

Specialist in
Mission Critical
Buildings and Facilities

PQOC



www.pqc.es

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Thanks to our excellent team and the trust of our customers, who speak for us.

.....

PQC international technological reference. Betting on the integral vision and commitment from specialization.

Power
Quality
Control

01

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WE ARE PQC

Power

•••
We design buildings and facilities assuming all the necessary tasks in any phase of the Data Center life cycle.

.....
PQC, specialist in the diagnosis of causes of downtime, incorporates the solutions from design.
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A clear objective

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Our main objective is to ensure supplies to the facilities, avoiding any possible loss of sensitive data.

The consultancy, support and continuous advice in all those processes in which you may need a trusted ally.

With PQC, there is always a guarantee of **Availability, Capacity and Sizing**, which consolidates us as a benchmark in the MCFs sector..

Quality

PQC is related to the highest levels of certification where, in addition, it has been a pioneer.

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The work on Operational Sustainability seeks to tackle the greatest source of problems

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A secure future

.....

PQC will have a clear participation in the coming years where the designs will be more standardized and the focus will gradually shift towards operation and maintenance.

PQC is what its people are, and all of us are deeply committed to sustainability. Operational, social and environmental.

Control

We are an engineering / architecture consultant that provides technology and knowledge in projects related to Critical Environments.

When there is adequate project management, there is no room for cost increases, uncertainty, failure to meet deadlines or frustration.

An expert team

- A solvent and effective team, with the best valued professionals in the sector. With global knowledge of the entire life cycle of a Data Center. From the first steps of the consultancy, through the design phases, as in the execution and maintenance .
- The support of a team that has the highest certifications in the world of Data Center.
- A person responsible for your project, a friendly face and a quick response wherever and whenever you need it.
- The confidence of knowing that the PQC team has successfully captained some of the most applauded projects in Critical Environments.
- A travel companion strategically present in Europe and Latin America.

02

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SPECIALIZATION

We are committed to specialization



Garcerán Rojas
PRESIDENT



Jon Mikel López
GENERAL COORDINATION



David Díez
ENGINEERING



Ramón Medina
ENGINEERING



Ana Merino
ADMINISTRATION AND FINANCE



José Miguel Rojas
ENGINEERING



David Royo
ENGINEERING



Alberto Crespo
ENGINEERING



Paula Ortega
ENGINEERING



Demetrio Martín
ENGINEERING



Ernesto Fernandez
SALES MANAGER



Ramón Alquezar
ENGINEERING



Julián Plaza
ENGINEERING



Eloy Unda
ENGINEERING



Verónica Nicolás
ENGINEERING



Elías Sancho
ARCHITECTURE



David Pámpano
ENGINEERING



Juan José Castellanos
ENGINEERING



Maximiliano Segre
ENGINEERING



José Manuel Muñoz
ARCHITECTURE



Diego Pascual
ARCHITECTURE



Miguel Ángel Chávez
COUNTRY MANAGER
MÉXICO



Juan José Ayala
ENGINEERING



Amando Rojas
ENGINEERING



Roberto Barías
COUNTRY MANAGER
CHILE



Eduardo Quintana
ENGINEERING

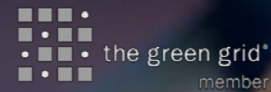


Patricio Infante
ENGINEERING



Ariel Guzmán
ENGINEERING





Our continuous effort to always go one step ahead, makes our team one of the most complete and specialized, and therefore our projects are of the highest order and thus are accredited.

Our experience allows us to anticipate future problems.

The benefits of our specialization.

- We guarantee that your starting specifications and marked design topologies are accurately met.
- We anticipate future problems by having knowledge about why “events” happen in the Data Centers.
- We facilitate the decision making of those responsible for ICT infrastructure.
- We apply best practices. With smaller investments, better facilities can be made.
- We offer our customers the experience of PQC in hundreds of critical installations analyzed.
- We provide the most powerful tools in the market.



International
Referents
In our specialty.

more than
3,000
professionals
They have
participated in
our courses.

We impart varied and
recognized Conferences
and Technical Meetings
at international level.

The training activities of PQC are in the
“in company” mode. The training needs
of the Systems, Maintenance and / or
Infrastructure personnel are determined
and from these we present a training
proposal.

In recent years, more than **3,000**
professionals responsible for critical
facilities have participated in PQC training
courses.



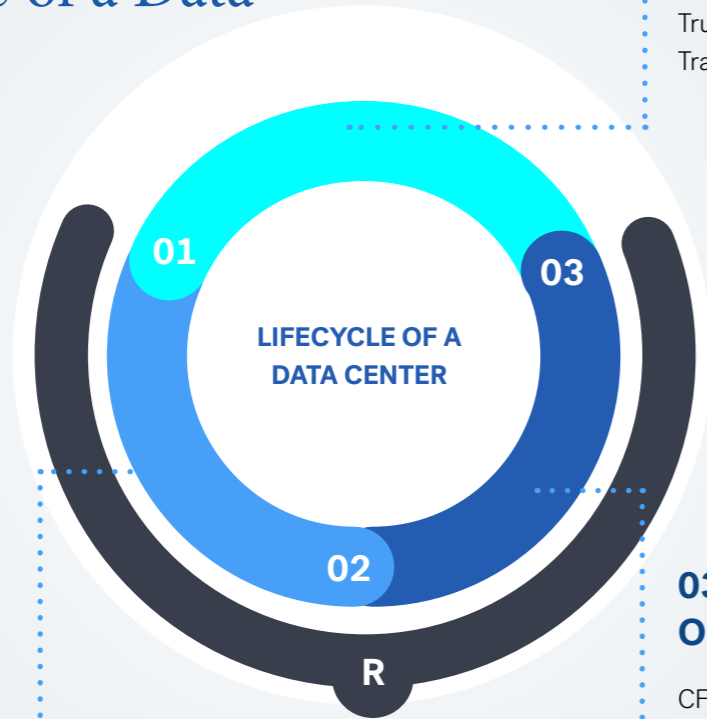
EXPERTISE IN

03

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SERVICES

Services throughout the life cycle of a Data Center



01 Design

- Conceptual Design
- Basic Project
- Execution Project
- Trust Consulting(CTC)
- Training

03 Operation

- CFD (Computational Fluid Dynamics)
- Assessment
- Feasibility Studies
- Specific Studies
- Energy Efficiency
- Trainaud
- Operation and maintenance

02 Execution

- PMO
- Construction Management
- ertification
- Commissioning

Reengineering

- Conceptual Design
- Basic Project
- Execution Project
- Reengineering

01 Design

Conceptual design

Establishment of the general design lines from the OPR (customer requirements). Definition of the basic characteristics, the design topologies and the layout of the basic components.

Basic Project

Development of the project at the level necessary to start the licensing process and also have an initial orientation budget.

Execution Project

Development of the technical file including the Report, Calculations, Plans, Specification and Budget.

CTC

Trust Technology Consulting, with the accompaniment to the client in all phases of his project, from the initial analysis of the business to the start-up and operation of the system, through the review and supervision of all intermediate stages.

Training

Courses in im-company format or in open model, aimed at professionals in the sector, in which the main topics associated with the stages of design and operation of a mission critical environment are taught.

02

Execution

PMO

Project management office including technical support office, as a complement to the construction management

Construction management

Development of optional management tasks for use, with the responsibilities inherent to that specific function.

Certification

Customer support in certification processes of the main international organizations, such as Uptime Institute (design, facility and operational sustainability), Icrea, LEED, CEEDA, etc. Completion of projects and adaptation work for reconversion of facilities in order to be certified according to the aforementioned standards.

Commissioning

Completion of the 5 commissioning levels, to which the initial design review (level 0) is added when the service is contracted from the beginning of the project. It is a technical commission in which the commissioning authority is actively involved in the project, to which it brings its experience and level of expertise.

R

R

Reengineering

Reengineering

Realization of remodeling projects in infrastructures in use (architecture and electromechanics) to improve their availability and adapt them to new needs.

Operation

03

CFD

Establishment of the general design lines from the OPR (customer requirements). Definition of the basic characteristics, the design topologies and the layout of the basic components.

Assessment

Detailed analysis of electromechanical mission critical installations (including associated architectural aspects) with identification of risk points, design topologies, operational and efficiency status, etc. Determination of corrective measures.

Feasibility Studies

Analysis of the viability (feasibility) of reengineering processes derived from assessment of mission critical facilities.

Specific studies

Analysis and solution of specific problems that affect the normal operation of the facilities. Untimely shots of protections, interferences, electrical noise, high weather consumptions, hot spots, low yields, alarm performance, etc.

Energy Efficiency

Studies aimed at improving energy efficiency in data centers and other facilities, both mission critical and general use. Prescription of corrective measures and calculation of ROI.

Trainaud

Joint performance of training actions and an assessment of the installation to be carried out by the attendees themselves, depending on the different issues that are raised throughout the conference.

Operation and maintenance

Specific consulting on maintenance engineering and actions related to the operation of mission-critical environments. Application of operational sustainability criteria.

R



04

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CUSTOMERS

from Bilbao...

Throughout our trajectory we have seen how the circle of companies, administrations and entities that gave their trust to PQC, grew when dealing with projects related to highly critical issues for their activity.



Bilbao.
Headquarters.

Alameda Mazarredo, 65
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...to the world.



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Presents in
9 countries

.....

.....

Mor than
1,800
jobs

.....

.....

International level

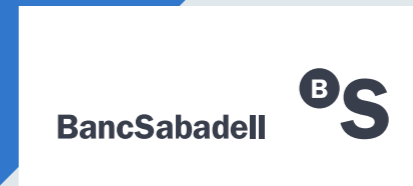
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It has been **that trajectory** that **has made us a benchmark among the engineering of the sector** and that has opened the doors for us to assume a leading role in many of the most ambitious projects that are being addressed..

PQC is immersed in an **internationalization process** driven by the needs of our clients implanted abroad and, currently, we are participating in projects in Mexico, Argentina, Chile, Peru, Colombia, Portugal.... etc, among other countries.

04 CUSTOMERS

Several of the most Major companies in the world are PQC customers.



04 CUSTOMERS

Other clients for whom we have developed our services in recent years.

- ACCIONA
- ACENS
- ACITURRI
- AEMA
- AENA
- AEROPUERTO DE MENORCA
- ANDORRA TELECOM
- ARSMAGNA
- ATM
- BERLYS
- CARREFOUR
- CBRE
- CEN
- CINFA
- COBRA
- COLT
- CTB
- DIPUTACIÓN DE ZAMORA
- DISNEY
- EJIE
- ERTZANTZA ERANDIO
- EUSKAL FORGING
- FBIT
- FERROSER
- FIDE PARTNERS
- FINSA

- FNMT
- GIROA
- GISS
- GOBIERNO VASCO
- GRIFOLS
- HOSPITAL DE URDULIZ
- IDAR
- IFEMA
- INELSA
- ISG
- KAYABA
- LANTIK
- LILLY
- MÁS MOVIL
- METRO BILBAO
- NABIAX
- NOS
- ORANGE
- REE
- RENFE
- SANITAS
- SARENET
- SATEC
- SEGIPSA
- SGAD
- SODEXO

- SORIA INVEST
- SORIA NATURAL
- SUKIA-VIVIENDAS BOLUETA
- SURVEY BCN
- THYSSENKRUPP
- TOWNET
- UIB



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