

拥有18年提供核电技术顾问和专家的经验，法国科睿集团来到了中国- **中国科睿**，为中国核电站和核电项目提供技术支持。

强大的后方支持让我们能够在中国以本地或外派的形式提供高级工程师和专家。

目前，科睿集团有60个工程师，其中一半是有20年以上核电经验的专家。



科睿公司获得 ISO 9001认证.

### 科睿集团

科睿集团于2000年在巴黎注册成立。科睿集团成立了几个子公司来支持我们的客户和他们在不同地点的核电项目。

2011年，科睿集团在**马赛**成立了子公司。

自2009年，科睿集团已经开始在中国台山EPR项目工作，2014年**中国科睿核工程有限公司**在香港注册成立，跟踪公司的中国项目。

2015年，**科睿能源技术服务（深圳）有限公司**在深圳注册成立。

面向英国新的核电项目，2017年**科睿英国有限公司**在伦敦注册成立。

### KURY GROUPE 的分布:



- ▶ PARIS 巴黎
- ▶ MARSEILLE 马赛
- ▶ HONG KONG 香港
- ▶ SHENZHEN 深圳
- ▶ LONDON 伦敦

### 我们的主要客户

科睿集团主要的客户是：法国电力公司 (CNEN, CIPN, CNEPE, SEPTEN, ...), 法国核安全局，法国核安全局的技术部门 (IRSN)，法国阿海珐公司， TNP JVC。

从2011年开始科睿已经签署了两个长期框架合同，来支持法国客户的58台在运机组上的工程任务。公司的马赛分公司主要负责以上合同工作。

在中国，科睿能源公司已经在中广核的电商平台注册并成为会员，同时与台山核电公司直接签署了服务合同。

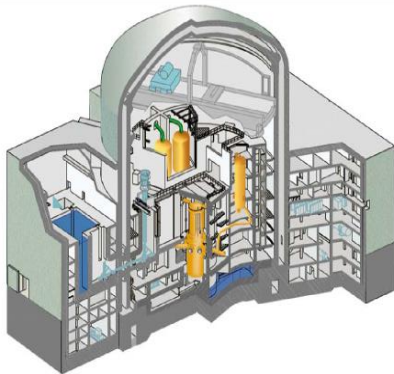
科睿 的核心业务有2个领域。

#### 新项目的的设计:

- 系统设计
- 核电站正常和事故操作规程
- 核安全执照/安全分析

#### 在运核电站的维护:

- 事故危害管理（火灾， 抗震...）
- 新标准的采用
- 设计变更管理（设计， 影响分析， 解释证明...）
- 跟踪供应商（审查和核准供应商的建议，跟踪合同执行情况）



## 科睿主要参与的项目

- 法国在运核电站的工程设计(900MW, 1300MW, N4, CPR1000, REP, M310)
- 台山EPR 系统设计, 包括流体系统 和通风, 电气和仪控, 以及EPR的核安全研究
- 英国HPC项目的电气和机械系统设计
- 新反应堆的设计: ASTRID, EPR NM反应堆

## 安全和操作流程

- 升版操作规程
- 安全概率分析
- 实验和操作规程
- 事故危害管理
- 偶然和意外事故操作规程 (EOP)
- 变更管理
- 新标准的采用
- 机械、热工、液压研究 (定尺)
- 系统设计手册



## 电气和仪控

- 电气设计
- 设计变更和改进
- 失电的研究支持和风险分析
- 初步实验, 程序确认
- 工具开发与应用 (TEC4, PDMS, DFE/DFL, Gestec...)
- 布置设计 (PDMS, Naviswork)

## 我们的优势



**期待您的联系, 让我们为您提供满意的技术支持!**



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Thanks to its 18 years of experience on nuclear power technology, **KURY GROUPE is an expert in** providing technical assistance on Chinese nuclear and energy projects through **KURY ENERGY**.

Our **strong back office**, based in France and composed of **60 engineers**, can be used for supplying senior engineers and experts. Currently, half of the engineers in **KURY ENERGY** have more than 20 years of experience in the nuclear field.

**KURY GROUPE** is certified ISO 9001 since 2003, to ensure quality standard to its customers.



## KURY GROUPE

**KURY GROUPE** was opened in Paris in 2000 and has several agencies to support our clients and their nuclear projects in different locations.

In 2011, the agency in Marseille was created.

Since 2009, **KURY GROUPE** has been working in China for Taishan EPR Project, and **KURY CHINA** was opened in 2014 in Hong-Kong to follow the projects in China. In 2015, **KURY ENERGY** opened in Shenzhen.

**KURY UK** was registered in London, in 2017, to answer the needs on UK projects.

## OUR OFFICES:



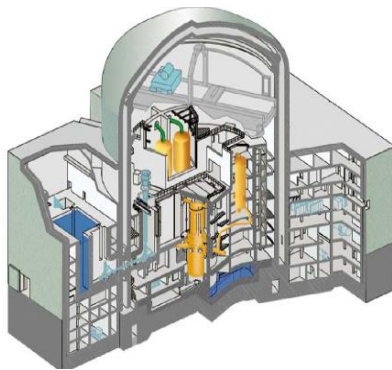
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## OUR MAIN CLIENTS

The Main clients of **KURY GROUPE** are, among others, EDF (CNEN, CIPN, CNEPE, SEPTEN, ...), IRSN (French Safety Authority technical support), Sofinel, AREVA, export projects companies and Chinese NPPs & nuclear projects.

Since 2011, **two final and long term frameworks** have been signed, enabling us to support our regular French clients on engineering missions.

In China, **KURY ENERGY** is registered as a member of CGN's Electronic Commerce Platform and has direct contracts with TNPJVC for Taishan EPR.



**KURY's** core business is divided in two fields:

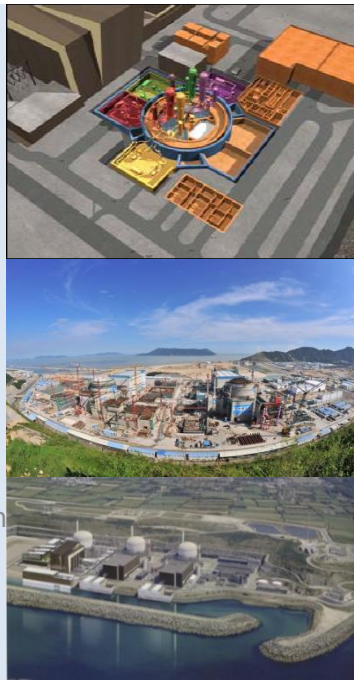
- **Design on new energy projects:**
  - Systems design
  - Normal and emergency procedure establishment
  - Safety licensing and analysis
- **Maintenance on the current fleet:**
  - Managing of hazards (ex: Hydrogen risk, fire...)
  - New standards adaptation
  - Impact analysis of modification batches (design, impact analysis, demonstrations)
  - Following of the supplier (review and validation of the supplier proposal, follow up of the contract)

### KURY'S MAIN ACHIEVEMENTS

- Engineering for the French fleet in operation : 900MW, 1300MW, N4
- Design of the systems and safety studies on Taishan EPR, in China
- Design of the electrical and mechanical systems on HPC project, in UK
- Basic design of new Reactors (ASTRID, EPR NM...)

### Safety and Operating process

- Updates of the operation procedures
- Safety probabilistic studies
- Management of hazards : fire, seismic risk etc
- Incidental and accidental operating rules (EOP) Modifications
- Test and operating procedures
- New standards adaptation
- Mechanical / Thermal / Hydraulic studies (sizing)
- System Design Manual



### Electricity and Control-Command

- Electrical design
- Design modifications and improvements
- Loss of electrical power supply support studies and risk analysis
- Preliminary tests, validation procedures
- Tools development and use (TEC4, PDMS, DFE/DFL, Gestec, EPR simulator)
- Layout studies (PDMS, Naviswork)

Besides our core business, we also have expertise in disciplines of other energy fields, such as HVAC, Valves, Waste treatment, general I&C, mechanical engineering and thermo-fluid, piping, plant and project management, , automation, commissioning and start-up...

### OUR STRENGTHS



**Flexibility**



**Expertise**



**Experience**



**Reactivity**

**Contact us to answer your technical challenges !**



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