It was presented by Catherine Greiveldinger, Director of RTE Sud-Est, to Roger Pizot, Mayor of Saint-Paul-lez-Durance, in the presence of Jerome Pamela, Director of Agence Iter France.

Three Projects Financed by the PAP

In accordance with the objectives of the public service contract signed between the state and RTE in 2005, RTE agrees to establish a PAP developed and managed at a local level, for any new overhead line projects. Thus, the development work on the very high voltage power-line will be strongly mobilized by the WEST platform. The challenge for all these programs, the company is continuously involved in the development of areas crossed during the construction of overhead lines.

Local News

Cadarache Fusion Heads West

The world’s largest tokamak, ITER, is the focus of the International Thermonuclear Experimental Reactor (ITER) program. With 197 countries actively participating in the construction of ITER and the ITER Organization, it has been prepared and fully met all the requirements necessary to start construction of the large ITER research facility without delay. Beforehand, it had been necessary to acquire, service and develop the 150 footwear site. This work was carried out under the responsibility of Agence Iter France (AIF) from 2007 to 2010. It entailed an investment of 155 million euros financed approximately 46% by Europe and 54% by France. More than 146 million euros have also been invested in the regional infrastructure, such as road adaptations between Fos-sur-Mer and Cadarache for the heavy ITER convoy and the construction of an international school in Manosque.

Industrial Opportunities

Since the project started, industrialists and research laboratories of the Member States of the European Union (EU) have actively participated in the development and construction of the components necessary to build the ITER research facility. More than two and a half billion euros of contracts have been issued by various contractors in France and Europe. All the Regional Council, DREAL PACA, ITER Organization and the ITER International Thermonuclear Experimental Reactor (ITER) are representative agencies “Fusion for Energy”. For a national level, the economic benefits are already significant with in January 2013, more than 1,484 million euros have been allocated external funds.

France’s Commitments Respected

On 17th January 2013, the official opening of the ITER headquarters in Cadarache marked an important step for France: the perfect realization of its initial commitment to host ITER in Cadarache. It also signaled the start of a new phase for ITER and Agence Iter France (AIF). Bernard Bigot, General Manager of CEA (Commission for Atomic Energy and Alternative Energies) and High Representative for the realization of the ITER project in France, gave his overview.

The Minister completely understood the importance of the challenge and played a key role in the submitting the French bid working alongside the Prime Minister and the President of the Republic. She, like myself, was immediately impressed by the solidarity and enthusiasm to build a high-quality offer to host the largest international research project of the century. Eleven years later, we can all see how important the mobilization of local, regional and national government representatives, elected officials, businesses and CEA personnel have been for the successful implementation of ITER at Cadarache (Bouches-du-Rhône). Together, they have allowed France to honor its commitments in a timely manner and have completed the groundwork for hosting the project in the host country. France’s participation is particularly important; it involves an investment of nearly 400 million euros as an essential contribution to the construction of the project – in other words, 20% of the European contribution for the period from 2007 to 2013 and approximately 260 million euros of contributions in-kind. The choice of the Cadarache site since June 2005 was a key date in the implementation of European commitments to host ITER in Cadarache. Five years later, in July 2010, the CEA made the site available to the ITER International Organization, it had been prepared and made all the requirements necessary to start construction of the very large ITER research facility without delay. Beforehand, it had been necessary to acquire, service and develop the 150 footwear site. This work was carried out under the responsibility of Agence Iter France (AIF) from 2007 to 2010. It entailed an investment of 155 million euros financed approximately 46% by Europe and 54% by France. More than 146 million euros have also been invested in the regional infrastructure, such as road adaptations between Fos-sur-Mer and Cadarache for the heavy ITER convoy and the construction of an international school in Manosque.

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The world’s largest tokamak, ITER, for the research Institute for Magnetic Fusion (CEA), the ITER program is a powerful engine and key technology to develop the Tokamak Supra research facility in order to conduct experiments to support the ITER research program and the emergence of a regional platform for research, technological development and training the WEST project. The challenge for the research teams of the Institute is to drive a strategic change. This will require the development of partnerships with the research federations, the universities of Aix-Marseille schools, industries and the research departments of CEA to enhance synergies. In addition to these contacts, the Institute also intends to improve its development and international visibility through the formation of new national and international scientific and technology research networks working in collaboration with ITER in Europe, China, Korea and Japan.

The strong, planned until 2016, a number that, in accordance with the wishes of its director Alain Béatrice, the Institute will be strongly mobilized by the WEST project.

The ITER project plan (PAP), which is directly linked to the installation of the very high voltage electricity lines supplying the 400,000 volt substation on the ITER site since January 2013, is currently providing financial support for three projects: another example of a positive effect of the ITER project for the host country.

The support plan is a new example of the positive fallout of the ITER project for any new overhead line projects. Thus, the development work on the very high voltage power-line was strongly mobilized by the WEST platform. The challenge for all these programs, the company is continuously involved in the development of areas crossed during the construction of overhead lines.

The benefits of the ITER power-line

From 2007 to 2010 a handful local and regional companies worked out to order a hundred kilometers long route from the site of ITER to Cadarache. Financed by the Bouches-du-Rhône General Council and the state, the route has involved nearly 400 construction workers under the aegis of the Regional Department of the Environment, Physical Planning and Housing (DREAL). A new step is underway at the request of the ITER International Organization as a part of the organization’s efforts to secure the ITER project site. Initial planning began in 2009. The project, which is expected to cover two hundred very exceptional components is expected in early 2014. Construction will be of unusual height, with some components reaching up to 900 tonnes and 10.5 m in diameter.

INTER Conveyors: Tests and Trials in 2013

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Tests and Trials in 2013

Components is expected to arrive in late 2013, but the first trials are expected to begin before 2014 in a small, but critical area. This is the 100 meter long power line which will be used to power the ITER facility. The power line is expected to come online in the spring of 2014.
TIAL to know how to anticipate and develop visions for the short, medium and long term. The planet will lead to more than a one-third increase in energy demands as of 2030 des-

During the inauguration of the ITER office headquarters, Geneviève Fioraso, Minister of Higher Education and Research and Günther H. Oettinger, European Commissioner for Research, marked the milestone in the construction of the ITER site. It was the culmination of four years of project management, designed by architects Rudy Ricciotti and Laurent Bonhomme. The Welcome Office has welcomed 1 500 men and women joining ITER since 2006, offering services including easier administrative procedures, help to find housing, and educational qualities, and now further develops new options to support the needs of expatriates. More than 130 new employees and their families are expected in 2013.

Construction of the ITER Headquarters 2010-2012

Since 2006, the Welcome Office has welcomed 1 500 men and women joining ITER from all over the world. As part of this mission to welcome ITER employees and their families, the Welcome Office has created a range of personalized services, including easier administrative procedures, help to find housing and accommodation, an international program and French language classes adapted to the needs of expatriates. More than 130 new employees and their families are expected in 2013.

The Welcome Office

Site Preparation and Development 2007-2010

In line with the commitments made by France and Europe, servicing work on the ITER site where the largest fusion research facility in the world is currently being built, began in 2007. She hundred buildings spent nearly 18 months flattening the platform on which all the technical buildings will be constructed. At the same time, over 200 km of hydraulic networks were installed to manage sanitary, industrial and residential waste and nearly 6,000 km of modular offices were erected. Three years later, on July 7, 2010, the hundred hectare developed site was handed over to the ITER Organization on leasehold.

The Welcome Office

Electricity Connected: D-Day

On 27th June 2012, one year after work started, the electricity company Réseau de Transport d’Electricité (RTE) turned on the supply to the high voltage substation on the ITER site. This was the culmination of four years of project management, including 8 months of work to adapt the 400,000 volt line and 12 months to construct the station, with a total budget of 22 million euros.

Biodiversity: 3 of the 4 Measures Carried Out

On 7th November 2012 marked the real start of construction of the research facility, fuelled by the EU’s €3.5 billion investment. The «first plasma» will be achieved by 2023 – 30 years after the start of construction – and the reactor will be in operation by 2050. The tokamak will provide the basis for the development of fusion as a future energy source. ITER’s superconductive magnets. A consortium of building and public works companies (YNCC Construction Gérants Prévôt, Roadea, Deltic Camion Berneix, Campagnol Bernard Sud Est, CDT Sud and Chantiers Modernes Sud), in partnership with a Spanish company (Parque Aguas) will be constructing some 20 technical buildings.

ITER is a promising solution for the future in preparation today

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ITR is a formidable accelerator of talent for the host country and also for all partners in the past 10 years), emphasized that this is one of the largest projects man has ever under-

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