



IAEA TECHNICAL MEETING ON
**STRATEGIC SUPPLY CHAINS
AND NATIONAL INDUSTRIAL
INVOLVEMENT
FOR NUCLEAR POWER**

TECHNICAL TOUR

**Beaune (in Burgundy)
and Bugey NPP, France
4-8 November 2013**

Hosted by



n.triple.a

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The IAEA's role in promoting cooperation between countries with experience in nuclear energy and those wishing to develop its peaceful use is internationally recognized. France, whose commitment to a nuclear industry developed under the best possible safety, security and non-proliferation conditions has been continuously reiterated, is a long-standing supporter of IAEA activities for the promotion of nuclear power.

Thanks to its first and second-generation reactors, France has actually built-up considerable experience and know-how, and the French nuclear industry is now able to implement advanced concepts with tried and tested technology in the form of third-generation +, EPR and ATMEA reactors, as well as offering a comprehensive range of products and services for all sectors: reactors and fuel cycle (from uranium conversion to the disposal of radioactive waste).

Let me wish that this comprehensive technical tour of the French nuclear supply chain and localization, hosted in the beautiful region of Burgundy in collaboration with the IAEA, will provide an opportunity for all participants to share knowledge and experiences drawn from the French nuclear power programme.

Frédéric Journès

Governor for France to the IAEA

Director for Strategy and International Affairs of the Alternative Energies and Atomic Energy Commission (CEA)

NUCLEAR ENERGY

France



58 PWR REACTORS IN OPERATION

Installed capacity: 63,130 MWe

- 34 PWR (900 MWe / unit)
- 20 PWR (1,300 MWe / unit)
- 4 PWR (1,500 MWe / unit)

1 PWR EPR under construction in Flamanville

9 reactors under dismantling

1,874 reactor-years of experience

10 research reactors, 1 temporary shutdown for refurbishment, 2 under construction

Climate change: Due to its heavy investment in nuclear power, France is the smallest emitter of carbon dioxide among the seven most industrialized countries in the world.

THE NUCLEAR POWER INDUSTRY PLAYS A MAJOR ROLE IN FRANCE'S ECONOMY*

(data from 2009)

- 1 owner/operator/architect-engineer: EDF, the world's largest energy utility; operates the largest nuclear capacity in the world
- 1 reactor vendor: Areva, with 100 GW nuclear generation capacity built with Areva's participation, i.e. 26% of the global nuclear capacity currently in operation
- 125,000 direct jobs, as much as aeronautics, i.e. ~4% of all industrial jobs
- 410,000 total jobs generated in France by the nuclear power industry, i.e. 2% of total employment in the country
- €12.3 billion in direct value added, i.e. 0.71% of France's GDP, and €33.5 billion in total value added
- ~440 specialized companies among thousands of suppliers to the industry have developed specific nuclear know-how

* PricewaterhouseCoopers - *The Socio-Economic Impact of the Nuclear Industry in France*. PWC, 2011.

NUCLEAR POWER REACTORS

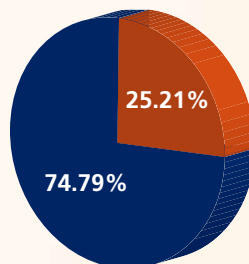
Under Construction	Operational	Permanent Shutdown
1	58	12

ANNUAL ELECTRICAL POWER GENERATION

Total Electricity Generation (including Nuclear)
541.4 TWh
(Net 2012)

Nuclear Electricity Generation
404.9 TWh
(Net 2012)

ELECTRICITY PRODUCTION SHARE IN 2012



■ Nuclear share
■ Non nuclear share

NUCLEAR ENERGY

The supply chain



Developing a nuclear power programme is a major undertaking

A major stakeholder for the successful construction and safe operation of a first nuclear power plant is a strong owner/operator with high level of expertise particularly in safety. A strong Owner/operator is responsible for the management of technical, contractual and commercial relationships with the nuclear regulator, vendors, suppliers, and other entities during the whole life cycle of the NPP.

A strategic supply chain and a national industrial involvement are major keys for success when developing a nuclear power programme. The nuclear industry and its suppliers are to comply with strict codes and standards, and rigorous quality programmes related to goods and services.

Through a strategic partnership with an experienced nuclear utility, a robust and long-term cooperation between the local owner/operator and an experienced nuclear utility is essential to reduce the industrial risk and improve the project financing, to ensure a strong safety culture and to support the development of a national supply chain.

Due to the importance of the topic and with France's important experience feedback, it became obvious for us to host this meeting. It is therefore our great pleasure and privilege to welcome you to France and Burgundy in particular, not only famous for its wine, mustard, cheeses and other gastronomic specialities, but most importantly for its nuclear supply chain.

From theory to reality: A picture is worth a thousand words

The IAEA Technical Meeting will address the industrial involvement major issues and will provide a platform for us to share our knowledge and experiences related to the implementation of an appropriate national/local industrial involvement in the supply chains for nuclear power programmes.

To illustrate the importance of building a national supply chain, the French hosts felt that it would be very meaningful to organize a technical tour. The tour will take you to facilities that are part of France's nuclear supply chains (manufacturing plants, training center, and a nuclear power plant in operation). The tour will include presentations on specific related topics such as certification, monitoring in factories, training, etc.

Most importantly, my French colleagues are not just proud to share with you their know-how and their experiences in working in other countries, but also will address what must be accomplished and how an embarking country can build its own nuclear industrial capabilities.

We wish you a fruitful seminar and an enjoyable trip to France.

Jean-Marc De Guio

EDF, Local host and co-chair of the IAEA Technical Meeting on Strategic Supply Chains and National Industrial Involvement for nuclear Power

TECHNICAL TOUR Itinerary



● **VALINOX NUCLEAIRE**
5 avenue du Maréchal Leclerc
21500 Montbard

● **AREVA**
Plant manufacturing heavy equipment
Zone Industrielle Portuaire Sud
Rue Louis Alphonse Poitevin
71380 Saint-Marcel

● **CETIC**
1 avenue de Verdun
71100 Chalon-Sur-Saône

● **MEETING VENUE BEAUNE**
Avenue Charles de Gaulle
21200 Beaune

● **BUGEY NUCLEAR POWER PLANT**
Site Nucleaire du Bugey
Route départementale 20
01150 Saint-Vulbas

TECHNICAL TOUR

PROGRAM AND SCHEDULE

MONDAY 4 NOVEMBER 2013, AFTERNOON

TOUR OF THE VALINOX NUCLEAIRE FACTORY IN MONTBARD

1:30 -2:30 PM	Transfer by coach from the meeting venue Hotel Mercure Centre in Beaune to Montbard
2:30 – 3:30 PM	Presentations <ul style="list-style-type: none">• Certification of suppliers: Yann Caquelot, EDF / Operational Technical Unit• Presentation and tour of the Valinox Nucléaire manufacturing facility: Gérard Kottmann, COO
3:30 – 4:30 PM	Tour of the Valinox Nucléaire manufacturing plant
4:30 – 4:40 PM	Transfer by coach from Valinox Nucléaire to the Montbard City Hall
4:40 – 5:45 PM	Cocktail/reception hosted by Valinox Nucléaire with the participation of the mayor of Montbard Ms. Christelle Silvestre
5:45 – 6:45 PM	Transfer by coach from the Montbard City Hall back to the Hotel Le Cèdre and the Hotel Mercure Centre in Beaune

Evening free

TUESDAY 5 NOVEMBER 2013, AFTERNOON

TOUR OF THE AREVA SAINT-MARCEL FACTORY IN CHALON-SUR-SAÔNE

2:15 – 2:45 PM	Transfer by coach from the meeting venue Hotel Mercure Centre in Beaune to Chalon-sur-Saône
2:45 – 3:15 PM	Passport control and security check
3:15 – 5:30 PM	Presentations <ul style="list-style-type: none">• Presentation of the Areva manufacturing facility: Philippe Clergue, Director, Equipment Business Unit, Areva• Monitoring in manufacturing facilities: Claude Boveyron, EDF Expertise and Inspection Department for Manufacturing and Operation (CEIDRE)• The added value of 3rd party services into the strategic supply chains: Didier Bienfait, Bureau Veritas; Patrick Géraud, Apave
	Tour of the factory
5:30– 6:00 PM	Transfer by coach from Chalon-sur-Saône to the Hotel Mercure Centre and the Hotel Le Cèdre in Beaune <i>Free time</i>
7:15 – 7:45 PM	Transfer by coach from the Hotel Mercure Centre and the Hotel Le Cèdre in Beaune to the Château Sainte Sabine

- 7:45 – 10:15 PM** Dinner hosted by EDF, Areva, CEA, and n.triple.a in the historical Château Sainte Sabine
Guest speaker: **Gérard Kottmann**, President, AIFEN
- 10:15 – 10:45 PM** Transfer by coach from the Château Sainte Sabine to the Hotel Le Cèdre and the Hotel Mercure Centre in Beaune

WEDNESDAY 6 NOVEMBER 2013
NO TECHNICAL TOUR

- 6:30 – 7:30 PM** Private tour of the Beaune medieval Hôtel-Dieu/Museum (short walking distance from hotels)

THURSDAY 7 NOVEMBER, AFTERNOON
TOUR OF THE CETIC TRAINING CENTRE IN CHALON-SUR-SAÔNE

Due to the large number of participants, the presentations will take place in the meeting venue Hotel Mercure Centre in Beaune.

- 11:45 AM – 12:45 PM** Presentations
- Training for the supply chains: **Claude Barbalat**, IZEN
 - Presentation of the CETIC: **Pierre-Alain Lhote**
- 12:45 – 2:00 PM** Buffet Lunch at the Hotel Mercure Centre
- 2:00 – 2:30 PM** Transfer by coach from the Hotel Mercure Centre to Chalon-sur-Saône
- 2:30 – 3:00 PM** Passport control and security check
- 3:00 – 4:30 PM** Tour of the CETIC
- 4:30 – 6:00 PM** Transfer by coach from Chalon-sur-Saône to the Hotel Golf du Gouverneur in Monthieux
- 7:30 – 9:30 PM** Dinner at the Hotel Golf du Gouverneur in Monthieux

FRIDAY 8 NOVEMBER 2013
TOUR OF THE BUGEY NUCLEAR POWER PLANT

- 8:15 – 9:00 AM** Transfer by coach from the Hotel Golf du Gouverneur in Monthieux to the Bugey Nuclear Power Plant in Saint-Vulbas
Session 4 of the IAEA TM on Strategic Supply Chains and National Industrial Involvement for Nuclear Power.
- 12:00 – 1:00 PM** Buffet lunch at the Bugey NPP
- 1:00 – 1:30 PM** Presentation of the Bugey NPP
Alain Litaudon, Plant Manager
- 1:30 – 2:00 PM** Passport control and security check
- 2:00 – 4:00 PM** Tour of the Bugey NPP turbine hall and control room
- 4:15 – 4:45 PM** Transfer from the Bugey NPP to the Lyon Saint-Exupéry airport and train station (with direct connections to downtown Lyon and Paris city centre)

The French hosts and organization team wish you a pleasant and safe trip home.

TECHNICAL TOUR

SPEAKERS

APAVE

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VALINOX NUCLEAIRE

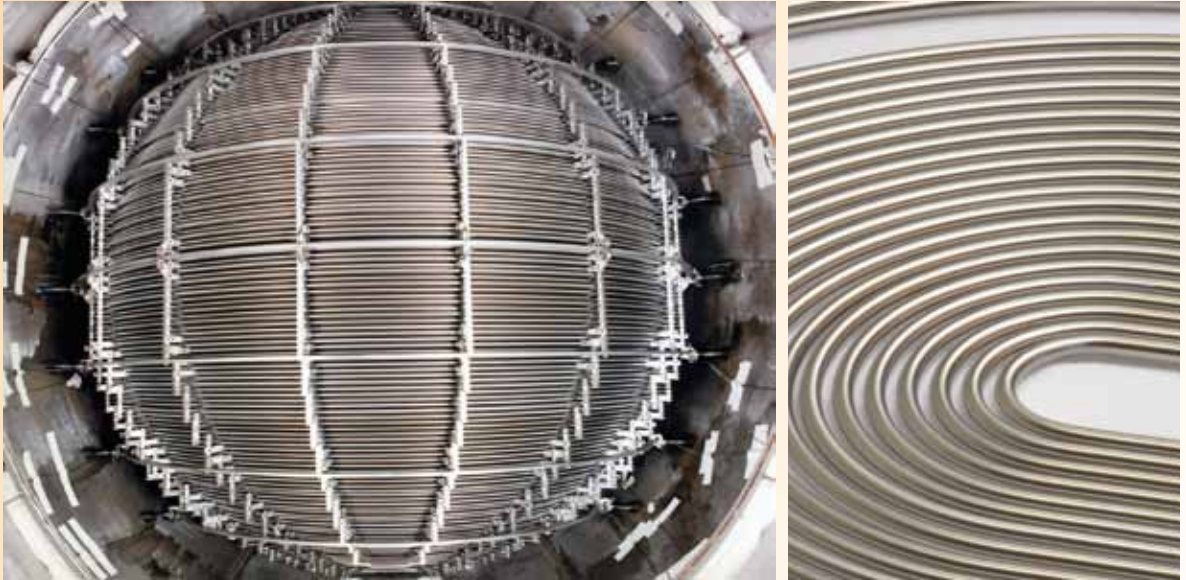
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SITES



VALINOX Nucléaire



Valinox Nucléaire is a wholly-owned subsidiary of VALLOUREC, worldwide leader in premium tubular solutions for industrial applications including for power stations.

Since 1974, the Montbard plant, located in the heart of the French nuclear industry in Burgundy, produces U-bent tubes for steam generators and various specialty tubular products made of stainless steels and nickel alloys for nuclear power stations of all technologies.

Valinox Nucléaire opened in 2011 a new plant in Montbard which multiplies its capacity by three and made a second step of expansion with **a new plant in China (Nansha, Guangzhou) opened in June 2013**.

Valinox Nucléaire is the undisputed worldwide leader on the steam generator tubes market and addresses all types of requirements including U-bending, square bending, shot peening, etc. and all types of certifications whether RCCM (French code), ASME (US code) or NNSA (Chinese Agreement).

CONTACTS:

Gérard Kottmann, Chief Operating Officer
Stéphane Jeanneteau, Deputy Chief Operating Officer
Bruno Gilg, Director of Sales

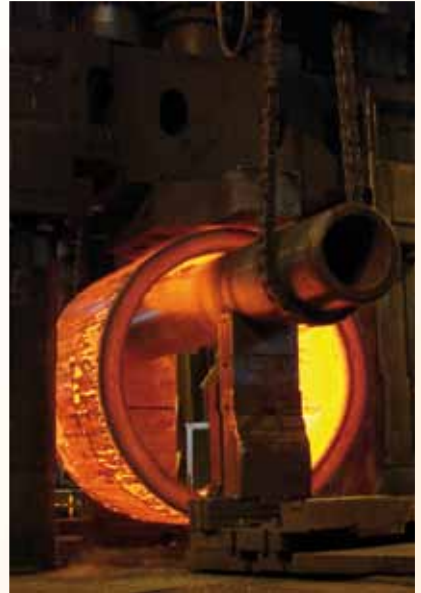
Tel: +33 3 80 89 82 82

Email address: bruno.gilg@vallourec.fr

Website: www.valinoxnucleaire.com

AREVA

St Marcel



Cradle of the French nuclear power industry, Burgundy is home to six complementary AREVA group entities. The experience, know-how and advanced technology of their industrial processes fulfill the growing needs of customers from all around the world. Dedicated to the manufacturing of heavy components for the reactor primary loop, AREVA's Saint Marcel plant benefits from the synergy of local industry and a unique concentration of talent.

Close to Saint Marcel, AREVA Creusot Forge forges the shells which are delivered to the plant to be assembled. The steam generators are then equipped with internal steam production parts developed with industrial partners specialized in high precision mechanics. To date, more than 650 components have been shipped by river from Saint Marcel factory.

Thanks to this experience, the men and women of AREVA group contribute daily to improving the safety of the Nuclear Power Plant fleet and of Generation III+ NPPs.

CONTACT:

Philippe Clergue, Equipment Business Unit Director

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Email address: philippe.clergue@areva.com

Website: www.areva.com

CETIC

Training Center



CETIC Training Center
(Centre d'Expérimentation et de validation
des Techniques d'Intervention sur Chaudière
nucléaires à eau pressurisée)

Co-founded by EDF and Areva, in 1986.

This exceptional 4,000 m² facility boasts
specialized resources, using full-scale models
for training including real-size components
of a pressurized water reactor (PWR) such as:

- Vessel
- Internal equipment
- Steam generators
- Fuel loading and transfer devices
- Pressurizer
- Coolant pump
- Reactor cavity
- Fuel pool

CETIC is also used for:

- Qualification of procedures and equipment
- Training for the replacement of steam
generators and other components
- Training for fuel loading and unloading

75,000 hours of work performed for
customers

2,000 visitors per year

30 employees and over **100 additional staff members** (trainers/trainees) on site every day.



CONTACT:

Pierre-Alain Lhote, Managing Director

Email address: pierre-alain.lhote@edf.fr

Website: www.areva.com/EN/operations-1585/cetic

Bugey Nuclear Power Plant



The Bugey NPP control room



The Bugey NPP turbine hall

The Bugey Nuclear Power Plant is located in Saint-Vulbas along the river Rhône, about 40 km east of Lyon. It covers an area of more than 100 hectares.

The Bugey NPP is comprised of 5 units: 4 PWR units in operation (900 MWe/each) connected to the grid in 1978 and 1979 and 1 unit in decommissioning/dismantling process (Gas Cooled Reactor – 540 MWe). The Bugey NPP also includes a regional fuel storage facility and has a radioactive waste storage facility under construction.

The Bugey NPP generates 24 billion kWh/year, equivalent to 40% of the electricity consumed in the Rhône-Alpes region.

More than 1,700 persons work at the site: 1,288 EDF employees and 425 permanent contractors.

A major contributor to the local economy

About every 16 to 18 months, each unit is shut down for refuelling. During this period, maintenance is performed requiring the support of 600 to 2,000 contractors.

In 2012, procurement related to the operation and maintenance of the plant amounted to more than €85 million of which nearly 45% was spent in the Rhône-Alpes region.

Approximately €73 million are paid out each year in taxes and royalties, a third of which benefit the local communities.

CONTACT:

Mr. Alain Litaudon, Plant Manager

Email address: alain.litaudon@edf.fr

Website: www.energie.edf.com/nucleaire/carte-des-centrales-nucleaires/presentation-45867.html



© EDF - Alexis Morn



Flamanville-3

TRADE ASSOCIATIONS



A unique "One Stop Shop" dedicated to nuclear equipments and services



Partners in Nuclear Business is a partnership located in Burgundy created in 2005 by 9 founding members from industry (EDF, AREVA, Valinox Nucléaire, SFARSTEEL), R&D and education (CEA, University of Burgundy, "Arts & Métiers" engineering school, technical schools of Le Creusot and Chalon).

With all the heavy components of the NSSS of the French nuclear power plants having been manufactured in Burgundy, this region is considered as the cradle of the French nuclear industry. It features today a large number of small

and medium companies working for the main contractors of the French nuclear program and has a workforce of 12,000 highly skilled employees.

Partners in Nuclear Business has today a total of 160 members and manages to bring companies specialized in design, manufacturing, testing and maintenance of the components of the nuclear power plants together with a rich environment of academic institutions.

Striving for the excellence of the French nuclear supply chain

PNB's baseline strategy is to implement collaborative initiatives for the members in a way where each member is able to strengthen its strategy in the market of nuclear goods and services.

PNB implements such initiatives through:

- Innovation and R&D. PNB promotes collaborative R&D projects where each participant contributes to the development of the next generation technology in the following 4 areas:
 - Sustainable design of nuclear components
 - Non destructive testing and tools
 - Maintenance and dismantling operations within hazardous environment
 - Concrete for nuclear facilities
- Site visits, business meetings and others activities where members can network and share experiences
- Information and experience sharing, implementation of common strategies on how to address overseas markets

PNB is a forefront player in the field of nuclear training and education to support the supply of highly experienced professionals and graduates needed by the French industry.

PNB was the founding member in 2009 of the International Nuclear Academy, a unique continuing professional training institute providing short term seminars, long term programs or bespoke sessions. The speakers are renowned experts from industry and the lectures are given in English when needed.

www.polenucleairebourgogne.fr



An association fostering the development of international partnerships

- 72 French member companies
- Qualified suppliers of EDF for the French nuclear program
- Industrial companies that provide equipment and services for nuclear power plants all around the world.
- Based on the excellence of French practices: codes & standards, qualifications, monitoring of manufacturing, expertise and feedback from the French nuclear fleet

Objectives

A network of suppliers representing all sectors of the nuclear industry, from design to construction, from maintenance and operation, to decommissioning and dismantling:

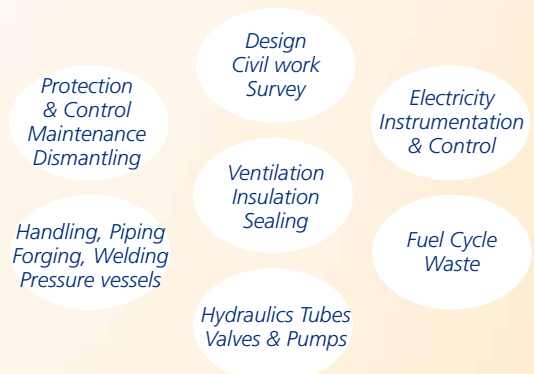
- for the sustainable development of small, medium and large French nuclear companies in the world through partnerships
- for assistance and finding partners in foreign countries
- for the promotion of quality, safety control of French companies with international organizations, national and local authorities

Activities

- architect engineer
- supply of equipments
- erection and installation
- commissioning
- monitoring
- maintenance
- dismantling
- waste management

PFME sectors

Multi-disciplinary nuclear industry portfolio



AIFEN

The French nuclear industry



AIFEN, a new trade association lending its support for the export of French nuclear technology.

France is the only country to have a portfolio that covers the entire nuclear cycle starting from the mining of uranium, engineering, manufacturing of reactors, extensive operating experience, to research on advanced reactors (including in the areas of safety and accident management), and more. France also has significant know-how in the sectors of waste management and disposal as well as the dismantling of reactors.

The scope of the French offer is such that the French nuclear industry can respond to any request, big and small, ones that relate to a full-scope project or only to part of a nuclear installation.

AIFEN creates opportunities such as:

- **Accessing a large network of businesses**, creating synergies with major companies that already work with major contractors around the world
- Fostering the development of **offers that will be more extensive and comprehensive**
- Providing assistance that will be fine-tuned in order to best **meet the customers' needs**
- Providing support for the **development of a strategy**, putting together a business plan, a financial package, performing a feasibility study, etc.
- Federating the French industry in order to put together the **best offer for its customers**



HOSTS



The world's largest operator of nuclear power plants

EDF is the world's largest producer of electricity. It produces around 22% of the European Union's electricity, primarily from nuclear power:

- Electricity: covering all aspects, from engineering, generation to transmission, distribution and delivery
- Solidly anchored in Europe and its main countries such as France, Italy, Poland and UK.
- Industrial operation in Asia, Brazil and United States
- Natural gas: a major player



EDF NUCLEAR ASSETS IN THE WORLD

- France:** 58 reactors in operation
- UK :** 15 reactors in operation
- US:** 5 reactors in operation (CENG 50/50 with Exelon)

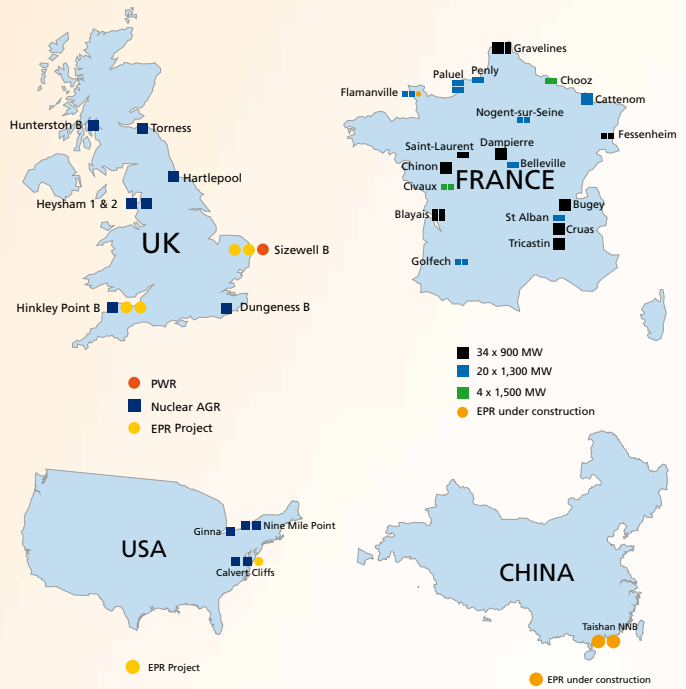
A new series with EPR

- FRANCE: Flamanville-3 under construction
- CHINA: Taishan / 2 units under construction
- UK: 4 units under development
- USA: 1 unit planned

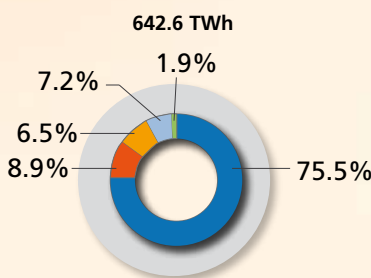
EDF nuclear expertise

EDF architect-engineer for all French units

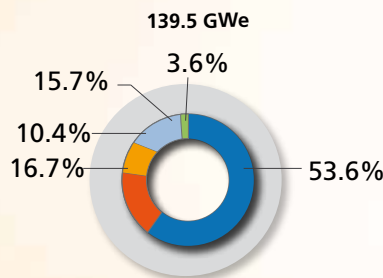
- More than 30,000 staff working in nuclear activities
 - 23,000 in operations
 - 6,000 in engineering
 - 1,000 in R&D



GENERATION



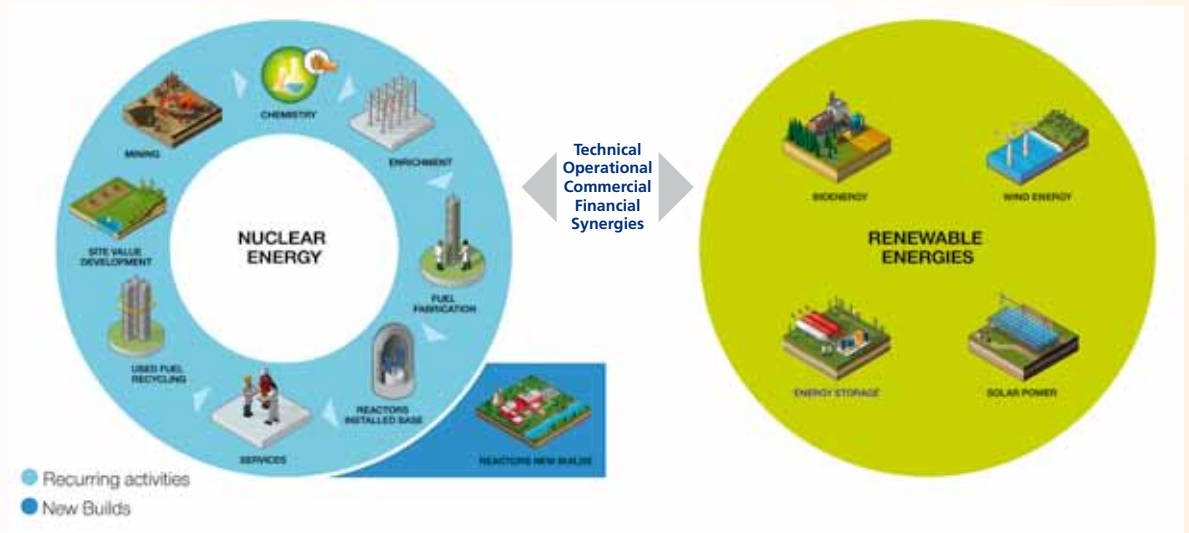
INSTALLED CAPACITY



- Nuclear
- Fossil-fired (excl. gas)
- Combined cycle gas and cogeneration
- Hydropower
- Other renewables

Solutions for Low-Carbon Power Generation

World energy demand is increasing. Greenhouse gas emissions must be curbed. To meet this dual challenge, AREVA is constantly innovating, making safety and security its top priorities. As world leader in the nuclear energy business and as a significant, growing player in renewable energies, AREVA supplies ever safer solutions for producing electricity with less CO₂.



102 reactors around the world representing **30%** of worldwide installed nuclear capacity

+ 4 EPR Under construction

360 + reactors served around the world out of **434** in operations worldwide



EPR Flammanville-3, France



EPR Olkiluoto-3, Finland



EPR Taishan-1/2, China

Major player in research, development and innovation



The French Alternative Energies and Atomic Energy Commission is active in four main fields: low carbon energies (nuclear and renewables), information technologies, health technologies, defence and global security. For each of these major fields, the CEA draws on first-class fundamental research and, jointly with industry, its role is one of inspiration and encouragement through innovation.



Established in 10 centres distributed throughout France, the CEA is developing numerous partnerships with the other research organisations, local authorities and universities. In this respect, CEA is a stakeholder in the national alliances coordinating French research in the fields of energy (Ancre), life and health sciences (Aviesan), digital sciences and technologies (Allistene) and environment sciences (Alllenvi).



As a recognised expert in its fields of competence, **CEA is a key player on the European research stage** and is enjoying an increasingly high profile internationally.

KEY FIGURES

- 10 CEA centres in France
- 16,000 employees
- 157 technological start-ups since 1972 in the innovative technologies sector
- In 2012, CEA is the number two French source of patents and the leading research organisation
- 55 framework agreements in force with universities and schools

www.cea.fr



N.TRIPLE.A

n.triple.a

The Nuclear Atkins Assystem Alliance



The Nuclear Atkins Assystem Alliance (N.triple.A) is an independent European nuclear consultancy providing technical and management expertise in the nuclear new build sector. From early feasibility studies and programme development to operations and regulatory support, our skills cover the full range required to support the development of a new nuclear power programme.

Atkins and Assystem are recognized by key participants in the global nuclear power industry for their engineering expertise and track record.

- Atkins has a reputation for delivering business critical engineering solutions to the nuclear sector for more than four decades.
- Assystem has built its engineering reputation in some of the world's safest, most advanced nuclear technologies by working with market leaders in the international new build sector.

The Alliance offers support to governments, regulators, vendors and utilities in countries developing nuclear power and provides intellectual services for nuclear new build projects and across the entire nuclear fuel cycle including the supply chain.

www.ntriplea.com
contact@ntriplea.com





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