

"Africa Smart Grid Forum 2014"
FROM 14 TO 16 MAY 2014
ABIDJAN (CÔTE D'IVOIRE)

Smart Grids are public electrical grids that include ITC (information and communication technologies) functions. The objective is to ensure a balance between electricity supply and demand at any time and to offer consumers a safe, sustainable and competitive electricity supply.

Until now this indispensable balance was achieved by matching production to consumption. Today we tend towards a system where adjustment will be done also at the demand level. Consumers will progressively become "prosumers". During consumption peaks for example, they will be encouraged to postpone their consumption.

This «**Smart Grid**» approach is therefore going to modify **in depth** the interaction and the **communication** between various **stakeholders**

- *Energy suppliers* ;
- Energy transportation and distribution *network managers* ;
- *Consumers* (communities, commercial buildings, individuals);
- Actors in the field of *telecommunications and ICT* (for data exchange and storage between all systems and actors).

Thus all is linked : smart buildings and smart cities will only be "smart" as long as they are in infrastructure networks which are dimensioned and adaptable to future energy consumption and production modes, in other words with Smart Grids.

Further, the introduction of new technologies in the processes of billing and collection, operation and maintenance, will bring substantial changes that need to be controlled when managing electricity, water, gas, etc.

Smart Grids for whom, why and what for? What are the technological barriers to the development of Smart Grids? Which investments are necessary to deploy these solutions? How to manage the decision-making hierarchy between all stakeholders? Which standards are applicable to these networks? What will be the benefits for Africa?

To exchange on this "Smart" information, **CIE** (Compagnie Ivoirienne d'Electricité), **CODINORM** (Côte d'Ivoire national standards body), **AFSEC** (African Electrotechnical Standardization Commission) and **APUA** (Association of Power Utilities of Africa) are organizing the first International « **Africa Smart Grid Forum 2014** » from 14 to 16 May 2014 in ABIDJAN, Côte d'Ivoire.

The event will be held in collaboration and partnership with the **IEC**, **CENELEC**, **DKE**, **State Grid Corporation of China**, **KATS** (Korean Agency for Technology & Standards) and **AFREC/AU** (African Energy Commission of the African Union).

Objective of the conference

The conference aims to inform and share experience on:

- Technological shift towards Smart Grids
- Evolution of regulations and standards inherent to Smart Grids
- Issues and profits from producer to consumer
- Performance of the public Smart Grids for electricity distribution
- Solutions provided by enterprises and suppliers

The conference will help African experts and managers to build their capacities regarding Smart Grids in view of developing a strategy for African countries to become emerging economies.

The forum will address topics both upstream and downstream of the smart meter, electricity production, transportation and distribution, demand side management, energy storage as well as consumer services.

It will also give suppliers the opportunity to exhibit their equipment and share their solutions.

Expectation

The Forum will provide a review of what already exists while tracing the way forward, its impact is expected to span the whole African continent. As a result, the Forum aims to issue a set of measures, proposals, decisions that will be useful for operators, equipment suppliers, regulators and governments.

Target audience

The forum targets decision-makers, regulators, investors, experts and suppliers of solutions from various industries.

Over 300 international and national participants are expected and more than twenty exhibitors will display their expertise, know-how and new products.

Conference documents

Participants will receive a personal badge and conference documents at the registration desk.

Before conference start, participants will receive a briefing outlining each session topic and summarizing the presentation messages. All presentations will be available on the Forum and AFSEC websites.

After the Forum, all documentation will be updated and the results as well as an overview of the discussions during the interactive forum will be added.

This version will be available to all participants.

Forum languages

The conference will be held in English and French.

Forum location

The Forum will be held at the Sofitel Abidjan **Hotel Ivoire**, COCODY in Abidjan.

Located by the lagoon, it offers a modern complex perfectly equipped to host big international events.

The hotel has a congress hall with:

- 1 auditorium for 1600 participants
- 3 conference rooms
- 10 rooms for business meetings
- 1 exhibition hall of over 3000 m²

Registration and information desk

The information and registration desk will be open as follows :

Wednesday 14 May 2014 : 15 :00 – 18 :00

Thursday 15 May 2014 : 8:00 - 18:00

Friday 16 May 2014 : 8:00 – 17:00

Exhibition

The exhibition area is located near the Congress Hall of the Hotel Ivoire.

Exhibition spaces anywhere from 9 m² to 27 m² and beyond are available.

Exhibition time :

Wednesday, 14 May : 16:00 – 21:00

Thursday 15 May: 9:00 – 18:00

Friday 16 May: 9:00 – 17:00

Access to Internet

Free access to Internet is available via Wi -Fi in the conference area.

Forum Presidency:

Minister of Industry and Mines and Minister of Oil and Energy;

Seeking the High Patronage of the Prime Minister or the President of the Republic.

SPONSORS: Diamond, Platinum, Gold and Silver

Through this participation, the sponsor backs an international event that brings together professionals from the Smart Grid sector, development partners, research institutes, and universities. This backing will give the company a high level of visibility during the event and allow it to be seen as a key contributor to the development of the African continent.

Sponsoring & visibility	Diamond 60 000 €	Platinum 45 000 €	Gold 30 000 €	Silver 15 000 €
Free registration to the Forum	8	6	4	2
Ceremony and speeches				
Mention during the opening ceremony				
Mention during the cocktail				
Mention during the gala dinner				
Mention during the closing ceremony				
Advertisement (Forum programme)				
Logo on cover page				
Full colour page				
Full colour half page				
one page				
Third or fourth cover page				
Advertisement (News)				
Logo on first cover page				
Full colour page				
Full colour half page				
one page				
Logo on promotional material (printed)				
Badge				
Forum briefcase				
Outdoors (panels)				
Indoors (on site)				
Forum website				
Exhibition catalogue				
Newsletter				
Forum gazette				
Invitation card				
Signboard				
Logo on promotional material (audio-visual)				
Mention in TV spots				
Mention in radio spots				
Distribution of a video advertising message				
Distribution of video thank-you messages				
Company logo and sign on Forum site (provided by the company)				
Company logo and sign on the way to the gala dinner				
Promotional material in the Forum briefcase				
Company logo on all promotional material developed for the Forum				
Company logo on the Forum website				
Invitation to the gala dinner	10	8	6	4
Promotional give-aways included in the Forum briefcase				
Exhibition stand				
Turnkey exhibition stand in prime location	27 m2	18m2	12 m2	9 m2

Specific sponsor offers:

Event number	Types of sponsoring	Date	To be defined (€)	Visibility
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1	Lunch	Thursday 15 May	4 000 €	<ul style="list-style-type: none"> • Distribution of flyers • Presence of banner advertising • Non-stop projection of commercial film • Mention of sponsor name during opening and closing ceremonies
2		Friday 16 May	4 000 €	
3	Transport of delegates	Wednesday 14 May	1 000 €/bus/day	<ul style="list-style-type: none"> • Sponsor logo on sides and back of the buses • Distribution of flyers
4		Thursday 15 May	1 000 €/bus/day	
5		Friday 16 May	1 000 €/Car/Jour	
7	Gala dinner	Thursday 15 May	5 000 €	<ul style="list-style-type: none"> • Distribution of sponsor promotional documentation • Presence of banner advertising • Distribution of flyers • Mention of sponsor name during opening and closing ceremonies
8			20 000 €	<ul style="list-style-type: none"> • Distribution of promotional documentation • Presence of banner advertising • Distribution of flyers • Mention of sponsor name during opening and closing ceremonies • Non-stop projection of commercial film • 5 min speech from sponsor
9	Technical session room & translation	Thematic Session	5 000 €	<ul style="list-style-type: none"> • Distribution of sponsor flyers during the session • 3 min speech from sponsor to present its products at the beginning of the session • Presence of banner advertising
10	Financing of participation of young professionals (YPs) in the Forum	National	500 €/YP	<ul style="list-style-type: none"> • Mention of sponsor name during opening and closing ceremonies
11		International	2 500 €/YP	<ul style="list-style-type: none"> • Logo on all promotional material made for the Forum • Mention of sponsor name during opening and closing ceremonies • Distribution of flyers
12	Financing of participation of pupils and students for technical sessions and conferences		400 €/Person	<ul style="list-style-type: none"> • Distribution of flyers
13	Badge lanyard		3 000 €	<ul style="list-style-type: none"> • Badge lanyard with sponsor name
14	Daily plenary session (Opening/Closing)	15 and 16 May	5 000 €/session	<ul style="list-style-type: none"> • logo on all promotional material made for the Forum • Mention of sponsor name during opening and closing ceremonies • Distribution of flyers
15	Forum programme and exhibition catalogue		15 000 €	<ul style="list-style-type: none"> • Mention on 2nd cover page in programme • Mention of sponsor name during opening and closing ceremonies • Flyers in Forum bag • Full colour half page in news
16	unmanaged stand	14 au 16 mai		Will be defined with a provider.
	Stand equipped			

Africa Smart Grid Forum 2014

Draft programme

Wednesday 14 May 2014		
16:30	Opening ceremony / Exhibition and welcome party	
Thursday 15 May 2014		
08:30	Coffee break	
09:00	Keynote speakers	
12:15	Lunch and exhibition	
13:30	Session A1: Evolution of the means of production	Session B1: Smart Grid and ITC
15:30	Coffee break	
16:00	Session A2 : Evolution of smart transportation systems	Session B2: Smart Grid and consumers
18:00	Transfer	
19:00	Smart Grid Africa Gala	
23:00		
Friday 16 May 2014		
08:30	Session A.3 : Development of distribution network	Session B.3 : Smart Grid in the city
10:45	Coffee break	
11:15	Interactive session	
12:15	Lunch and Exhibition	
13:30	Plenary Session	
15:30	Coffee break	
16:00	Smart Grid Forum Africa 2014 Wrap up and conclusions	
17:00	Closing	

Exhibition

Exhibition

Themes or topics

Keynote presentations and plenary session

- Message from the African Union on the objectives of Africa in terms of development of economic infrastructures taking Smart Grid into account;
- Design of Smart Grid, current situation and evolution by Richard Schomberg IEC; 20 min;
 - Understanding the needs of Africa and overview of IEC Smart Grid System Committee
 - Status of standardization in the field of the Smart Grid
- Renewable energy and energy efficiency roadmap for Côte d'Ivoire (DGE/CI-Energies);
- Vision, challenges, opportunities and evolution of Smart Grids in China;
- Implementation of Smart Grids in South Korea;
- Implementation of Smart Grids in African countries (Djibouti, South Africa, Egypt);

- Issues, challenges and perspectives of electrical system operation, case study from Côte d'Ivoire (Mathias/ Bakayoko);
- What institutional and regulatory frameworks are needed to take Smart Grid into consideration (case studies from Europe/Korea);
- Status and vision of Smart Grids by Power Pools 15 min;
- Smart Grid standardization and technology watch;
- Technical requirements and stakeholder involvement in the integration of fully or partially automated systems.

A1 - Evolution of production means in the context of Smart Grids

- Integration of intermittent generation in power systems in Africa;
- Integration of large-scale renewables in the energy mix (methods and techniques) (China/SAC);
- Consideration of isolated or small scale generation in networks.

A2 - Evolution of smart transportation and distribution systems

- Build a Smart Grid starting from the beginning and avoiding obsolete technologies;
- Network extension strategies, considering regional requirements (Tunisia?);
- Transportation of electricity over long distances / UHV AC / DC;
- Safety of electrical lines (Russia);
- How to ensure better stability and reliability of transportation and distribution networks?

A3 - Development of distribution networks

- How to optimize the management of distribution networks to limit losses, proper monitoring networks at the best cost (e.g. operating diagram) and prevent incidents;
- Feedback on the implementation of Smart Grid results, advantages and disadvantages (e.g. by country);
- Examples of significant improvement in network architecture by introducing smart distribution system;
- Sample analysis for preventive maintenance and operational planning techniques;
- Data Analysis and Smart Grid system for improving the quality of supply (END = Energy Not Supplied/ SAIDI = System Average Interruption Duration Index).

B1- New ITC and Smart Grids

- Specifications , standards and communication protocols to be mastered;
- Architecture of communication networks adapted to Smart Grids;
- Get organized to meet new challenges with the introduction of new information and communication technologies on distribution networks;
- Security of personal data, privacy management.

B2- Smart Grid and consumers

- Smart Grid and the elimination of fraud or non-technical losses in distribution networks;
- Smart Grid, smart meters or the emergence of “prosumers”;
- The issues of regulation of Smart Grids and smart metering, between consumer protection and the need for technological migration?

B3- Smart Grid in the city

- What is the point for industry and buildings to invest in Smart Grid technologies (benefits, costs / profits arbitration);
- Development of Smart Grid for other networks: water, gas, district heating, waste management , transportation, lighting?
- Challenges and opportunities of the introduction of electric vehicles for electrical companies.

Welcome party and opening of the exhibition

Participants and accompanying persons of ASGF 2014 are cordially invited to the welcome reception which will take place on Wednesday 14 May 16:30 - 21:00 in the exhibition area.

ASGF party

The Forum gala dinner will take place on Thursday 15 May from 19:00 - 23:00 at Sofitel Abidjan **Hotel Ivoire**.

A transfer by bus from the hotels to the event will be organized.

Participation to all events is included in the registration fee. Additional tickets for accompanying persons can be ordered via the registration form, providing deadlines are respected and subject to availability.

Registration

Registration fee includes admission to all sessions as well as coffee breaks and lunch each day, documents and ASGF gala dinner on Thursday 15 May 2014.

	Before 24 April 14	After 25 April 14
Member IEC, CENELEC, AFSEC, CODINORM, APUA	300 €	400 €
Non member	450 €	550 €

Payment

Registration fee, including bank charges and processing fees must be paid in Euros.

The registration fee must be paid in full in advance. The receipt for registration will be sent once payment has been received. Accepted methods of payment include:

Bank transfer to account number xxxxx; or

Upon arrival: cash payment in Euro (€) at the registration desk.

Cancellation

Prior to 24 April via written notification: full refund of registration fee minus a processing fee of 60.00 Euros. Written notification is to be sent to: Service xxx –
After 25 April 2014, no refund will be possible.

Insurance

The organizers cannot be held liable for any damage, loss or theft of personal effects of participants or any self-sustained injuries in or outside the Forum premises. Participants are kindly asked to arrange for their own insurance.