



THE LEADING EVENT
FOR THE GLOBAL NUCLEAR ENERGY SECTOR

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The World Nuclear Exhibition, the first global event of its kind, will open its doors at Le Bourget on 14th October. It is an event that is being launched at a time when everything—its reception from the industry, the international situation, the numbers of participants and meetings between industry experts—all favour it.

Gérard Kottmann, President of the WNE and President of the AIFEN, the Association des Industriels Français Exportateurs du Nucléaire (the association of French nuclear industry exporters), talks to us about the major challenges.

WNE is a new initiative in a whole host of ways and particularly in its scale. Why this exhibition?

As the nuclear industry's first international exhibition, the WNE has been launched out of the desire of a number of stakeholders, both inside and outside France, to join forces to present their know-how and cutting edge technologies that are the pride of the sector and its manufacturers. It will bring together the industry's leading international decision makers, who have welcomed us with open arms and shown their enthusiasm by booking in large numbers. Over 430 exhibitors will be on show to 7,000 visitors from around the world.

At a time when several countries are having to make strategic choices about their energy policies, the mission of the WNE is to offer decision makers a comprehensive and precise overview of nuclear power in order to allow them to make informed choices. The nuclear industry believes that its low carbon nature and competitive price mean that nuclear has an important contribution to make towards solving global energy challenges and is consequently an essential component of the energy mix of the future.

Other events of this type already exist, what's so different about the WNE?

These events are very much conference oriented and focus on limited themes. The WNE is a completely new departure for the industry in that it is the only event in the world that presents the full picture by covering all of its activities (fuel cycle, engineering, civil engineering, manufacture of heavy components, radioprotection, maintenance, waste management, decommissioning and training). As part of this comprehensive coverage the event will include nuclear medicine, which offers recognized benefits for detecting diseases and developing therapeutic tools.

The WNE also differs in its goal of bringing together the world's entire civil nuclear community with the common objective of promoting its commercial development.

The medical applications you have just mentioned are an important part of the WNE. Why have you made this choice?

Very often, when the public thinks about nuclear it just thinks about electricity generation and forgets about its important role in medicine in particular. However, the fact is that nuclear plays a key role in the treatment of cancers and in diagnostic imaging (PET scan – Positron Emission Tomography) for radiology, neurology, pneumology or diagnostic biology for radio-immunology. It is important to remember this. One of the major current challenges is to ensure an adequate supply of the isotopes used for medical purposes. These are produced by research reactors and over the years to come a number of these are due to be permanently shut down because of their age. The construction of new ones is directly dependent upon the building of civil reactors. It is therefore crucial to act now and to identify the resources that need to be made available in order to ensure the continuity of isotope production for medical uses.

You are presenting the WNE as a platform for discussions and for information. But isn't it above all a business event?

That is a major part of the WNE. We wanted to create a business event whose primary mission was to enable players in a high added value industry to talk to each other, to forge partnerships, to search for new suppliers and to develop their export activities. The WNE is first and foremost an exhibition at which the various different stakeholders (manufacturers, producers, operators, engineering firms...) will present their technologies, products, services and programmes, meet customers, experts, policymakers, share their best practices, address questions from several different viewpoints, forge contacts and, we hope, sign contracts.

There is reported to be a packed, high quality programme. Can you confirm this?

It is actually extremely comprehensive and it is organized around a number of highlights such as round tables, special sessions or commercial presentations by companies.

The round tables will bring together high level experts and the French industry's big names: Luc Oursel, Chairman of the board of AREVA, Henri Proglio, Chairman and Managing Director of the EDF group, Marie-Claude Dupuis, Director General of ANDRA (the French agency for the management of radioactive waste), Bernard Bigot, Director General of the CEA (the French atomic and alternative energy commission), Yves Bréchet, High Commissioner for atomic energy and, finally, Richard Zimmermann, an expert consultant in industrial nuclear medicine.

Finally, we are currently finalizing a number of special sessions included one that is already scheduled on Small Modular Reactors (SMRs).

The sector's major companies will be present but your primary concern is to make the whole industry known...

This is an important aspect. The French nuclear industry is made up of more than 2,500 companies and most of these are SMEs or intermediate in size. These are a source of innovation and of experts in their respective fields and they contribute to the reputation of France's nuclear industry around the world and therefore to its international reach. The exhibition will provide them with an opportunity to make their technologies known and to generate the necessary synergies in order to export their know-how.

The exhibition runs for three days but isn't there already talk of a 'French nuclear week'?

We are trying to help all our participants, especially those coming from abroad, to make the most of their trip. Events are being organized around the show, at the start and end of the week. To date, the following have been scheduled: the Japan Engineering Forum, technical sessions organized by the IAEA (International Atomic Energy Agency) and the 'Atoms for the future' event being staged by the SFEN Jeune Génération (French nuclear power society – new generation). On the Friday visitors will be offered the opportunity to visit industrial and research sites in France or elsewhere in Europe.

How is international participation looking?

Very good! The WNE is an exhibition that is aiming to be highly international. It is taking place in France, in a country where the nuclear industry is important, but one that wants to share this show case and know-how with all the countries where this source of energy is important. Numerous leading companies have confirmed their presence alongside the French majors. They include Westinghouse from the US, Mitsubishi from Japan, Rosatom from Russia, as well as Chinese, Finnish, German, Korean and UK firms. Currently, over 20 countries are represented and even this provisional state of affairs means that it is already a success.

You have the support of a strong international network to help raise awareness...

The WNE can rely on a strong and well-organized network: the twenty nuclear councillors based abroad are an outstanding conduit for communications with their fingers on the local pulse, whether we're talking about operators or equipment producers who need to import. Reed Expositions France has an extensive global network we are able to draw on, whilst Ubifrance and Promosalons are both working to organize visits by foreign delegations.

The event also has strong backing from the Ministry of Economics, Finance and Industry, the Ministry of Foreign Trade and such major players as EDF, AREVA, the CEA, Vallourec, GDF Suez, ASSYSTEM etc...and their foreign offices have been mobilized to help high level decision makers and visitors with their travel arrangements.

Let's turn to a strategic question for the sector that will be much talked about at the exhibition: training...

The nuclear sector is one that makes extremely high demands on technical expertise, quality, rigour and organization. According to a study carried out by the CFSN (nuclear industry strategic committee), to which AIFEN belongs, an entire generation of technicians and experts will need to be replaced over the next ten years. Some 110,000 people will need to be recruited in France between now and 2020. This is a major economic challenge and the reason why we have decided to open the show on the Thursday to specialist educational institutions such as schools and universities.

The challenge of recruiting a new generation of experts is one that is common to all those countries exploiting nuclear power, whether they be newcomers such as Turkey and Saudi Arabia, or the UK, which is expanding its stock of nuclear power plants. All have need of the trainers and the training courses that France knows how to set up and organize.

At the WNE our aim will be to encourage discussions and partnerships with countries where demand exists. The IFCEN, (the Franco-Chinese nuclear power institute) in Zhuhai, Canton, is an excellent example of this.

A NUCLEAR INDUSTRY ON THE MOVE

Reducing dependency on fossil fuels that were subject to major price fluctuations and satisfying the steady increase in energy requirements were the main reasons back in the '70s and '80s that led to the development of nuclear power. This has been a development marked by constant advances in safety—an absolute priority for the entire industry—but also of yield, fuel savings and a reduction in environmental impact. Gradually, the nuclear industry has built up considerable expertise in areas such as decommissioning and the management of nuclear waste, and it now spans the entire nuclear added value chain.

Today, the growth in global energy requirements is more of a factor than ever. It is being driven by growth in the world's population, which is set to double between now and 2050, and by the economic growth of the emerging economies, who, by themselves, account for 80% of the increase in energy consumption. Furthermore, the global energy situation is marked by a progressive decline in fossil fuel reserves and by the need to cut greenhouse gas emissions. It is new challenges such as these that make nuclear an essential element in the energy mix of the future.

Today, nuclear power is responsible for generating around 11% of the world's electricity, with 434 reactors operating as of the end of April 2014 and 374 GW of installed power. At the end of April 2014, 72 reactors were under construction around the world, with the majority being in China and Russia. As of the same date, a further 173 units were planned and 309 expressions of interest had been registered. It is Asia that is driving this growth, with 29 units under construction in China and 57 planned, followed by India with 6 under construction and a further 22 being planned. Russia is another member of this leading group, with 10 reactors under construction and 31 planned. An eastward shift in nuclear power generation is underway driven by the rising demand for energy in the Orient. A number of other countries such as the United Arab Emirates (UAE) and Turkey have now joined the group of countries eager to take advantage of this source of power.

All these projects offer economic development opportunities for the countries where they are situated as well as for countries that export nuclear know-how. This is particularly the case for France, which, thanks to its highly specialized and experienced nuclear industry, enjoys undeniable advantages. The success of international nuclear projects requires close collaboration between stakeholders in the countries concerned and the mission of the WNE is to facilitate and encourage the development of such synergy.

¹ Sources: AEN, IAEA, WNA, CEA

A MARKET GENERATING GROWTH

In both Europe and on the other side of the Atlantic, indeed, throughout the OECD, scepticism in various countries has held projects back.

Nevertheless, between now and 2030, the International Atomic Energy Agency (IAEA) is forecasting a worldwide increase in installed nuclear capacity of between 20% and 80%, which is, admittedly, a rather broad spread. In its median scenario, the IAEA anticipates 287 new units, resulting in a total of 722 reactors in service round the world in 2030. However, uncertainties over regulations, the economy and social questions all have an impact on these estimates and the low-end scenario envisages 63 new units, whilst the high-end one forecasts an additional 340 units. For countries belonging to the OECD, most of the new units will be replacements for existing power plants, given that over 70% of the currently installed capacity will be between 40 and 60 years old by 2030. In addition, between 1996 and 2013, 66 units were taken out of service, whilst 71 new ones were connected to their respective grids.

In 2011, nuclear power generated 2,518 TWh (billion Kilowatt-hours) at a cost of 73 million tons of CO₂ emissions over the life cycle (i.e. construction, operation and decommissioning) according to the World Nuclear Association (WNA). Generating the same amount of energy from gas would have produced carbon dioxide emissions of 1,256 million tons and from coal the emissions would have been 2,236 million tons. Even if the emissions associated with the extraction of the uranium are added in the difference is still massively in favour of nuclear, which produces no CO₂ whilst operating. This is a not insignificant advantage in the fight against climate change through a sustainable energy transition.

NUCLEAR POWER IN THE OECD

Total production of electricity and electricity generated from nuclear both fell in OECD members by 0.1% and 5.2% respectively between 2011 and 2012. The share of total electricity generated by nuclear power plants also fell from 19.9% in 2011 to 18.9% in 2012. This decline reflected the fact that three reactors at the end of their lives (two in the UK and one in Canada) were taken out of service, operating problems were experienced by certain installations and all the Japanese reactors were completely shutdown. Output records achieved by nuclear power plants in Hungary and the Czech Republic together with increased output in Canada, Spain, France and Sweden helped to offset the drop in production in Germany, the United States and the United Kingdom.

As a result, there were 331 reactors in service and connected to the grid in the OECD's member countries, which meant that installed electricity generation capacity grew by 0.7% from 300.7 GW (net Gigawatts) in 2011 to 302.9 GW (net) in 2012. As of 31st December 2012, there were nineteen reactors under construction (six in North America, four in Europe and nine in the Pacific region, although construction of four of these had been suspended, at least temporarily, in Japan). In addition, there were firm orders for twenty three reactors, including the first four reactors for power generation in Turkey, which will be built at Akkuyu, on the Mediterranean coast. If all the units under construction or on order are completed then the grids of OECD countries will be able to draw on an additional 51.6 GW. On the other hand, a total of nine reactors will be taken out of service between now and 2018, which will reduce installed capacity by 7.1 GW.

Source AEN 2013

END-TO-END INTEGRATION

Although the nuclear industry was initially geared towards the generation of electricity, it has gradually expanded to cover the entire life cycle of power plants.



The nuclear industry spans the extraction of uranium and its processing into fuel, the construction of reactors and associated services, the decommissioning of installations, recycling and the management and storage of radioactive waste.

AND TOMORROW?

Exploiting the uranium ore in its entirety, multiple recycling of plutonium, converting a portion of the radioactive waste into fuel whilst guaranteeing an operation the meets the strictest safety standards: these are the challenges confronting the fourth generation of reactors. This fourth generation will be based on work done in the leading developed nations, which have come together in the Generation IV International Forum in order to support the most promising projects.

Looking further ahead, there is the prospect of fusion. Worldwide research in this field is focused on the ITER programme in Cadarache, France, which is being pursued by the United States, Russia, China, India, Japan, South Korea and the European Union. Its goal is to build a demonstrator capable of recreating the energy of the sun on earth.

NUCLEAR MEDICINE: from X-rays to MRI

Medicine was the first discipline that Röntgen's discovery of X-rays in 1895 had an impact on, whilst radiotherapy was the first direct application of radioactivity. It has been used since the First World War to detect fractures and to locate bullets and shrapnel.

In the interim, nuclear medicine has come of age. From scanners to MRI, not forgetting cancer treatments, nuclear plays a role and is able to draw on a cutting edge industry with numerous expert members.

Nuclear medicine uses radiation in order to help monitor the function of certain human organs and to treat certain illnesses, especially cancers, by targeting specific cells. Currently, what is referred to as 'internal' or 'metabolic' radiotherapy that is used. This involves administering a radiopharmaceutical product that targets the tumour and delivers a local dose of radiation in order to effect a cure or for palliative purposes (beta rays with or without gamma rays, the latter allow the concentration of the product to be monitored by means of conventional scintigraphic imaging).

More than 10,000 hospitals around the world use medical radio-isotopes and about 90% of the usage is for diagnostic purposes.

Eight reactors around the world are currently involved in the production of radio-isotopes for nuclear medical imaging (scintigraphy, PET scans) (South Africa, Australia, Belgium, Canada, France (Osiris at Saclay), the Netherlands, Poland, Czech Republic). Over the medium term, the situation is delicate, with the planned closure of the Canadian NRU reactor in 2015, the Belgian reactor being scheduled to shut down for maintenance in 2015-2016 and the ongoing operation of Osiris at Saclay in France currently in doubt.

Other uses for radio-elements

There are almost 5,000 users of de radio-elements in France. Nuclear medicine and medical research account for a quarter of these. Over ten thousand gauges based on radio-elements are in use and more than three million smoke detectors. Treatments to improve plastics, radio sterilization and hygiene treatments are the best-known applications of isotopes and radiation.

FRENCH NUCLEAR EXCELLENCE

The roots of the French nuclear industry go back to the '70s and a time when energy independence became a strategic need for a number of countries. With over 75% of its electricity generated from nuclear power today, France made a technological choice that has had a defining impact on the structure of its economy. The country has also developed an electro-nuclear sector that is a world leader.

THE FRENCH NUCLEAR INDUSTRY IN FIGURES *

- Over **2,500** companies
- Nearly **220,000** employees
- **110,000** recruits needed between now and 2020 in France
- Turnover of **€46 billion**
- An added value of **€15 billion**
- **€1.8 billion** spent on R&D
- **4th** most innovative industry in France
- **70%** of the companies export their know-how

* Source figures relate to the nuclear process and do not include mining and associated activities such as monitoring, sales, transport...

Source: CSFN

AN INTEGRATED AND DIVERSIFIED INDUSTRY

The French nuclear industry is an integrated industry. Its activities are organized around four major links in the added value chain: upstream (extraction of the uranium and production of the fuel), the construction, operation and maintenance of the reactors and, finally, downstream (recycling, decommissioning, the management and storage of radioactive waste).

It includes French companies that operate on a global scale, public sector research institutions and a web of hundreds of SMEs and intermediate sized companies.

The larger specialist companies work in these various sectors and alongside them there are the CEA, ANDRA and the IRSN (Radioprotection and Nuclear Safety Institute) undertaking the central roles of R&D, waste management and radioprotection. For its part, the ASN (Nuclear Safety Authority) monitors and regulates nuclear activity within France. The size of EDF and AREVA mean that they have a decisive influence.

Besides the leading players in the electro-nuclear industry over 2,500 French companies have established their positions and been able to develop their electro-nuclear specialities.

SUBSTANTIAL RECRUITMENT REQUIREMENTS

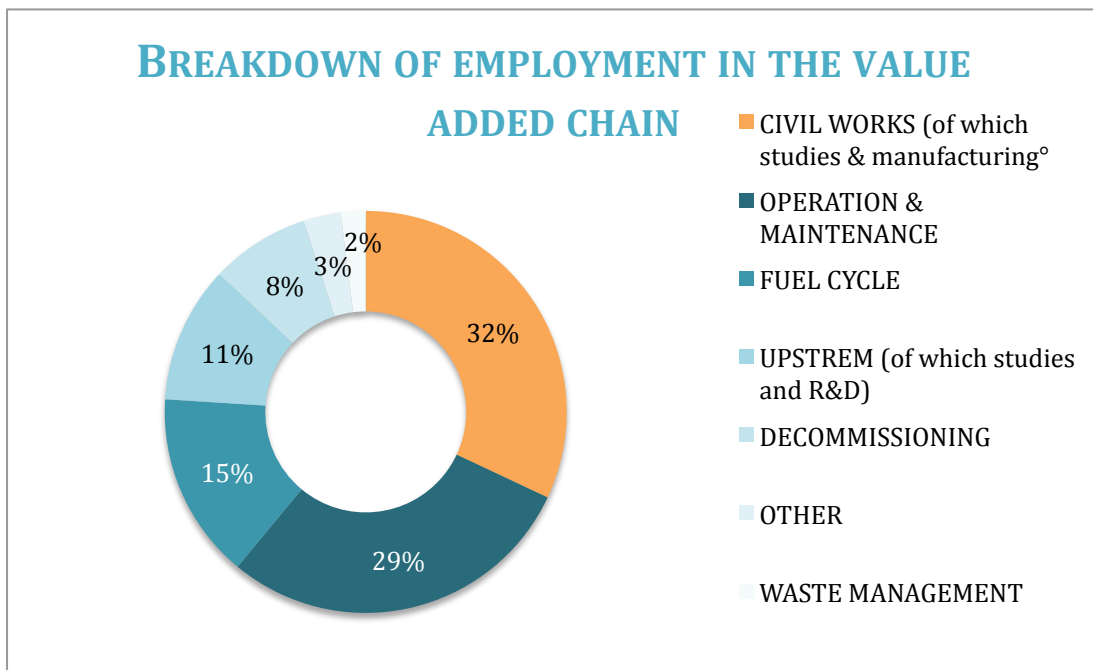
The nuclear industry is globally recognized for its excellence. It is made up of some 2,500 companies directly employing almost 220,000 people, which is 6.2% of French industrial employment. The number climbs to 400,000 and more if jobs dependent on the nuclear industry are included, according to a PwC study in 2009.

Bear in mind that the sale of just one reactor abroad generates around 1,200 direct French jobs from the design phases for the project to its construction and twice as many indirect and dependent ones.

The bulk of these jobs are focused on the development and operation of the nuclear park.



© Photo Onet Technologies



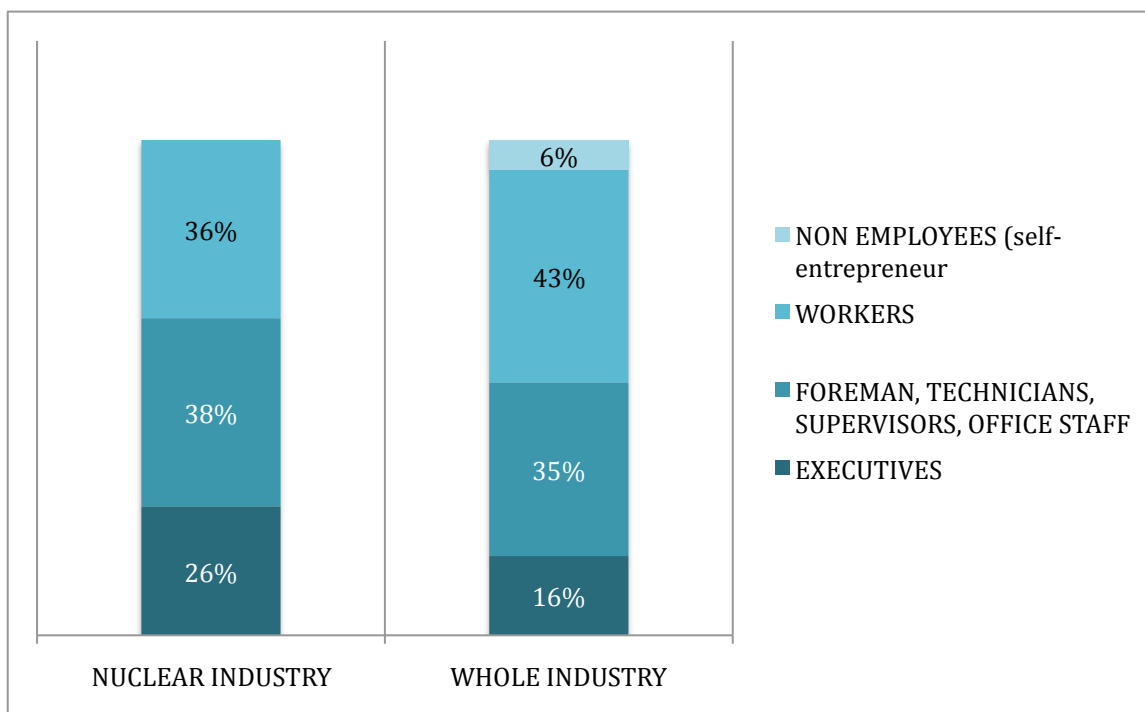
Source: CSFN

Across the whole of the industry and all levels of qualification, 60% of companies are recruiting and between now and 2020 110,000 people will need to be recruited in a whole host of fields including design offices, monitoring/control and instrumentation, training, staff working at nuclear sites, quality / safety, valves, welding and non destructive testing.

This recruitment will affect the whole of the nuclear industry: R&D, design, construction, operation, decontamination, decommissioning, fuel cycle and the treatment/management of waste.

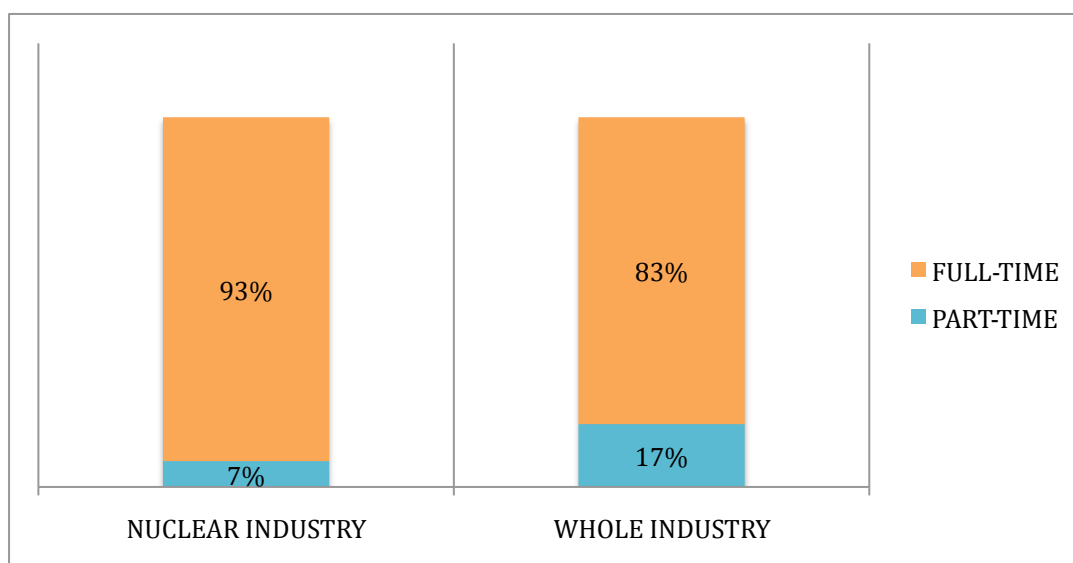
AN INDUSTRY GENERATING QUALIFIED AND SECURE JOBS

Given the high technical level required, the level of qualification for jobs in the industry is higher than the average for French industry.



Source: CSFN

Stability of employment is one of the characteristics of the industry. The effort companies invest in the qualification and training of employees explains why less use is made of part-time working than the national average.



Source: CSFN

AN EXPORT-ORIENTED INDUSTRY

The nuclear industry generates a turnover of more than €46 billion in France and its export activities are not just the preserve of the major groups. Exports account for about a quarter of the business of SMEs and intermediate sized companies and the industry's contribution to the French balance of trade is the equivalent of one month of deficit.



Source: CSFN

WORLD LEADERSHIP

The civil nuclear industry is a high technology sector in which France enjoys a world leadership, and this expertise opens up considerable export opportunities both in terms of extending the operation of reactors that are nearing the end of their theoretical working lives and also in the construction of new reactors.

France enjoys acknowledged strengths both in relation to third generation EPR reactors (1,650 GW), four of which are in the course of being completed, and the ATMEA (1,100 GW). The association of French nuclear industry exporters (AIFEN) is establishing its position as a reference point for the entire electro-nuclear industry in France.

KEY FACTS

Almost 17,800 sqm of exhibition space

460 exhibitors expected

made up of France: 75 %

International: 25 %

31 countries represented (apart from France)

7,000 visitors expected from 32 countries

UPSTREAM TO DOWNSTREAM, REFLECTING THE MAJOR CHALLENGES

The WNE will bring together all those involved in civil nuclear and nuclear medicine at le Bourget from 14th to 16th October.

THE WNE: SHOW CASE FOR THE WORLD'S ELECTRONUCLEAR INDUSTRY...

Over 450 French and international companies representing the whole of the industry (apart from the extraction of uranium), from the processing of the fuel up to the treatment of the waste, will present their know-how to over 7,000 professionals from Europe, Asia, Africa, the Middle East, the Americas and Russia.

Besides major electrical power operators; manufacturers of reactors such as AREVA, WESTINGHOUSE, MITSUBISHI, ROSATOM and major international companies active throughout the supply chains will be present. These include:

FUEL CYCLE: CAMECO...

CONSTRUCTION COMPANIES: BOUYGUES, CLEMESSY, OMEXOM...

CONSULTANCY AND ENGINEERING: ASSYSTEM, ALTRAN, BILFINGER PIPING TECHNOLOGIES, TRACTEBEL...

MATERIALS, TOOL AND COMPONENTS: ALSTOM, ARCELOR MITTAL, EMERSON, FUJI ELECTRIC, KROHNE, KSB, OUTOKUMPU VDM, ROLLS ROYCE, SANDVIK MATERIALS TECHNOLOGY, SCHNEIDER ELECTRIC, SIEMPELKAMP MASCHINEN UND ANLAGE, THYSSENKRUPP, ULTRA ELECTRONICS, VALLOUREC...

MAINTENANCE: COFELY ENDEL...

LOGISTICS - TRANSPORT: DAHER, REEL...

PROCESSING / MANAGEMENT OF WASTE: ANDRA, ONET, ROBATEL, STDUSVIK,...

DECOMMISSIONING: ASTERALIS / VEOLIA, WALISCHMILLER, ENGINEERING ...

RADIOPROTECTION: LANDAUER, MIRION TECHNOLOGIES...

RESEARCH – EDUCATION - TRAINING: CEA, INTERNATIONAL INSTITUTE OF NUCLEAR ENERGY (I2EN)

.... AND MEDICAL APPLICATIONS

The inclusion of nuclear medicine as an integral part of the WNE is driven by the structure of the market, since the major players in the electro-nuclear industry have been able to apply their know-how and techniques on behalf of medical diagnostics. Besides AREVA, and the CEA ... a number of other companies will be present including Lemerpax, the members of the Nucléopolis....

A CROSSROADS FOR GLOBAL SUPPLY AND DEMAND

Highly international in its outlook, the WNE offers exhibiting companies the opportunity for discussions, the chance to search out new suppliers and to develop their international activities.

As a crossroads for global supply and demand, the WNE has exhibitors from over 31 countries either on individual company stands or national pavilions. The latter are not just simply a reflection of the international nature of the exhibition but also demonstrate the involvement and support of nuclear industry organizations from around the world.

- ◆ **American pavilion**, which is being organized under the auspices of the US NIC (United States Nuclear Infrastructure Council)
- ◆ **British pavilion**, organized by the **EIC** (Energy Industries Council), with the support of the NIA (Nuclear Industry Association) and **UKTI** (UK Trade and Investment)
- ◆ **Chinese pavilion** supported by the **CNEA** (The China Nuclear Energy Association)
- ◆ **Korean pavilion** supported by the **KHNP** (Korea Hydro & Nuclear Power)

- ◆ **Japanese pavilion**, supported by the **JAIF** (Japan Atomic Industry Forum)
- ◆ **Finnish pavilion: FinNuclear** (Finnish nuclear association) supports the collective Finnish participation.
- ◆ **Russian pavilion**, promoted by the Russian **Sarov Nuclear** atomic cluster

Other pavilions are in the course of being confirmed.

In parallel with the above, a number of groupings being promoted by public or private sector stakeholders in the industry, chambers of commerce, and competitiveness clusters will round out off what the exhibition has to offer:

- ◆ Pôle Nucléaire de Bourgogne (PNB) [Burgundy nuclear cluster]
- ◆ Pôle Trimatec [Trimatec cluster]
- ◆ GIIN (Groupe Intersyndical de l'Industrie Nucléaire) [Federation of nuclear industry associations]
- ◆ Bourgogne développement [Burgundy development]
- ◆ Chambre de commerce de Champagne-Ardenne [Champagne-Ardenne chamber of commerce]
- ◆ Chambre de commerce de Haute Normandie [Upper Normandy chamber of commerce]
- ◆ Chambre de commerce de la région du Nord : Nuclei [North region chamber of commerce: Nuclei]
- ◆ Chambre de commerce de Seine et Marne [Seine and Marne chamber of commerce]
- ◆ Centre Technique des Industries Mécaniques [Mechanical engineering technical centre]
- ◆ Nucléopolis
- ◆ ATOMouest
- ◆ FIM
- ◆ Vallée de l'énergie [Energy valley]
- ◆ Viameca

In order to meet these exhibitors, the WNE will invite a number of delegations of decision makers and buyers from Western countries and Japan, as well as rising powers with growing energy needs (China, India...).

EXTENSIVE PROMOTION

Founded at the instigation of the AIFEN, the WNE has naturally benefited right from its launch from the substantial support of the CSFN (nuclear industry strategic committee) and industrial partners.

The very active support right from the outset of big names such as EDF, AREVA, the CEA (atomic and alternative energy commission), ANDRA (national agency for the management of radioactive waste), the GIIN (federation of nuclear industry associations) and the PNB (Burgundy nuclear cluster) has served as a guarantee of success when talking to contacts in Asia, Europe, the Americas, Russia and the Middle East.

It is first and foremost due to the cohesion of the entire industry that the WNE has seen the light of day. The Chairman of EDF and the Chairman of the Board of AREVA, who set the ball rolling, embarked on an effective promotion of the WNE some months ago and have been followed by the sector's big names such as Alstom, ANDRA, DCNS, Vallourec, Cofely Endel, Assystem, the ONET group, ...

The legitimacy of the WNE has been reinforced by the support of numerous institutions including various ministries (Ministry of the Economy, Finance and Industry, Ministry of Foreign Trade).

The international community has been associated with the event right from the start with numerous international partnerships being forged with the AIFEN. These include the NIA (British Nuclear Industry Association), the CNEA (China Nuclear Energy Association), FinNuclear in Finland, USNIC (United States Nuclear Infrastructure Council) in the United States, the OCI (Organization of Canada Nuclear Industries), the KNA (Korean Nuclear Association) or the JAIF (Japan Atomic Industrial Forum).

The WNE has also benefited from powerful international promotion as a result of the CEA mobilizing its nuclear councillors in embassies around the world.

The AIFEN and the organizing team have made numerous foreign trips (United States, Saudi Arabia, India, China, South Korea, South Africa, Japan, the United Kingdom, Poland, Germany, Finland...) supported by UBIFRANCE and Promosalons in 32 countries, and these efforts have been rewarded by the enthusiasm shown by the various people and associations that they have met.

THE EXHIBITORS INCLUDE

"We, Mitsubishi Heavy Industries. Ltd, are very pleased to participate in the World Nuclear Exhibition Paris 2014. Many nuclear business companies from all over the world are going to participate in WNE and we do believe it is a good opportunity to exchange information and make the nuclear industry stronger."

**MASAHIKO MORINO - VICE PRESIDENT & SECTION MANAGER OVERSEAS SERVICE SECTION
KOBE NUCLEAR ENERGY BUSINESS OPERATIONS DEPARTMENT BUSINESS DIVISION, ENERGY & ENVIRONMENT
MITSUBISHI HEAVY INDUSTRIES. LTD**

"WNE promises to be a truly international event that addresses the whole spectrum of the nuclear power industry and provides us with the opportunity to further strengthen our relationship with our customers. We're looking forward to showcasing our technical expertise and nuclear capability, which spans new build, operational support and lifetime extension on an international stage."

**DEBBIE HUSTON - GLOBAL MARKETING AND EXTERNAL COMMUNICATIONS MANAGER – NUCLEAR
ROLLS-ROYCE**

"With its 400 exhibitors and thousands of expected visitors, WNE will above all be an opportunity to present the unique things that the Vallourec Group has to offer in the nuclear field. Vallourec supplies weld-free tubes for steam generators as well as products for the nuclear environment for the world's major power plant operators and builders. Our presence at this major global nuclear event will therefore be an excellent opportunity to meet our customers but also to consolidate our network of partnerships, which, like us, emphasize the highest safety and quality standards. Besides its commercial aspect, I expect this exhibition to be a show case for French technological know-how for civil nuclear and that it will highlight the cohesion of the industry. Finally, I hope that promotion of the exhibition will be a new opportunity to inform the public and the media about the reality of nuclear energy and its contribution towards reducing our carbon emissions, to the economic vigour of our country and to the competitiveness of our industry."

**NICOLAS DE COGNAC - DIRECTEUR DE LA DIVISION POWER // DIRECTOR OF THE POWER DIVISION
VALLOUREC**

"As part of the PNB (Burgundy nuclear cluster), the WNE is an excellent opportunity for LEMER PAX to present its know-how (product design and manufacture) for nuclear protection in the civil field. For the company it will be an opportunity to meet future international partners and to promote French technology. The international nature of the WNE is a perfect match with our desire to expand our company's export business. In 2017, 80% of our turnover will come from exports. The medical side of the WNE, i.e. Nuclear Medicine, will offer visitors a complementary vision of nuclear applications and it will allow LEMER PAX to highlight its cross-technology know-how in this field and its spirit of innovation in these various sectors."

**PIERRE-MARIE LEMER – CHAIRMAN AND MANAGING DIRECTOR
LERMER PAX**

"Finally, an event with a global reach for such a restricted market as nuclear!

As an SME that specializes very tightly in niche markets but which operates globally, we have signed up for this event and believe that it offers us a triple opportunity:

- to highlight the extent, coherence and quality of what French SMEs have to offer,*
- to raise the profile of THERMOCOAX for reactor construction project in Europe, Asia and the United States,*
- to create opportunities for contacts with our established customers."*

**JEAN CHRISTOPHE TRACHEL - DIRECTEUR GENERAL // MANAGING DIRECTOR
THERMOCOAX**

"We expect the WNE to be an exhibition

- that highlights the French nuclear industry to investors and foreign end-users and that is a show case for our company's know-how,*
- that it will offer maximum exposure (in both number and quality) to visiting investors and foreign end-users,*
- and that the WNE will promote contacts and discussions with them."*

**ALAN ROCHERY – DIRECTEUR COMMERCIAL // MANAGING DIRECTOR
BERNARD CONTROLS**

"The Japan Atomic Industrial Forum, Inc. (JAIF) supports Japanese nuclear industry to expand their business overseas and expects the World Nuclear Exhibition (WNE) would provide them with a window of opportunity to be active in the global supply chain."

**MASAHITO KINOSHITA - GENERAL MANAGER, DEPT. OF POLICY, COMMUNICATION & INTERNATIONAL AFFAIRS
JAPAN ATOMIC INDUSTRIAL FORUM, INC (JAIF)**

A SIGN OF SUCCESS ...? THE OPENING OF AN ADDITIONAL HALL

All the space in halls 2A and 2C of the le Bourget Exhibition Centre has been sold and so the WNE is opening up an additional hall in order to be able to accommodate further exhibitors.

EXHIBITOR WORKSHOPS

Two spaces will be set aside at the heart of the event and every day they will host technical/commercial discussion sessions staged by exhibitors lasting nearly an hour. Exhibitors will be able to make presentations of their know-how and technologies lasting around 25 minutes to an audience of around 150 sector professionals and then use the following 30 minutes for networking.

Visitors to www.world-nuclear-exhibition.com will be able to use its 'conference' engine or the exhibitor list to organize their diaries.



A BUSINESS EXHIBITION

Given the specific nature of the decision making process in each of the countries from which visitors are drawn, the WNE will welcome both government organizations (ministries, safety authorities, government agencies), private sector operators and operating teams.

In order to respond to differing needs of a highly segmented pool of visitors, the WNE is setting up a series of programmes tailored to each profile: the MIP (Most Important People), VIP (Very Important Person) and Buyers' Club programmes.

Through the UBIFRANCE network and the nuclear councillors in French embassies together with the foreign subsidiaries of major groups, the WNE has been able to identify the industry's key players. These will be invited to the exhibition and will have the benefit of personal guidance over the three days.

THE MIP PROGRAMME

Ministries, safety authorities, government agencies, operators, heads of design consultancies, directors of major industry associations will be invited and will benefit from a service to put them in contact with exhibitors as well as access to the Lounge and its private areas.

THE VIP PROGRAMME

Directors of nuclear power plants, research centres, institutional advisers will be able to access the Lounge to take advantage of dedicated services and to take part in networking sessions.

THE BUYERS' CLUB PROGRAMME

Strategic players in decisions and industry projects, buyers, power plant purchasing directors, project leaders and engineers closely involved in the signing of purchasing contracts or partnerships. The WNE will be the event that allows them to meet up and strengthen links within their community. Whether it be in the form of business meetings, cocktails or networking breakfasts, the Buyers' Club will offer buyers excellent opportunities for meeting each other.

CONTENT ON A PAR WITH THE EVENT

THE ROUND TABLES

In order to optimize the discussion dynamics, 90 minute round tables will be staged every morning and will involve the directors of major groups, experts and international spokespersons.

The sharing of experience and expertise will be encouraged at the show with a focus on the challenges facing the sector and in particular on the 'trades' and training, security, innovation and future technologies, decommissioning and waste management.

This programme will be rounded off by a round table dedicated to medical applications held on the Thursday, which will address the challenges from the technical, economic and social points of view.

Preliminary programme

TUESDAY 14TH OCTOBER - MORNING

ROUND TABLE 1: OPERATING NUCLEAR POWER PLANTS

The round table will be led by **Henri Proglio, Chairman and Managing Director of the EDF group**, and will involve figures from the world of politics and industry. Discussions will focus on operation over the life of nuclear power plants.

ROUND TABLE 2: SAFE AND PROVEN TECHNOLOGIES FOR REACTORS AND THE FUEL CYCLE

The construction of new nuclear power plants and improvements in the performance of existing ones continue to be pursued around the world in response to energy and climate challenges. As industrialists our responsibility is to provide the best technologies in order to guarantee the highest levels of safety, performance and security of fuel supply.

Luc Oursel, Chairman of the Board of AREVA, together with the chairmen of companies generating electricity and industrial companies from around the world, will discuss these challenges from following angles:

- Optimizing industrial and financial arrangements in order to increase the competitiveness of nuclear power,
- Nuclear safety, security of fuel supply, sustainable development: how can these questions be properly managed?
- Supply chain: the right balance between producing locally and importing.

WEDNESDAY 15TH OCTOBER - MORNING

ROUND TABLE 3: PREPARING FOR THE FUTURE

Led by **Bernard Bigot**, Director General of the Atomic and Alternative Energy Commission (CEA), with participants from the UK, WENRA (Western European Nuclear Regulators' Association), Russia, the United States, China as well as members of the EDF Group R&D team. They will discuss innovation as a key element in the transition from current generation reactors to new technologies.

ROUND TABLE 4: DECOMMISSIONING AND WASTE MANAGEMENT

Led by **Mrs Marie-Claude Dupuis, Director General of ANDRA** (the French Radioactive Waste Management Agency) the round table will discuss institutional questions, decommissioning and management, production, political responsibility, surface storage for operating waste, the development of geological storage.

THURSDAY 16TH OCTOBER - MORNING

ROUND TABLE 5: HUMAN RESOURCES – TRAINING FOR NUCLEAR PROGRAMMES

Led by **Yves Bréchet, High Commissioner for Atomic Energy**, the participants will discuss the necessary influx of new experts in traditional operating countries and the establishment of specialist teams in countries that are new to nuclear power.

ROUND TABLE 6: RADIONUCLEIDES AND HEALTH: A PROMISING FUTURE

Led by **Richard Zimmermann, expert consultant in industrial nuclear medicine and director PET Europe projects** (positron emission tomography), the discussions will cover regulations, industrial, economic and social technical challenges as well as an overview of the market in general and the American, Canadian and European points of view.

PARALLEL PROFESSIONAL EVENTS

EDF – WANO Symposium

« Nuclear safety at the heart of operation »

A highlight of the week, the symposium jointly organized by **EDF and WANO** (World Association of Nuclear Operators) on the theme of safety. **Henri Proglia, Chairman and Managing Director of the EDF Group**, and **Jacques Regaldo, President de WANO**, are inviting experts from Europe, the United States, China and Russia to take part in round tables on **Thursday 16th October** in front of several hundred attendees from all around the world.

The entire industry will take advantage of the staging of the WNE to organize professional meetings alongside the exhibition. These meetings are being organized in order to exploit the synergy with the WNE and will attract experts from the sector who will find concrete solutions to their problems in parallel with what is on show at the WNE.

Starting on Monday 13th October, the JEF (Japanese Engineering Forum) will bring together Japanese and foreign engineers, the SFEN Jeune Génération [Young Generation] will welcome students and young professionals from around the world to Paris for its 5th 'Atoms for the Future' event, the IAEA, amongst others, will organize courses.

Other professional events will take place alongside the WNE.

Preliminary programme in brief

MONDAY 13TH OCTOBER	THE JAPANESE ENGINEERING FORUM - JEF Organized by the JAIF (Japan Atomic Industrial Forum)
	TECHNICAL COURSES ON THE SUPPLY CHAIN Organized by the IAEA (International Atomic Energy Agency) Meeting for 30 foreign trainees: institutional and industrial engineers
MONDAY 13TH AND TUESDAY 14TH OCTOBER	ATOMS FOR THE FUTURE Organized by the SFEN Jeune Génération (French Nuclear Power Society – New Generation)
THURSDAY 16TH OCTOBER	EDF – WANO SYMPOSIUM 'Nuclear safety at the heart of operation'

SITE VISITS

Finally, on Friday, after the exhibition, visitors will have the chance to round off this civil nuclear week with visits to industrial or research sites in France or elsewhere in Europe.

ANDRA has already confirmed a visit to its installations in the Aube and its underground laboratory in Meuse/Haute-Marne, and Westinghouse has confirmed a visit to its maintenance workshops in Nivelles.

A fuller programme of visits is currently being finalized. Highlights will include visits to AREVA, EDF and CEA sites.

DATES AND TIMES

From Tuesday 14th to Thursday 16th October 2014
From 9.00 a.m. to 6.00 p.m.
Le Bourget Exhibition Centre, Paris – France

Trade only

PRICES

The WNE is strictly reserved for civil nuclear professionals.

Pre-registration is free and solely by means of invitation code.

In the absence of an invitation code, entry will be charged for. The price will be announced in due course.

SERVICES FOR JOURNALISTS

A Press space is available on the exhibition web site: www.world-nuclear-exhibition.com, **PRESS** tab.

This features the exhibition press releases and packs, a gallery of HD photos and your accreditation application...

THE PRESS BADGE

The press badge secures free entry to the exhibition, the lectures and the press office for the three days of the exhibition.

HOW TO OBTAIN A PRESS BADGE

- Request your badge online after having completed the accreditation form available at <http://www.world-nuclear-exhibition.com> PRESS tab, PRESS ACCREDITATION section.
- An electronic badge will be e-mailed to you.

THE PRESS OFFICE AT THE EXHIBITION

The press office, located at the heart of the WNE, will be open **from Monday 13th October from 2.00 p.m. onwards and then from Tuesday 14th until Thursday 16th October, from 8.30 a.m. to 6.30 p.m.**

A working space, it will be equipped with Internet access and will provide show news, exhibitor press releases, the exhibition press pack, as well as the day's photos.

TRANSPORT, ACCOMMODATION

Our accommodation and transport offers are available on the WNE web site: www.world-nuclear-exhibition.com, Practical Information section.

PREPARING FOR YOUR VISIT

You will find all the information you need for your visit at www.world-nuclear-exhibition.com:

- access exhibitor details and plan your meetings,
- learn about the round table and workshop programmes,
- request your badge.

AIFEN



The **AIFEN** (Association des Industriels Français Exportateurs du Nucléaire – Association of French nuclear industry exporters) represents more than 300 French companies and major organizations (PFCE, PFME, GIIN, PNB).

These companies (from SMEs and VSBs to the largest groups) cover the entire nuclear cycle, from fuel manufacturing to dismantling, including engineering, technology, components, production, research, etc. They are active in electricity generation, the development of research reactors, the sciences, medical applications and even marine propulsion.

The AIFEN brings together the expertise of its members to promote their knowhow and experience throughout the world, and to help them expand their businesses into new markets.

In fall 2013 the AIFEN, with the support of 4 member associations (PFCE PFME, PNB, GIIN) launches the World Nuclear Exhibition (WNE) and signs two partnership agreements with the CEA and the British Nuclear Industry Association.

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Reed Expositions France is part of the Reed Exhibitions (Reed) group, the world's leading events organiser, with 3,500 employees.

Reed Exhibitions staged over 500 events in 40 countries bringing together more than 6 million participants from the Americas, Europe, the Middle East and Asia Pacific. Our wide range of events includes trade and consumer exhibitions, conferences and meetings, in the following industry sectors: Aerospace & Marine, Business service, Construction, Design, Engineering-Manufacturing & Distribution, Environment & Natural resources, Food, Homes, IT& Telecoms, Medical, Health & Beauty, Property, Publishing-Media & Communications, Recreation, Travel.

As a member of Reed Elsevier group plc, a world-leading provider of professional information solutions, Reed offers integrated market access programmes covering exhibitions, trade publications, direct marketing and the Internet.

Reed is today France's leading show organizer with 60 events. It comprises Reed Expositions France and Reed-Midem.

Its subsidiary, Reed Expositions France, organizes 50 trade shows in the fields of art (FIAC, Paris Photo), broadcasting and TV (Satis), costume jewellery (Bijorhca Paris), construction (Batimat...), the environment (Pollutec...), franchising, interior design (interclima+elec, idéo bain), hotels and catering (Equip'Hôtel...), household equipment (Maison&Objet , organised by Safi, a subsidiary of Ateliers d'Arts de France and Reed Expositions), information technology (Medpi, Documation), industry (Midest), leisure (Nautic - Salon nautique de Paris, Festival de la Plaisance de Cannes...), marketing and communication (Viscom, Marketing at retail), medical and biology (Cardiostim, International Biology Days), publishing (Paris Book Fair...), security (Expoprotection, APS...), transport and logistics (SITL) and tourism (IFTM -Top Résa...)

In 2013, Reed Expositions France brought some 16,000 suppliers together to meet 1.4 million French and foreign buyers.

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THE ATOMIC AND ALTERNATIVE ENERGY COMMISSION



A major player in research, development and innovation, the Atomic and Alternative Energy Commission is active in four main fields: 'low carbon' energy (nuclear and renewables), information and health technology, very large scale research infrastructure and defence and general security. In each of these four main fields, the CEA undertakes high quality basic research and provides support for industry

In the field of nuclear power, the CEA acts as an adviser to the French government on nuclear policy in order to promote and develop a safe and responsible use of nuclear power in the fields of healthcare, agriculture, industry or access to energy in accordance with the international undertakings of France.

CONTACT

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www.cea.fr

The Federation of Nuclear Industry Associations



French Nuclear Suppliers Association

The Federation of Nuclear Industry Associations is a federation that brings together and represents French companies involved in the nuclear industry spanning the production of fuel, reactors and equipment, maintenance/decontamination, reprocessing, storage, decommissioning.

The principal mission of the G.I.I.N. is to represent companies to the authorities and to encourage the promotion of their products and services.

CONTACT:

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www.giin.fr

The Burgundy Nuclear Cluster



The PNB, the Burgundy Nuclear Cluster, was founded in 2005 at the instigation of industrial companies and public organizations in Burgundy (the historic heart of French nuclear fabrication) with the aim of creating a coordinating structure. In July 2005 this project was selected by the State as one of the 71 competitiveness clusters and the only one dedicated to civil nuclear.

Set up by ten local stakeholders, the PNB now has over 160 members involved in the French nuclear industry. Its members are manufacturers from Burgundy and elsewhere, major groups, medium-sized companies, research and training organizations.

As a competitiveness cluster, the goals of the PNB are:

- to encourage innovation in SMEs in particular through collaborative research projects that are eligible for public aid,
- to work on setting up training that matches sector expectations,
- to develop synergies and cooperation between its members.

CONTACT:

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1 Avenue de Verdun - BP 60190

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Fax: +33 (0)3 85 42 36 91

www.polenucleairebourgogne.fr

The Franco-Chinese Electricity Partnership Association (PFCE)



The aim of the PFCE is to promote safety and competitiveness in the generation of nuclear electricity through the long-term involvement of French SMEs and intermediate sized companies in the realization of the Chinese nuclear programme, and in particular the establishment of units in China and partnerships between the French and Chinese nuclear industries in the fields of design, manufacture, construction and commissioning, monitoring and maintenance of nuclear power plants for the generation of electricity.

The Franco-Global Electricity Partnership (PFME)

Like the PFCE, the PFME works to develop the nuclear sector in a number of countries around the world (UK, South Africa, USA...).



IAEA	INTERNATIONAL ATOMIC ENERGY AGENCY
AIFEN	ASSOCIATION DES INDUSTRIELS FRANÇAIS EXPORTATEURS DU NUCLÉAIRE [ASSOCIATION OF FRENCH NUCLEAR INDUSTRY EXPORTERS]
AEN	AGENCE POUR L'ÉNERGIE NUCLÉAIRE [NUCLEAR ENERGY AGENCY]
ANDRA	AGENCE NATIONALE POUR LA GESTION DES DÉCHETS RADIOACTIFS [NATIONAL AGENCY FOR THE MANAGEMENT OF RADIOACTIVE WASTE]
ASN	AUTORITÉ DE SÛRETÉ NUCLÉAIRE [NUCLEAR SAFETY AUTHORITY]
CEA	COMMISSARIAT A L'ÉNERGIE ATOMIQUE ET AUX ÉNERGIES ALTERNATIVES [ATOMIC AND ALTERNATIVE ENERGY COMMISSION]
CNEA	CHINA NUCLEAR ENERGY ASSOCIATION
CSFN	COMITÉ STRATÉGIQUE DE FILIÈRE NUCLÉAIRE [NUCLEAR INDUSTRY STRATEGIC COMMITTEE]
EIC	ENERGY INDUSTRIES COUNCIL
FINNUCLEAR	FINNISH NUCLEAR ASSOCIATION
GIIN	GROUPE INTERSYNDICAL DE L'INDUSTRIE NUCLÉAIRE [FEDERATION OF NUCLEAR INDUSTRY ASSOCIATIONS]
IFCEN,	INSTITUT FRANCO-CHINOIS DE L'ÉNERGIE NUCLEAIRE [FRANCO-CHINESE NUCLEAR ENERGY INSTITUTE]
IRSN	INSTITUT DE RADIOPROTECTION ET DE SURETE NUCLEAIRE [RADIOPROTECTION AND NUCLEAR SAFETY INSTITUTE]
ITER	INTERNATIONAL THERMONUCLEAR EXPERIMENTAL REACTOR
JAIF	JAPAN ATOMIC INDUSTRY FORUM
JEF	JAPANESE ENGINEERING FORUM
KHNP	KOREA HYDRO & NUCLEAR POWER
KNA	KOREAN NUCLEAR ASSOCIATION
NIA	NUCLEAR INDUSTRY ASSOCIATION
OECD	ORGANIZATION FOR ECONOMIC COOPERATION AND DEVELOPMENT
OCI	ORGANIZATION OF CANADA NUCLEAR INDUSTRIES
PFCE	PARTENARIAT FRANCE CHINE ÉLECTRICITE [FRANCO-CHINESE ELECTRICITY PARTNERSHIP]
PFME	PARTENARIAT FRANCE MONDE ÉLECTRICITE [FRANCO-GLOBAL ELECTRICITY PARTNERSHIP]
PNB	PÔLE NUCLÉAIRE DE BOURGOGNE [BURGUNDY NUCLEAR CLUSTER]
SMR	SMALL MODULAR REACTORS
UKTI	UK TRADE AND INVESTMENT
US NIC	UNITED STATE NUCLEAR INFRASTRUCTURE COUNCIL
WANO	WORLD ASSOCIATION OF NUCLEAR OPERATORS
WNA	WORLD NUCLEAR ASSOCIATION