

ADEME & VOUS

International newsletter

No. 31 - Nov.-Dec. 2014

Investments for the Future
Building the society
of the future starts today

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Editorial

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Promoting innovation on an international scale

Innovation and international development often go hand in hand. According to an EU study published in October 2014, 64% of exporting firms developed innovations between 2010 and 2012, versus 43% among their non-exporting counterparts. Initiatives to support business innovation have expanded in recent years, with, in particular, at a European level, the Horizon 2020 framework programme, which has a total budget of nearly €80 billion for 2014-2020. In France, the Investments for the Future Programme (Programme des Investissements d'Avenir) helps, for example, structure and drive forward innovative sectors, particularly eco-business, a field that represents 12,000 companies and over 446,000 jobs. Green French companies have also found success abroad. For instance, the export revenues of companies belonging to Club ADEME International - a network of 130 SMEs and mid-cap companies in the eco-technology sector - have grown by an average of 20% between 2010 and 2014.

These products and services will be showcased at the Pollutec 2014 trade show, which will be held from 2 to 5 December in Lyon, France. Pollutec provides a forum for specialists from across the globe to discuss innovative practices and their experiences in areas such as urban sustainability and sustainable industry. With a year to go before the 2015 UN Climate Change Conference in Paris, the event will also serve as a rallying point for economic stakeholders in the fight against climate change. /



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COP 20 in Lima **A pivotal conference**

Lima, Peru, will host the next Climate Change Conference from 1 to 12 December - a key step toward the adoption of an international post-2020 agreement on climate change.

The summit set to take place from 1 to 12 December in Lima, Peru, is the 20th Conference of the Parties (COP 20) on the United Nations Framework Convention on Climate Change (UNFCCC) and the 10th session of the Meeting of the Parties to the Kyoto Protocol (CMP 10). This leading international conference, held once per year, aims to forge common policies for fighting climate change. The Lima conference represents a key step in moving towards the major commitments expected to be made during the 2015 Climate Change Conference in Paris. Some 12,000 participants and around 1,000 journalists will take part in this pivotal event.

WHY LIMA?

As with Warsaw in 2013, Lima was a carefully considered choice. Peru is one of the ten countries most vulnerable to climate change. 60% of Peru is covered by Amazon rainforest and 71% of the world's tropical glaciers are within the country's borders. If no action is taken, these glaciers could disappear completely within 25 years.

This realisation has led Peru to implement an active policy to contain >>>

>>> environmental damage, in particular by combating illegal gold mining, a scourge that has ravaged the Madre de Dios region in the Amazon basin. If the 195 countries represented at the conference demonstrate this same sense of urgency, they may be able to reach an agreement that will make progress in fighting global warming.

ENCOURAGING SIGNS

Ahead of the negotiations, in October, the EU Member States adopted a new target: reducing greenhouse gas emissions by 40% by 2030. In line with this European agreement, France set ambitious new objectives in 2014 for energy efficiency and fighting climate change in its Energy Transition for Green Growth bill. Targets in the bill include halving energy consumption by 2050, compared with 2012 levels, reducing greenhouse gas emissions by 40% by 2030, compared with 1990 levels, and by three quarters by 2050. Meanwhile, China and the United States signed on 12 November a statement of intent with a number of commitments on climate, and the G20 Summit, on 16 November, mentioned in its final communiqué the need for taking strong and effective action on climate change. Those elements are encouraging for the international climate agenda and plans to adopt an ambitious climate change agreement in late 2015.

REPRESENTING FRANCE

In addition to the official French delegation, a group of members of Club France Développement Durable - a sustainable development network - as well as several other partners from Solutions COP 21 will be traveling to Lima to present relevant business initiatives. For its part, ADEME's participation in the last Conferences was mainly related to technology transfers between developed and emerging countries. ADEME also recently accepted an offer from the French Ministry of Ecology, Sustainable Development and Energy to represent France at the conference as the "national designated entity" for technology.

ADEME'S ROLE, FROM LIMA TO THE PARIS CONFERENCE IN 2015

At COP 20 in Lima, ADEME will present a publication entitled "Addressing climate change - French know-how". The work promotes French know-how in the areas of adaptation to and mitigation of climate change, by presenting proven methodologies and practices both in France and abroad. Throughout 2015, the Agency will be actively preparing for COP21, in particular by presenting technological innovations developed by industry, promoting regional solutions and best practices implemented by public authorities, and rallying citizens around the climate change cause by taking part in the Solutions 21 event at the Grand Palais in Paris. Through these efforts, ADEME will provide public and private stakeholders in France with solutions for reducing their greenhouse gas emissions (GHG). /

www.cop20.pe
http://unfccc.int/meetings/lima_dec_2014/meeting/8141.php

FEEDBACK /

R20 cooperation agreement - ADEME

ADEME signed a cooperation agreement with R20 Regions of Climate Action at the World Summit of Regions for Climate in October. R20 is an NGO that unites sub-national governments, private companies, international organisations, NGOs and academic and financial institutions in the fight against climate change. The agreement aims to develop avenues for exchanging information and experiences on issues of mutual interest such as climate, energy efficiency and renewable energies. It also seeks to facilitate the creation of joint, cooperative or coordinated projects on these issues in Mediterranean countries, Africa and major emerging nations.



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Investments for the
Building
of the future

The French government created the Investments for the Future Programme (Programme des Investissements d'Avenir) in order to encourage the development of promising technical innovations. Since 2010, ADEME has overseen work on several of the programme's thematic priorities.

ADEME maintains a wide scope of action in the Investments for the Future Programme. The Agency is involved in work in low-carbon energies, green chemistry, the future of vehicles and mobility, smart grids and the circular economy. Its aims are equally far-ranging. ADEME is responsible for backing experiments during the pre-manufacturing phase,



Future the society are starts today



demonstrators and industrial innovations designed to ramp up the energy and ecological transition. *"The innovations are ambitious"*, confirms Benjamin Stremsdoerfer, Deputy Director of Investments for the Future Directorate. *"Each project represents an investment in the tens of millions of euros. With 602 applications submitted and 146 selected projects, the programme has demonstrated its ability to attract companies from forward-looking sectors."* In fact, 85% of the funding has been awarded to companies, with over 50% going to micro-businesses, SMEs and mid-caps. ADEME's role goes beyond financial backing – the Agency issues calls for expressions of interest guided by strategic roadmaps.

THE MEANS TO SUCCEED

"These programmes cover about 20 key areas central to the energy and ecological transition," adds Jean-Guillaume Péladan, Director of Investments for the Future Directorate. Ten of these areas fall under the "Demonstrators and technological platforms for renewable and low-carbon energies and green chemistry" programme, which has been allocated €1.125 billion in funding. Out

of this total figure, €950 million have been invested in promoting the development of innovative, sustainable technologies and solutions for land and sea transport. €210 million have been earmarked for the circular economy, which covers aspects of waste (from collection to recycling or recovery) and industrial ecology, as well as remediation of sites, soil and sediment. The remaining budget of €165 million is reserved for smart grids.

The initial results confirm that Investments for the Future is indeed stimulating innovation. Across all the project areas, the initiative has had a particularly critical impact on emerging industries such as concentrating solar power, hydrogen-based storage solutions, marine energy, new recycling methods and pioneering mobility services.

A QUESTION OF MATURITY

Investments for the Future is also providing a boost to industries in the building phase, with established players, such as upstream and downstream photovoltaic power, geothermal power, electric vehicles and their charging infrastructure. In all these areas, the programme is serving as a catalyst for the structural development already underway. It is also driving the market shift in fast-changing industries like vehicle hybridisation and upstream energy management. The programme's impact on slower-moving fields – ships of the future, rail, building refurbishment and energy management – will be measured over the long term.

Not only is the Investments for the Future Programme stimulating innovation in a major way, it also represents an important lever for economic and social development. Over 10,000 direct jobs are set to be created by 2020 in the first participating companies, and the revenue generated by research within the programme is already estimated at more than €10 billion. /



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Go further

HELPING COMPANIES TO ESTABLISH INTERNATIONAL OPERATIONS

ADEME is backing several international projects as part of the Investments for the Future Programme. Two of these initiatives, the MICROSOL and CROME projects, are developing micro-scale solar centres for rural electrification and battery charging technology to promote electric mobility, respectively. The programme is also supporting several solutions that should find a market outside France, including the range of solar trackers developed by Exosun and McPhyEnergy's technology for storing hydrogen in solid form.



Profiles of these projects can be found on www.ademe.fr.



Building sector French-Japanese efficiency

ADEME has worked with NEDO* since 2009. The two organisations met in Tokyo on 22 and 23 October to discuss a current challenge: improving energy efficiency in the building sector.

The partnership between ADEME and NEDO is more relevant than ever. "Since the accident at the Fukushima power plant in April 2011, Japan has drastically reduced its reliance on nuclear energy and is searching for solutions that will enable it to end nuclear power generation all together", says Nicolas Dyèvre, who heads cooperation between industrialised countries at ADEME's International Action Department. "The proof can be seen in nuclear power consumption, which dropped from 288.2 TWh in 2010 to 163 in 2011 and 187 in 2012, with long shutdown periods at all plants. Meanwhile, Japan is developing solutions to improve energy savings, an issue that has recently come to the fore in France with the Energy Transition for Green Growth bill. For the two organisations debating the topic, the day of discussion on these issues was therefore timely", adds Nicolas Dyèvre.

SHINING THE SPOTLIGHT ON FRENCH INNOVATION

One of the focuses of the meetings between ADEME and NEDO was energy efficiency in the building sector. "This topic was chosen for a reason", stresses Nicolas Dyèvre. "The building sector is an area with the potential for major energy savings." The event was organised in two parts: first the institutional discussions, then the presentation of promising French and Japanese technical solutions. "The initial discussions provided an update on how Japan and France plan to implement their energy efficiency policies", explains Nicolas Dyèvre. "Later, companies with globally recognised expertise on the issue - including Bouygues, Saint-Gobain and EDF - presented their latest research findings", adds Maeva Tholance, a specialist in high-performance buildings at ADEME. "But we also wanted to provide an opportunity for innovative SMEs such as Erie, Enersens, Parex and Syrthea, which were able to share their own technical solutions."

The event also provided a forum to present three technologies support by ADEME as part of the Investments for the Future Programme:

- the CRIBA project, which enables building renovation on an industrial scale through the use of a prefabricated envelope made of wood and steel that can be affixed to any type of facade;
- the IBIS project, which uses bio-sourced insulation (including crushed hemp, sunflower, rapeseed and flax) to renovate old buildings;
- the VIPeR project, which develops interior thermal insulation with vacuum insulated panels.

* New Energy and Industrial Technology Development Organisation.



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www.nedo.go.jp/english

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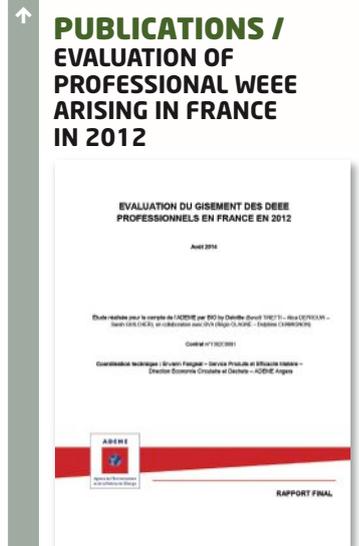
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This survey, which follows on from the survey on household and similar WEEE arisings undertaken by OCAD3E and ADEME in 2013 by BIO, sets out to answer the following questions: What quantity (tonnage) of professional WEEE was generated in France in 2012? How do businesses and local authorities manage their professional WEEE, and which collection and recycling channels are used for such flows? What actions would increase knowledge on professional WEEE arisings and increase collection rates as well as the quality of treatment?

French and English versions

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TO ATTEND /

**1 - 3 July 2015
SECOND INTERNATIONAL
DAYS OF THE SOCIOLOGY
OF ENERGY
TOURS, FRANCE**

This conference will bring together researchers in the social sciences whose work pertains to social phenomena related to energy. Participants will include sociologists working in various disciplinary fields, researchers who use sociological approaches to studying energy, and professionals interested in the social aspects of energy.
www.ademe.fr/manifestations

**30 Nov. - 11 Dec. 2015
COP 21 CLIMATE
CONFERENCE
PARIS LE BOURGET**

The Climate Change Conference (COP 21), to be held in Paris in December 2015, will host nearly 50,000 international stakeholders and delegates.
www.ademe.fr/manifestations