

The energy transition
into actions

P. 1

FOCUS

The International Solar Alliance

P. 2

EXPERTISE

Investments for the Future programme: assessment

P. 4

WORLDWIDE

MEDENER: improved dynamics



EDITORIAL

Although energy use is the biggest contributing factor to climate change, 1.1 billion people around the world still don't have access to electricity and 2.8 billion people don't have access to safe and clean cooking equipment, especially in Sub-Saharan Africa. The fight against climate change in those countries is thus closely linked to development issues. A number of international coalitions were created in the last few years in the follow-up to COP21 in order to meet this challenge: the Africa Renewable Energy Initiative, which aims to increase the capacity for renewable energy in Africa by 10 GW by 2020; the International Solar Alliance, whose mission is to sharply reduce solar power costs and encourage its large-scale growth in the various countries of the intertropical zone; the Mission Innovation initiative, which aims to double public R&D investments in clean energy over 5 years in the twenty or so member states. As part of this initiative, France and India are leading an "Innovation Challenge" on access to off-grid renewable energy, which led in France to the 2017 launch by ADEME of a call for projects focused on innovation in regard to access to energy. Several actors in France - businesses, NGOs, local authorities - have actively taken part in this initiative and ADEME will carry on these actions throughout 2018 to support and strengthen this sector.

FOCUS

THE INTERNATIONAL SOLAR ALLIANCE

The first summit of the International Solar Alliance (ISA), launched by India and France during COP21, was held on 11 March 2018 in New Delhi in the presence of the French President Emmanuel Macron and the Indian Prime Minister Narendra Modi.

60 countries have already agreed to join their efforts to encourage the use of solar power in solar resource rich countries of the intertropical zone.

In response to the double-challenge of the high energy demand of developing countries and the fight against climate change, the large-scale use of solar power certainly seems to provide an attractive solution, especially given the fact that the regions that do not have the necessary financial resources to implement this tend to enjoy a large amount of sunlight year-round. The International Solar Alliance aims to combine the demands for funding, technologies and innovation across the 121 intertropical countries in order to facilitate the deployment of 1,000 GW of solar generation capacity and 1,000 billion dollars of investments in this sector by 2030.



FOCUS



OVER 100 PROJECTS IDENTIFIED

"An inclusive approach has enabled the identification of 100 projects linked with the 5 programmes of ISA from the 23 countries who answered to the call for expressions of interest," said Cécile Gracy, International Climate Initiatives Project Officer at ADEME.

The programme "scaling solar applications for agricultural uses" aims to improve yields and economic benefits by bringing about reliable solar power solutions adapted to the needs of and accessible to all farmers. Regarding the "solar mini-grids in islands and villages" programme, the aim is to replicate commercialisation models, adopt common standards and launch requests for proposals for the installation of these mini-grids. The programme "scaling rooftop solar" promotes the development of solar photovoltaics using roof panels and tackles obstacles to its deployment. The innovative topic of solar-powered mobility (roads and vehicles, public transport...) seeks to develop these solutions by sharing the various needs to implement them. The last programme concerns the affordable access to funding. Over 20 heads of states were joined by representatives from 58 countries, international organisations, development banks, private sector and civil society in order to improve efforts to make solar power affordable and accessible to all. 100 priority projects were selected for the first phase of funding. ADEME introduced exemplary projects conducted in partnership in a number of West African countries, as well as projects singled out as part of the "Innovation for access to off-grid renewable energy" call for project proposals. This latter was launched in the context of the Innovation Challenge led by France and India for Mission Innovation and resulted in the selection of 9 projects that will benefit from funding. A number of Club ADEME International members also applied to present their innovative initiatives and solutions to support the large-scale development of solar power.

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Boxed Text

ADEME IN WEST AFRICA

ADEME has been involved for three decades in issues pertaining to access to energy and solar power development in Africa, alongside a number of partners. ADEME has thus taken part in 2004 in the creation of The African Association for Rural Electrification - CLUB-ER and it supports several projects in Africa: mini-grids in a number of West African countries and Madagascar, solar-powered pumps and rural electrification in Senegal, "Cafes Lumiere" in Benin, street lighting in Cameroon with the Network of Locally Elected Women - Cameroon, training centres in Mali and Burkina Faso...

EXPERTISE

RESEARCH AND INNOVATION

INVESTMENTS FOR THE FUTURE PROGRAMME: ASSESSMENT

Since 2010, the Investments for the Future programme, spearheaded by the General Investment Commission and run by ADEME, has encouraged and boosted investment in innovation amongst key economic actors of the energy and ecological transition.

In 2010, the government introduced the Investments for the Future programme (PIA). Its aim was to boost innovation and investment in France. Thanks to its technical, economic and financial expertise in the complex markets of the energy and ecological transition, ADEME was chosen as the managing organisation of two crucial actions of this global programme: "Démonstrateurs de la transition énergétique et écologique" (Demonstrators of the energy and ecological transition) and "Véhicules et transports du futur" (Transport systems and vehicles of the future). The aim is to fund and support, through calls for project proposals (CPP), initiatives by French companies to put on the market innovative solutions in favour of the energy and ecological transition.

GREEN GROWTH CATALYST

Over the past seven years, the PIA has demonstrated its ability to get companies to invest in growth markets. In fact, the 85 CPPs have helped 745 projects see the light of day, with a total sum of 2.5 billion euros in financial support from ADEME. And small and medium enterprises are not to be outdone! As drivers of innovative solutions and growth (they make up 35% of France's turnover), SMEs are invaluable to the national economy. They also make up 45% of the beneficiaries of the PIA. ADEME has in fact provided them with a level of support adapted to the particular constraints they face thanks to its SMEs initiative IPME with its straightforward calls for project proposals and quick instruction and decision process (less than 2 months), as well as up to 200,000 euros in grants. 322 projects have thus benefited from support, with a total amount

→ *Going further*

PIA 3: updates and prospects

The third investment for the future programme (PIA 3 2018-2020) aims to further speed up the international commercialisation of solutions developed by French companies. ADEME is once again responsible for managing the project in terms of energy and ecological transition. With an allocated 1 billion euros, the PIA 3 is structured around three key programmes:

- “Démonstrateurs et territoires d’innovation de grande ambition” (Demonstrators and “ambitious innovation territories”) - a public initiative through which the Caisse des Dépôts is tasked with funding innovative projects in a number of urban and rural territories - which aims to develop energy transition demonstrators and to fund through their own capital innovative infrastructures. 8 calls for project proposals will run up until 2019.
- “Concours d’innovation” (Innovation competition), jointly organised with Bpifrance and as part of the ADEME’s IPME set-up. The first wave of CPPs closed on 13 March 2018 and the second one is planned for June 2018.
- “Accélérer le développement des écosystèmes d’innovation performants” (Accelerating the development of efficient innovation ecosystems), exclusively dedicated to transport and sustainable mobility, targets cooperative projects which bring together companies and research institutes. Their first CPP closes in December 2018.

> For more info, go to: <http://www.ademe.fr/actualites/appeles-a-projets>



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“The PIA has had a major leverage effect: 1 euro from the PIA has been able to fund 3 euros of the project’s cost.”

of financial aid of around 60 million euros. The new PIA 2018-2020 (see boxed text) also includes a new “Concours d’innovation” (Innovation Competition) programme, which is part of the IPME set-up and is tailored to the specific needs of SMEs and startups by making the funding process for their projects both easier and more flexible.

PROMOTING INNOVATION INTERNATIONALLY

The Club ADEME International, which celebrated its 20th anniversary last November, is a network of 140 innovative French eco-businesses that includes a large number of SMEs rewarded by the PIA. The aim is to help boost French expertise internationally by bringing together public and private sectors (Business France, Direction Générale du Trésor (French treasury) and the Ministry for the Ecological and Inclusive Transition) to better address global environmental and climate change challenges.

The Club ADEME International has also allowed the establishment of 25 consortium according to a geographical region and/or a theme to build an efficient response to the needs of international

markets. They have for example addressed the issue of access to energy in Africa by pairing up desalination with solar energy supply (Akuo Energie and Mascara NT) in Cape Verde or putting together a circular economy initiative for an eco-lodge in Tunisia (Green Research and Cohin Environment). The Club is one of the partners of the Alliance for efficient solutions launched by Bertrand Piccard’s Solar Impulse Foundation, whose aim is to identify 1,000 innovative solutions to tackle climate change by COP24.

It is worth noting that the export turnover of the Club ADEME International’s members has increased on average by 20.6% in 2016. One of its members, Sunna Design, a solar lighting specialist for developing countries, won the Zayed Prize 2018, which rewards innovation in the renewable energy sector, at the World Future Energy Summit held in Abu Dhabi last January. The winning company was awarded \$1.5 million in funds. The Club also provides French innovative initiatives with a good opportunity to feature at major international events in order to help present and adapt these initiatives to the international demand and develop lasting partnerships.



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To find out more:
> <http://www.ademe.fr/bilan-2010-2017-programme-dinvestissements-davenir-pia>
<http://clubinternational.ademe.fr/>



MEDENER

IMPROVED DYNAMICS

MEDENER, the Mediterranean Association of the National Agencies for Energy Conservation, has drawn on the expertise of its team to speed up the energy transition in the Mediterranean region.

During the annual meeting of the Euro-Mediterranean energy platforms, which was held in Barcelona on 31 January and 1 February 2018, as part of the Union For The Mediterranean, MEDENER stressed again the urgency of speeding up the energy transition in the Mediterranean region. According to the energy transition scenario by 2040 drawn up by MEDENER, ADEME and the "Observatoire méditerranéen de l'énergie" (Mediterranean Observatory of Energy), primary energy demand from Southern Mediterranean countries could increase by 85% by 2030, overtaking the North. Major savings are nevertheless possible, especially in the building sector, which makes up for more than a third of final energy consumption in the Southern Mediterranean countries.

IN RESPONSE TO INCREASING DEMAND, A LOW-CARBON ECONOMY

Air conditioning and cooling are already responsible for energy peaks and occasional black-outs and their use is going through an exponential growth - multiplied by 2 in Algeria in 10 years, by 5 in Tunisia and by 10 in Morocco.

MEDENER is committed to supporting efforts made by the various countries to rely on a low carbon economy, via an ambitious project - "Mitigation Enabling Energy Transition in The Mediterranean Region" - supported by the European Commission. The aim is to increase the share of renewable energies and energy efficiency in the region and support the implementation of a Euro-Mediterranean platform for energy efficiency and renewable energies. The purpose is to create regional networks of experts to reinforce public policies and relevant operational programmes, to develop local skills and to ensure a significant impact upon the local economy. The general coordination of the project was given to MEDENER, in partnership with the Regional Center for Renewable Energy and Energy Efficiency (RCREEE). ADEME will draw upon its own expertise to set up an observatory to monitor energy efficiency, the construction of low carbon and bioclimatic buildings and the distribution of innovative equipment.

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News

PUBLICATION

Export Catalogue 2017-2018 Technologies and services of French ecocompanies



The Club ADEME International export catalogue details the activities, references and export contacts of its members. With its 135 subscribers, the Club ADEME International covers the environment and energy sectors. The aim of this document is to promote French companies and ecotechnology to a large audience of international decision-makers in order to support their exporting efforts.

Ref. 010282 (French) and 010283 (English)

> Downloadable for free at:
http://www.ademe.fr/sites/default/files/assets/documents/export-catalogue-2017-2018-technologies-french-ecocompanies_010283.pdf

REVIEW OF...

KITA, the largest solar farm in West Africa

Last October, Mali's Prime Minister Abdoulaye Idrissa Maïga, the Minister for the Ecological and Inclusive Transition Nicolas Hulot and the President of the Constitutional Council Laurent Fabius celebrated the inauguration of Kita, a 50 MW solar farm in Mali. A few weeks later, the foundations were laid. It's worth noting that aside from its ecological scope, this project boasts a number of other important aspects: educational (through the parallel construction of a school), agricultural (with its 7 equipped and irrigated hectares - 17 acres) and social aspects (with its associated job creation).