



公司介绍

EDF: A European energy leader with a worldwide presence

The EDF (Electricité de France) Group was built in 1946. It is a public company (85% state, 15% listed in France) which integrates engineering, operation, transmission and distribution activities. Internationally developed, the EDF Group intends to reconcile performance and sustainable development in all the countries where it is present.

Key figures of EDF Group in 2008

124.8GW total installed capacity in Europe, including 98.4GW in France: λ nuclear 63.1GW (64,2 %), hydro 20.4GW (20,8 %), fossil-fired 14.8GW (15 %));

In France, EDF produced 483.9TWh per year, including 86.3% from nuclear; λ

€64.3 billion in revenues, €3.4 billion in net income; λ

38.1 million λ customers worldwide.

EDF in China

In 1984, EDF became the technology contractor of Daya Bay Nuclear Power Station construction; in 1994, the representative office was set up in Beijing for stepping up with China in nuclear, hydro, fossil-fired, transmission and distribution and training. In 2002, EDF Asia-Pacific Branch was set up in Beijing.

EDF's investment in companies operating coal-fired power plants with a total installed capacity of 3,720MW and equity installed capacity of 1,308MW makes it the leading foreign investor in electricity generation in China. EDF has also developed partnerships enabling it to take part in new technological developments in the field of nuclear, coal-fired, hydro and renew energy power facilities.

EDF Investments in China:

Laibin B Power Plant (2 X 360MW – EDF holds 100%),

Shandong Zhonghua Power Co.Ltd. (3000MW, EDF holds 19.6%),

EDF holds 20% of Beijing United Gas Engineering and Technology (BUGET).

Guangdong Taishan nuclear power project: On 26th November 2007, EDF has signed the agreement with China Guangdong Nuclear Power Holding Co. Ltd to establish a joint venture, to build and operate two third-generation EPR nuclear power units in Taishan, Guangdong province. On 10th August 2008, all agreements related to the JV creation have been finalized. The JV will be created after its approval by the Chinese Government.

法国电力集团公司

法国电力集团公司 (Electricité de France) 成立于 1946 年，于 2005 年 11 月成功在法国上市 (法国国有控股 87%)，是一家能源生产与经营上下游业务一体化的企业，涵盖发电、输电、配电、能源交易和能源销售等各个环节。集团依靠协同效应拓展国际业务，坚持合作并与所在国可持续发展方向一致。

法国电力集团 2008 年主要数据：欧洲发电装机容量为 1.248 亿千瓦，其中法国装机容量为 9840 万千瓦 (核电 6310 万千瓦，占 64.2%；水电 2040 万千瓦，占 20.8%；火电等非核电 1480 万千瓦，占 15%)

法国全年发电量为 4839 亿千瓦时，其中核电占 86.3%；营业额为 643 亿欧元，净利润为 34 亿欧元；在全球拥有 3810 万用户。

法国电力公司在中国：1984 年担任大亚湾核电站建设的技术总承包。1994 年在北京成立代表处，加强了与中国在核电、水电、火电、输配电及培训等方面的合作。2002 年在北京设立亚太地区总部。

投资包括：法国电力公司 90 年代在中国参与燃煤发电，发电机组的总装机容量达 3720 兆瓦，权益装机容量 1308 兆瓦，其中包括广西来宾 B 电厂 (2 X 36 万千瓦，法国电力公司 100%持股) 和山东中华发电有限公司 (300 万千瓦，法电占 19.6%的股份)。2009 年 11 月广东台山核电厂一期工程已获国务院批准，12 月商务部批准了建立合资合营公司。台山核电一期两台 EPR 核电机组，项目总装机 3500 兆瓦，其中法国电力集团公司占 30%，权益装机 1050 兆瓦。



EDF DAP CHINA DIVISION

Job Description

Department	R&D	Work Place	Beijing
Job Title	Carbon capture processes engineer	Report To	EDF Beijing R&D Centre Director
HR contact	hong.wang@edf.fr jose-carlos.valle-marcos@edf.fr	Starting Date	As soon as possible

YOUR MISSION

Your mission is to contribute to EDF R&D activities on carbon capture. You will be involved in EDF Carbon capture & Storage (CCS) projects and partnerships in China. You will also contribute to other fields for which process or chemical engineering skills are required.

YOUR JOB

You will work in a team located at EDF Beijing R&D Centre. You will also have contacts with other engineers working on this field, at EDF, in France and in China.

You will participate to meetings, conferences and technical visits that will be organised on CCS in China.

You will develop coal power plant and carbon capture processes models and work on their integration and on the optimisation of the performances of the assessed technologies.

You will participate to the technico-economic assessment of carbon capture processes and of their performances, considering their energy penalty, the cost of avoided CO₂ and the cost of electricity depending on the key process parameters.

You will also participate to conferences and meetings and develop a vision on the sector, the technologies under development and the ongoing projects on CCS.

Besides, it is possible that you contribute to other projects at EDF R&D Beijing, requiring chemical engineering skills in other fields as concentrated solar power, biomass power or flue gas cleaning.

REQUIRED SKILLS

- Engineering degree: chemical engineering (PhD not necessary but appreciated)
- Knowledge on power generation technologies from coal, flue gas treatment and/or CCS appreciated
- An academic or industrial experience abroad would be appreciated

LANGUAGE SKILLS

- Fluent Chinese, written & spoken
- English: both written & spoken is a must. French skill is nice to have.



EDF DAP CHINA DIVISION 法国电力集中国部

Job Description 职位描述

部门	法国电力集团北京研发中心	工作地点	北京
职务名称	碳捕集封存及工业过程工程师	行政归属于	研发中心总经理
人事部门联络	hong.wang@edf.fr , jose-carlos.valle-marcos@edf.fr	起始时间	2012 年 2 月

您的任务

参与法国电力集团 (EDF) 在中国碳捕集封存项目。同时参与及建立与中国同行的合作关系。您也有可能参与化工相关的工业过程项目。

工作范围

- 您将在EDF北京研发中心工作，与中国、法国同行建立联系。参与学术会议，技术参观。
- 开发建立煤电厂工艺模型及碳捕捉过程模型，应用于电厂性能评价，性能总体优化。
- 考虑工艺过程中的多种因素如能源损耗，减排获益及电能消耗，对碳捕捉进行技术经济论证、性能评估。
- 通过参加学术会议，技术论坛，对该领域形成综合认识包括新技术应用及正在实施的项目。
- 除此之外，您也有可能参与EDF北京研发中心的其它项目如太阳能、生物质能及烟气净化等。

所需职业技能

- 至少拥有化工硕士文凭，煤电基本知识，了解废气处理，烟气净化或碳捕捉技术基本知识
- 最好有研发或工业应用经历。有海外留学经历的人选优先考虑。

语言能力:

- 汉语：母语，有技术文章写作能力
- 英语：必备说与写能力
- 法语：最好有一定的法语应付能力，但不是必须