

SNEF Power Services

Leading SNEF Group Nuclear Sector

About SNEF Group

Since its creation in **1905**, the SNEF Group has always inscribed its strategy in a double logic of proximity and mastery of know-how. Over the years, the profession has been transformed, enriched, our locations multiplied. Always with a simple objective of offering services with high added value to our customers.

Born from the Maritime sector, the SNEF Group has retained the requirement and rigor to develop in the Sectors of Industry, Energy and Infrastructure, then in the Tertiary sector.



1,6

Billion euros
turnover



13 500

Employees



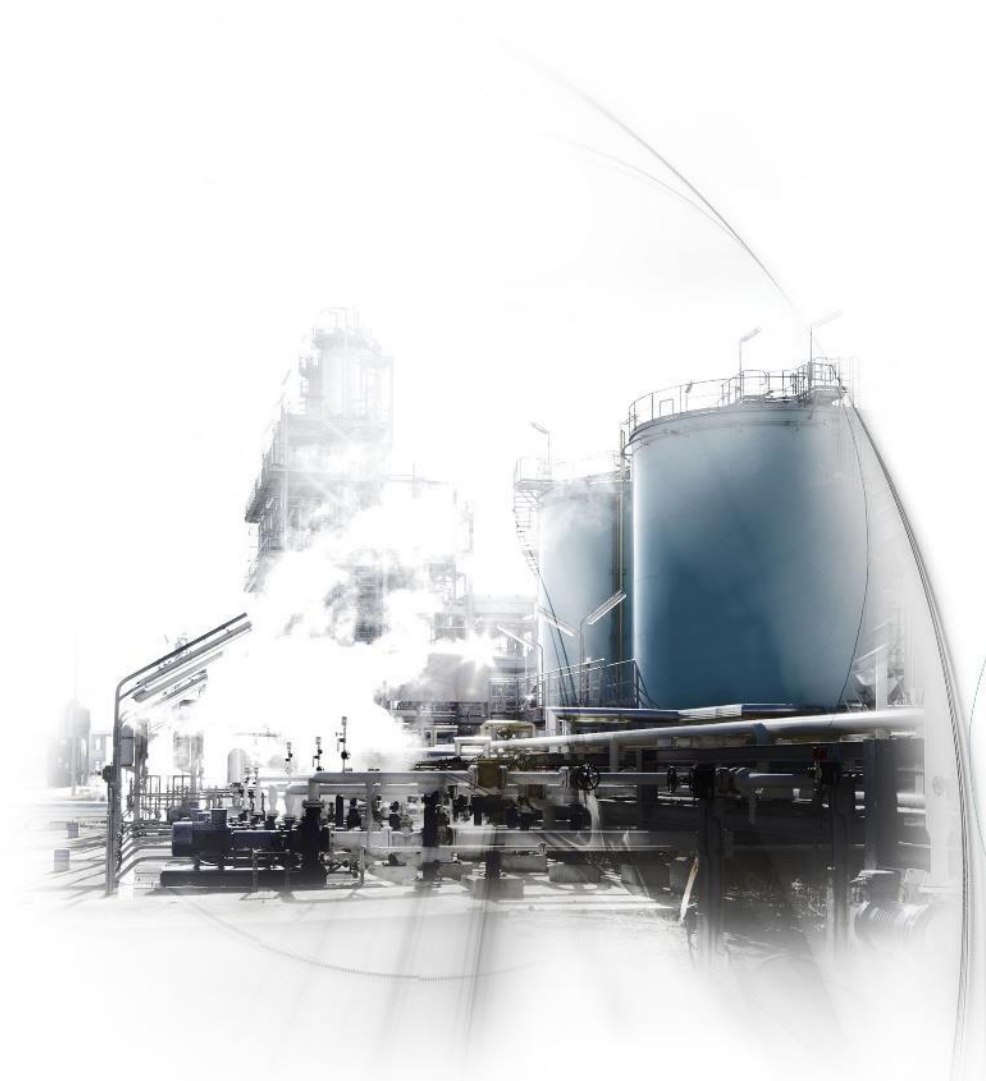
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Countries



SNEF Group **SECTORS**

A specific know-how



Maritime



Industry



Nuclear



Infrastructure



A COMPANY OF GROUPE SNEF



A COMPANY OF GROUPE SNEF



SNEF Nuclear sector



~2 000
Employees



€220 M
Turnover



Specialised in the electrical trades, instrumentation, water and gas treatment, physical protection for the nuclear industry.

Subsidiary of SNEF Power Services:



Industrial mechanics maintenance:
Piping, Metalworking
Taps

Subsidiary of Fouré Lagadec:



Engineering,
Automation
& Consulting

Subsidiaries of EKIUM:

Switzerland	United Kingdom
Belgium	
Luxembourg	Uganda
AMIO	Tanzania
Spain	Brazil



Audio & Video Systems



Industrial IT & Supervision



IoT & ITS **NIOS**



Predictive Maintenance

Industry 4.0 **sequor** INDUSTRIAL SOFTWARE

IT architect & Computer integrator



SNEF Nuclear Sector History



SNEF S.A.

2011

2013

2016

2017

2018

2020

2021

2022



Creation
SNEF Nucleaire



Acquisition EKIUM
Creation SNEF Lab



Acquisition
FOURÉ LAGADEC



Creating
SNEF Power Services
Creating
the nuclear sector



Acquisition ACM
IMSAT Integration
in the nuclear industry

Electrical plant design and
systems engineering
CEA RJH

Works contracts Electrical
installations
EDF FLA3

Industrial Info
I&C
Fire detection

Project management
multisite
EDF framework
contracts
IEG Studies
IEG Works Lot 1
IES

Maintenance
multi-technical
ORANO LA HAGUE

Design of nuclear
facilities
and diesel
EDF - PIAT
Diesel HPC, FLA3

Preventive
maintenance
IoT
Cybersecurity

Mechanical maintenance
Boiler production
Taps
EDF framework contract

Water and gas treatment
REN/RES
CTA
CTE...
Site Protection

Qualification TES

Design
Manufacturing
NPE
Complex welding

ISO 19443 certification
Qualification for EDG EPR2

Renewal La Hague
Maintenance
(integrating predictive
maintenance)

1st Framework
contract with EDF

Renewal
EDF framework contract
Instrumentation

< 100 E

~ 2000 E

Skills

Integrator

Design – Execution - Maintenance

Electricity - HV

Power supply/distribution – Electrical works- Sensitive electrical works

Electricity - LV

Fire detection- Communication (telephony/intercom/sound system)

Sites physical protections

Detection systems- access controls- physical barrier

Instrumentation & Control

Control command- Industrial computing– Supervision

Instrumentation

Sensors- Data processing- Radioprotection

Water treatment

Process – chemical risks

Rotating Machines

Pumps maintenance- motors

Civil Works

Crossings caulking

Control

Tightness crossings

Manufacturing

Electrical boxes

Control Room

Heat Exchangers

Water treatment processes



EPCC main references



RJH research reactor power plant

45 subsystems
Functional analysis
Design/Execution
Architecture
QRA definition
Qualifications Manager



Nuclear Sampling Systems, HPC

1,500 materials for one unit:
Glove boxes, exchangers, analyzers, valves, Instrumentation, Filters, Fans, Gas Dryer, Work benches, piping...

NNB
GenCo



ISIR/SIT Installation

EPR Flamanville
1 injection room
1 analysis room
Tanks, piping, instrumentation
Metal structures...



Flamanville EPR, 1 & 2 Enhanced Protection Zone

Perimeter intrusion protection
Detection system
Removal of doubt



CTE Installation

Belleville/Civaux
Design/manufacture/realization
Mechanics, Tanks, piping, pumps, instrumentation, control command



TB21 tender – Electrical Works in Tokamak Complex and Surrounding Buildings

Customer: Fusion For Energy (F4E)

Project: ITER

Site: Cadarache, France



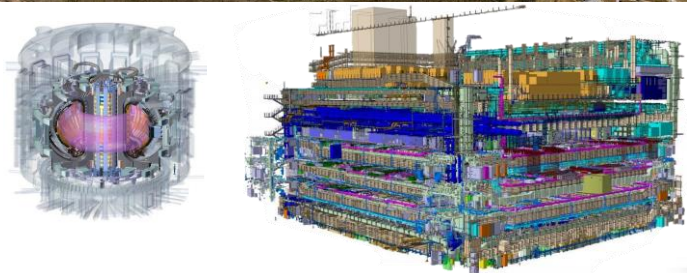
Consortium with Ferrovia **SNEF** **ferrovial**
POWER SERVICES

- Multiple contracts awarded on ITER
- Civil works in conventional buildings

FIDIC Framework Contract

Reopening of competition on specific contracts (Task Orders)

FWC awarding	Bid amount (Public information)	Contract duration
End November 2022	117 M€	5 years (2023-2027)



Scope of Work

- Electrical systems (luminaries, power outlets, surge protection)
- Power supply (cabinets, cables, etc.)
- Electrical distribution (junction box, switches, etc.)
- Instrumentation & Control (sensors, logic interfaces, etc.)
- Fire, gas & seismic detection
- Load centers

Services to provide

- Execution Design
- Procurement/Supply/Manufacturing (75%)
- Qualification tests (strategy out of scope)
- Installation & Commissioning in NNB only

Subcontractor Ekium

- Execution Design
- I&C programming/implementation



Our assets

- Ferrovia has a long track record on ITER (5 contracts awarded, including 3 with electrical scope)
- Ekium involved in some contracts
- Good quality of technical offer acknowledged by F4E
- Local SNEF agency resources





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