 MW

Site Works Supervision

- 41 projects
- 6 countries

Consultancy

We are **independent technical advisors** and risk detectors.
We pay attention to our clients' worries, perform in-depth risk analyses and provide bottomless drill-down capabilities.
We dive into the roots and potential mitigants of any risk, at will.

More than

48,000 MW

Technical Advisor

- 530 projects
- 15 countries

Technical Due Diligence

Lender's Technical Advisor

Independent Witness

Contracts Technical Support



Innovation

Technology is in our souls. We strive for continuous improvement. In every project, everyday. **Innovation**, **Digitisation** and **Process Automation** are part of our culture.

R&D Team

Our R&D Team has mastered Python, Java and C# languages and operates with SCRUM methodology. We permanently develop new tools which provide technological solutions to optimise our engineering processes and design plants more efficiently.



Innovation

Success cases

Innovation by definition:

the software tools we develop provide tangible solutions to complex problems that had not yet been resolved.



PV Trackers Optimisation

A tool specifically developed for the optimisation of PV layouts with trackers at complex topographic sites.



Earthworks

Cut & Fill quantities are minimised with this tool, which is especially useful at complex sites with wavy topographies.



Ray Tracing

Proprietary ray tracing model originally conceived for Central Tower Receiver plants. Also used for PV.



CSP Management

Business Intelligence software implemented at operating CSP plants.



PV & CSP Hybridisation

Proprietary model for hybrid PV & CSP plants.



Shadow Flicker

Proprietary software for Shadow Flicker calculation in Wind Farms.



CSP Yield Calculation

Proprietary model for the detailed simulation of CSP plants (parabolic through and central tower technologies).



Operational Strategies

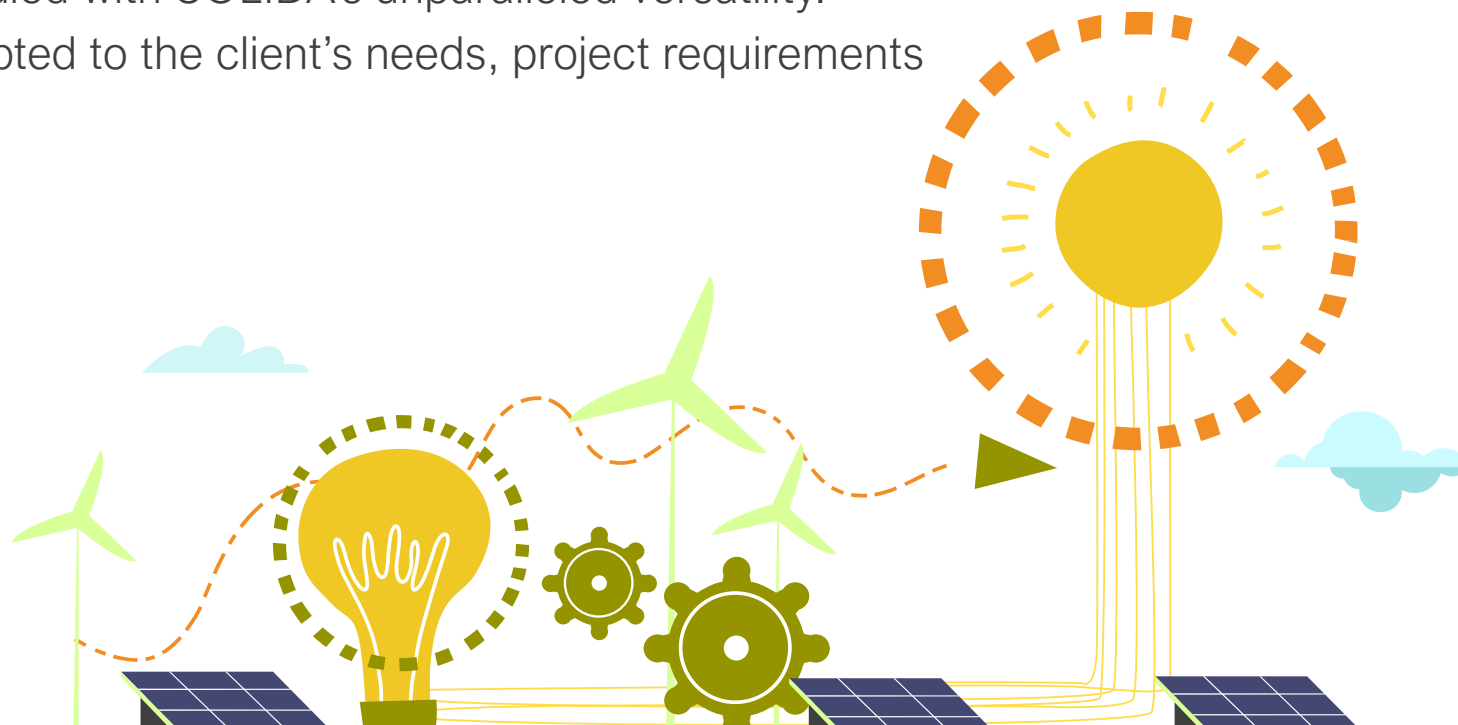
Proprietary model for the implementation of tailor-made dispatch strategies in order to capture best market pricing when storage is available.

04.

A joint project: *case studies*

We have overcome great challenges for over 15 years in more than 50 countries, with **renewables at the core of the business**, in markets with a unique nature.

Utilities, EPC contractors, investments funds and financial institutions, bespoke requirements permanently handled with SOLIDA's unparalleled versatility. Our **specific solutions** are always adapted to the client's needs, project requirements and country regulations.



Key Projects

Detailed Engineering



PV Francisco Pizarro

590 MW

Spain



PV Cluster Fuentes

281 MW

Spain



PV Futura

852 MW

Brazil



PV Guaimbê

150 MW

Brazil



HV Soco

65 MVA 34,5/138 kV

Dominican Rep.



PV Finis Terrae II-III

138 MW

Chile



PV El Águila II

42 MW

Chile



WF Aventura II-V

110 MW

Brazil



WF Monte Verde I-V

319 MW

Brazil



WF Windpeshi

200 MW

Colombia



Key Projects

Owner's Engineering



PV Núñez de Balboa
500 MW
Spain



PV Cluster Cádiz
234 MW
Spain



PV Luzia
150 MW
Brazil



PV Santa Isabel
190 MW
Chile



PV Portfolio x28
PMGD 150 MW
Chile



HV Node Campanario
780 MVA 400 kV
Spain



**HV Villanueva de los
Escuderos** 400 kV
Spain



WF Matafongo
34 MW
Dominican Rep.



WF Guzmancito
58 MW
Dominican Rep.



PV Broadsound
385 MW
Australia



Key Projects

Technical Due Diligence



Portfolio Ignis x152

14,000 MW

Europe & America



Portfolio Total x48

1,783 MW

Spain



PV Portfolio x22

1,500 MW

Spain



PV Fermesolar

480 MW

Portugal



Portfolio FCC

564 MW

Spain & Portugal



PV Laberinto

146 MW

Chile



PV Mumurkah & Shepparton

196 MW

Australia



PV Azúa & Mata de Palma 90 MW

Dominican Rep.



WF Ventos de Santo Antônio 216 MW

Brazil



WF Ventos de Tacaratú 365 MW

Brazil



Key Projects

BESS



PV Francisco Pizarro

60.5 MW / 53.7 MWh

Spain



BESS Land 16 Plugia

984 MWh

Italy



PV + WF Heolios

84 MW / 558 MWh

Chile



BESS Uta-18

984 MWh

Italy



BESS 354 Udine

372 MWh

Italy



PV Campo Arañuelo

3 MW / 8.8 MWh

Spain



PV Élec. Ouest Guyanais

11.1 MW / 52.6 MWh

French Guiana



PV Campanario I

3.7 MW / 7.4 MWh

Spain



PV Valdezorita

5 MW / 8.8 MWh

Spain



PV Magnolia

5.8 MW / 11.6 MWh

Spain



Spain

Nº Projects

670

Total MW

44,3392

Lines KM

1,693 km

Nº of substations

159



Nuñez de Balboa
Owner's Engineering
500 MW (Badajoz)
IBERDROLA



Nudo Campanario
Owner's Engineering
780 MVA (Albacete)
CB CAMPANARIO



Francisco Pizarro
Detailed Engineering
590 MW (Cáceres)
IBERDROLA



Portfolio Gamesa
Tehcnical Due Diligence
1,932 MW (Spain)
CONFIDENTIAL



Cluster As Pontes
Permitting Engineering
318 MW (Coruña)
ARBA



Portugal

Nº Projects

33

Total MW

3,434

PV MW

2,887

Wind MW

546



Cerca

Permitting Engineering
142 MW (Casais da Lagoa)
EDPR



Cluster Alco

Detailed Engineering
188 MW (Alcoutim)
JAYME DA COSTA



Santiago do Cacem

Basic Engineering
1241 MW (Santiago do Cacém)
IBERDROLA



Portfolio Portugal

Technical Advisor
546 MW (Portugal)
FCC Energía



Fermesolar

Technical Due Diligence
480 MW (Mertola)
TOTAL



Italy

N° Projects

37

Total MW

1.131

Development Phase

926 MW

Construction Phase

205 MW



Montalto di Castro

Eng. for EPC tender + BESS
48 MW (Viterbo)
MAETEL



Montefiascone

Owner's Engineering
7 MW (Lazio)
IBERDROLA



Sardinia Portfolio x4

Technical Due Diligence
150 MW (Sardinia)
NATURGY



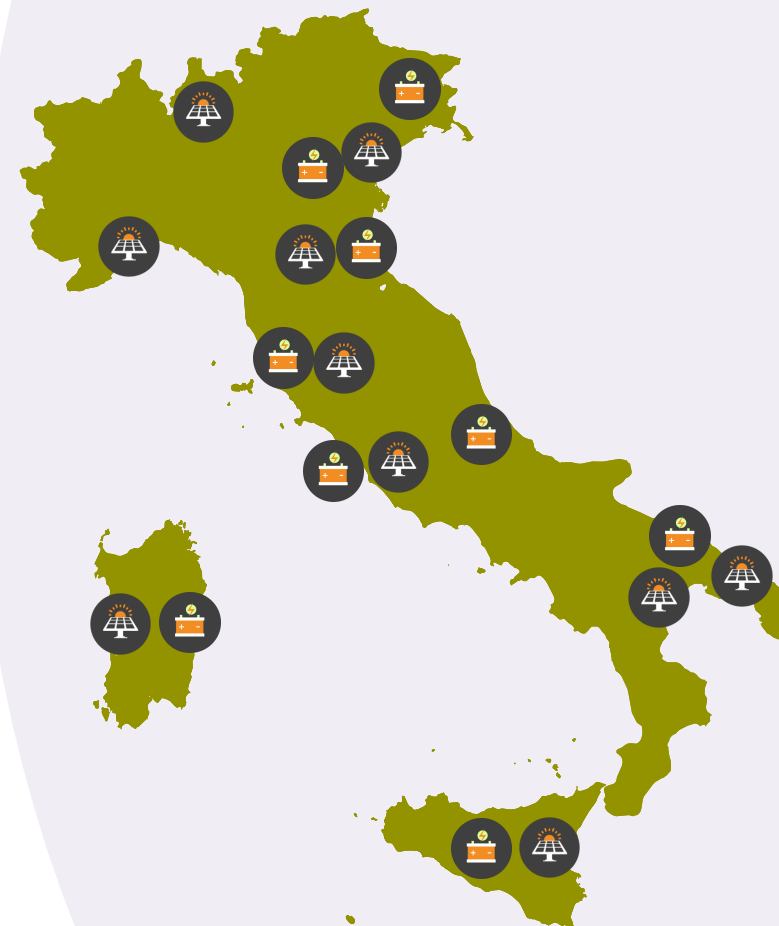
BESS Uta-18

Basic Eng. for permitting
984 MWh (Cagliari)
CHELION



Bando D'Argenta

Basic Engineering
92,7 MW (Ferrara)
ENFINITY



Portfolio Ignis



Technical Due Diligence
Europe & America

14,000 MW

- **Technology:** Photovoltaics, Wind, Combined Cycle and Hydrogen
- **Nº of projects:** 152 projects in Spain, Italy, USA and Peru
- **Investment:** 625 MM euros
- **Execution year:** 2021

Client



VORTEXENERGY



Scope

- Red flag analysis and risks pre-screening.
- Full Technical Due Diligence:
 - > Site assessment.
 - > Technical configuration review.
 - > Yield assessment, CAPEX/OPEX estimates.
 - > Permitting status and RTB probability of success.
 - > EPC/O&M contracts review.
 - > Review of financial model inputs.
 - > Risk Matrix.

solida



PV Francisco Pizarro



Detailed & Owner's Engineering
Spain

590 MW

- **Configuration:** monofacial module / single-axis tracker / central inverter
- **Substation:** ST Pizarro 30/400 kV
- **Transmission line:** Overhead 400 kV, 35 km
- **Execution year:** 2020-2022

Client



Scope

- Basic engineering optimisation.
- Site studies assessment.
- Detailed engineering for construction.
 - > Civil-Mechanical.
 - > Electrical.
 - > Communications.
- Grid code electrical studies.
- Technical assistance during construction.
- On-site management of contractors.



HV Campanario Node

Permitting and Owner's Engineering
Spain

780 MVA

- **Type of project:** Grid connection infrastructure for renewables
- **Substation:** 132/400 kV
- **Transmission line:** 0,5 KM 400 KV
- **Execution year:** 2020-2021

Client



Scope

- Grid Connection Project (+750 MW Wind & PV).
- Executive Technical Project for Permitting.
- Technical support for transformer procurement (780 MVA).
- EPC contract management.
- Substation and line Detailed Engineering review.
- FAT tests Supervision.
- Quality, planning and certifications control.
- Project management.



WF Matafongo

EPCM
Dominican Republic



34 MW

- **Wind Turbines:** 17 WTG 2.0 MW
- **Location:** Dominican Republic
- **Substation:** 55 MVA 30/132 kV
- **Transmission line:** Overhead 132 kV, 10 km

Client

INVERAVANTE

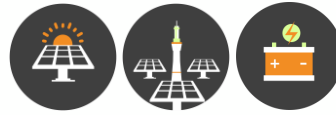


Scope

- Main contracts negotiation support:
 - > Civil works.
 - > MV and HV electrical installations.
 - > Substation.
 - > Wind turbines supply and assembly.
- Detailed engineering review.
- Construction supervision and commissioning.
- HSE coordination.
- Construction management.



Noor Midelt



Technical Advisor
Morocco

800 MW

- **Technology:** PV, CSP & Storage
- **Hybrid plant power:** 600 MW PV + 200 MW CSP
- **Location:** Morocco
- **Year of execution:** 2018

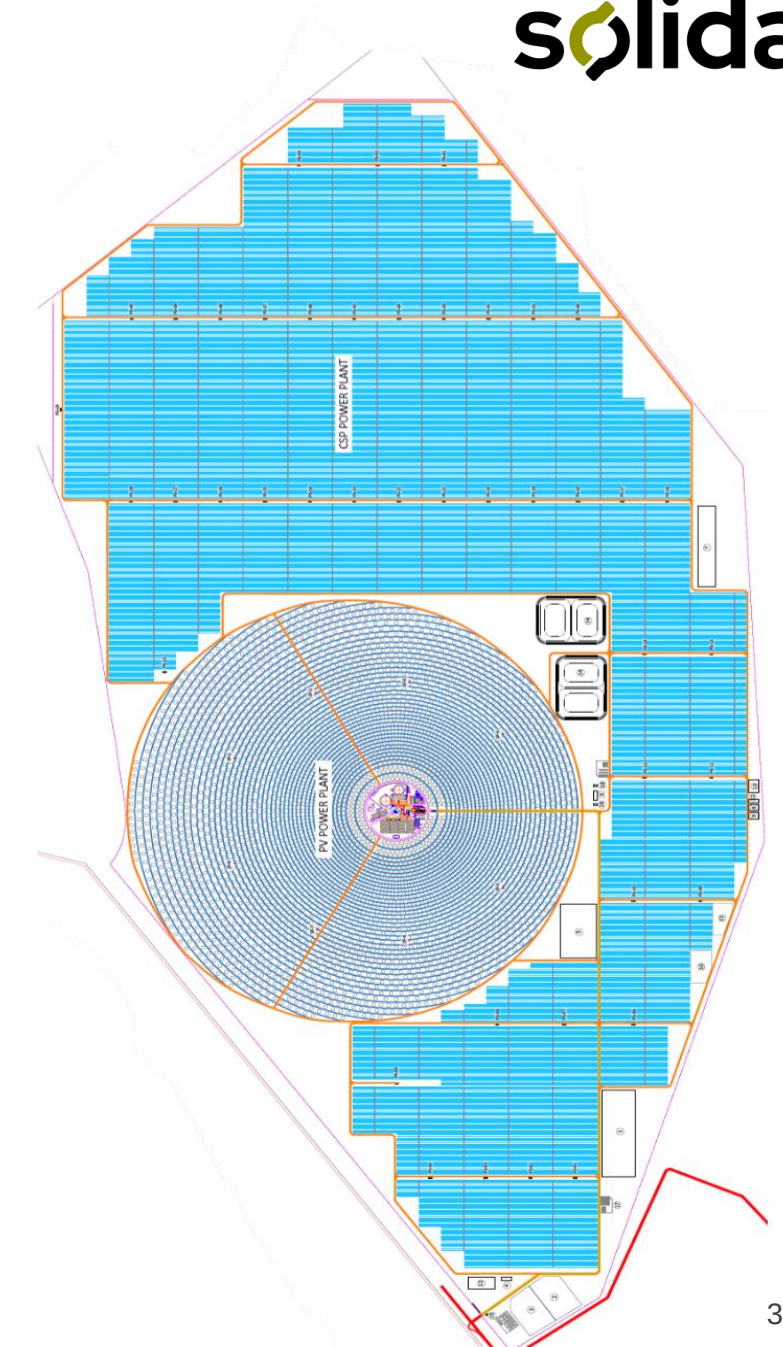
Client



Scope

Independent technical advisor for the world's largest CSP&PV hybrid plant.

- Pre-feasibility study with multiple configurations.
- CAPEX, OPEX and LCOE analysis.
- Basic engineering optimisation.
- Design of the electrical, civil, control and communications system.
- Yield assessment.
- Performance model design, integrating CSP & PV technologies.
- Technical support for EPC tender.





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