

## Greetings from President Mr Dominique DESMOULINS

Dear Directors, dear members and partners,  
I wish you and your loved ones and your families a very happy new year filled with joy, happiness, beautiful surprises, and good health.  
For Fisuel, I wish us to reach our goal of generalizing a progression of the safety of the users of electricity in the world thanks to the dynamics launched during our last Board of Directors in October in Paris.

We have, during this year 2017:

- Realized a GAM of very high quality in Bali
- Reinforced the Board of Directors with the leaders of the Working Groups
- Set strategic directions for 2017/2020

For the year 2018, the following actions will have priority:

- Maintain a high quality GAM level in Abidjan based on exchanges of good practices
- Complement it with a specific concrete action that will be this year around the electrical and economic security of a market
- Delegate to the VPs and leaders the deployment of the action plan in the WGs
- Get a dynamic participation of each member whether economic, technical or political to ensure the sustainability of our organization and facilitate its progress towards excellence.

All of these actions will strongly contribute to a progress of the electrical safety in the world.



*Dominique Desmoulins. President of FISUEL*



## **Mr Moonyeong Bak - Asia Pacific WG leader**

Moonyeong Bak, working for KESCO in Korea, was appointed the leader of Asia-Pacific WG in place of James Kwangsu Kim at the Board of Directors held in France on October 2017.

He will cooperate with FISUEL members, as James Kwangsu Kim, who has faithfully fulfilled his responsibilities as an Asia-Pacific WG leader so far.

Based on KESCO's many projects with ASIAN countries, FISUEL's goal will be introduced to KESCO's partners with Mr Muliando Gultom from KONSUIL.

He believes that electrical safety is one of the most active welfare states and that everyone has the right to benefit. He will make every effort to realize it.

*Moonyeong Bak - leader of the Asia Pacific WG*



# Fisuel Guidelines for Working Groups – 07/2017

## 1) **Scope**

The scope is first Residential then Tertiary and Industry.

## 2) **Actions plan**

The 2017-2020 orientations for FISUEL are summarized in 2 points:

- Access to electricity for everyone, in the world safely
- FISUEL is the world reference for Electrical Safety
  - a. Functionning**
  - The WGs are under the responsibility of the zone manager
  - Update the experts (members of FISUEL or non-members) by WG
  - Define the schedule of meetings each year.
  - b. Main Responsibilities**
  - Elaborate an action plan in line with the strategic orientations of FISUEL and the context of the zone
  - The action plan is validated by the zone manager and sent to the General Delegate
  - the Board of Directors will be informed
  - c. Framing**
  - Define the contributions of the different players in the electrical sector in the context of electrical safety (standardization, installers, builders, controllers, utilities, etc.)
  - Define the mapping by country of the general rules related to electrical installations:
    - o access to the profession of electrician,
    - o qualification and skills of companies,
    - o applicable regulations and standards,
    - o different inspection and control systems for the new and existing
  - Detect actions, best practices and local communications that contribute to:
    - o the safety of new and existing electrical installations,
    - o the fight against unfair (non-compliant, dangerous products and counterfeiting),
    - o the skills and qualifications of the installers
    - o statistics (electrical installations, accidents and fires with electrical sources)
  - Determine how FISUEL can provide added value for access to electricity in slums
  - Extend the electrical safety characteristics in the context of electrical extensions on electrical installations:
    - o photovoltaic system,
    - o power supply for electric vehicle,
    - o energy storage,
    - o lightning and surge protection,
    - o traceability, etc.
  - Describe the expectations of members of FISUEL
  - To feed the themes of the symposiums within the framework of the annual GAMs

## 3) **Communication and prescription**

- Share the FISUEL design for any document developed by the WG
- Inform the FISUEL website and "safetybarometer.com" website defined by the criteria that contribute to the electrical safety for the residential and for the Tertiary / Industry
- Develop the FISUEL communication support «why join Fisuel»
- Organize the international communication of FISUEL
- Contribute to the enrichment and development of articles for Newsletters

## 4) **New members**

- Open the Working Group to new non-member experts of FISUEL
- Develop contacts with prospective members
- List the contact details of these prospective members to send them newsletters

Patrick Aubelis - General Delegate

# Europe/Middle East Working Group

## 1) Description of the zone organisation and responsibilities

The leader is Marc Maslowski and Benoît Dôme as animator.  
The EU zone was extended to Lebanon and Saudi Arabia.

## 2) Functioning for 2018

Still to be approved, it is planned one webex and 2 face to face meetings.  
One will be during the 2018 GAM in Abidjan in May.

## 3) Actions plan and activities for 2018 to 2020

In line with the Fisuel guidelines, the WG develops the following subjects:

- website "World Safety Barometer" for the residential and for the non-residential
- common base for statistics (fires, electrical accidents, ...)
- counterfeiting and non-compliant electrical devices fights – Market Surveillance
- issuing the news for Working Group Europe / Middle East and others WGs (Asia/Pacific and Africa)
- FEEDS : Forum for European Electrical Safety
- electrical vehicle
- electrical renewable
- energy Storage
- energy Poverty
- AFCI : arc fault circuit interrupter

## 4) Other and proposition

- Contribution to make live and update of the Fisuel website
- Creation of data base for images and videos, in the Fisuel website
- Coordination of the Fisuel communication

## 5) Expert members of the Working Group



*Benoît Dôme and Marc Maslowski*

# Asia /Pacific Working Group

## 1) Description of the zone organisation and responsibilities

The leader is Moonyeong Bak helped by Mulianto Gultom.  
The zone consists to Asia and Pacific area.

## 2) Functioning for 2018

Date of meeting and activities in 2018: at the 2018 GAM in Abidjan, Ivory Coast.

## 3) Actions plan and activities for 2018 to 2020

a) We aimed to promote Fisuel to Asia Pacific countries in 2018.

- Purpose: To consolidate WG's cooperation and discuss inviting new member.
- Fisuel Members of AWG: Active and Partner members of Asia-Pacific WG
  - ALPERKLINAS      Indonesia
  - COTSUEL            New Caledonia
  - EC                    Malaysia
  - FESIA                Japan
  - KESCO              Korea
  - KONSUIL            Indonesia
- invited Members to the AWG :
  - EMA                  Singapore

b) Planned activities

- Q1 :
  - Workshop with Africa WG and KESCO
  - Promoting FISUEL to Vietnam in Ministers meeting
- Q2 :
  - Participating FISUEL Symposium in Ivory Coast
  - Asia-Pacific WG meeting well be held as a part of FISUEL Symposium: Information Exchange between Asia-Pacific WG regarding 'Securing the Safety of Electric Facility Inspections'
  - Information Exchange between FESIA and KESCO
- Q3 :
  - Promoting FISUEL to Mongolia Government
  - Reinforce FESIA's survey dispatched to the Asia-Pacific WG members
- Q4 :
  - Participating ASEAN meeting in Singapore

## 4) Expert members of the Working Group



Moonyeong Bak



## Cameroon - Electricity: Eneo and the Cameroonian customs hand in hand to strengthen the safety of electrical equipment

**FONGOD Edwin NUVAGA** and **Joël NANA KONTCHOU** respectively **General Director of the Cameroonian Customs** and **General Director of Eneo** signed **Thursday, October 5th** a cooperation agreement to this effect.

It has become common in households to be confronted with an incident due to poor electrical equipment. A brand new extension cord or plug that suddenly goes off when plugged into the wall outlet, a fire that occurs as a result of a short circuit due to the poor quality of electrical wires used during construction, electrical cables which are cut and pylons vandalized, sawed by outlaws who plunge populations into the dark.

These are among other realities to which the partnership agreement signed between Eneo Cameroon and the General Direction of Customs must be able to end in the long term.

This agreement falls within the framework of the reinforcement of the actions of fight against the contraband and the frauds, carried out by the Cameroonian Customs.

It aims to contribute to the improvement of the quality of electrical service through a control of the flow of electrical equipment become a major risk of safety of people and property. Beyond that, the General Direction of Customs wants to secure the customs revenue which this traffic deprives the account of State.

So it's a win-win partnership. By this last Cameroonian customs intends to strengthen the effectiveness of controls both upstream and downstream. The two parties agreed to exchange information that could help, on the one hand, the traceability of imported electrical equipment, before its installation on the Eneo network, and on the other hand, the control and seizure of stolen equipment, on the electrical distribution network and intended for export.

The agreement also provides for the parties to work on the establishment of two devices for the benefit of Eneo's operations. This is the **bonded private warehouse** and the **direct removal**.

"**The private bonded warehouse** is a store in which the recurring material imported by Eneo (Cables, meters, distribution transformers, circuit breakers, etc.) will be stored. Each material stored in this store is cleared only when it has to be released for use. This facility provides flexibility to the business in acquiring its inputs.

This has the effect of improving inventory management as well as response times for repair teams", explains the general director of customs Edwin Nuvaga. With regard to **direct removal**, it is set up for projects deemed urgent. "It is a mechanism that because of the criticality of the operation, facilities are granted to a credible company in the context of the clearance of the material requested. This does not dispense with the payment of fees.

This facility generates a saving of time in the delivery of the projects", indicates the boss of the Cameroonian customs.

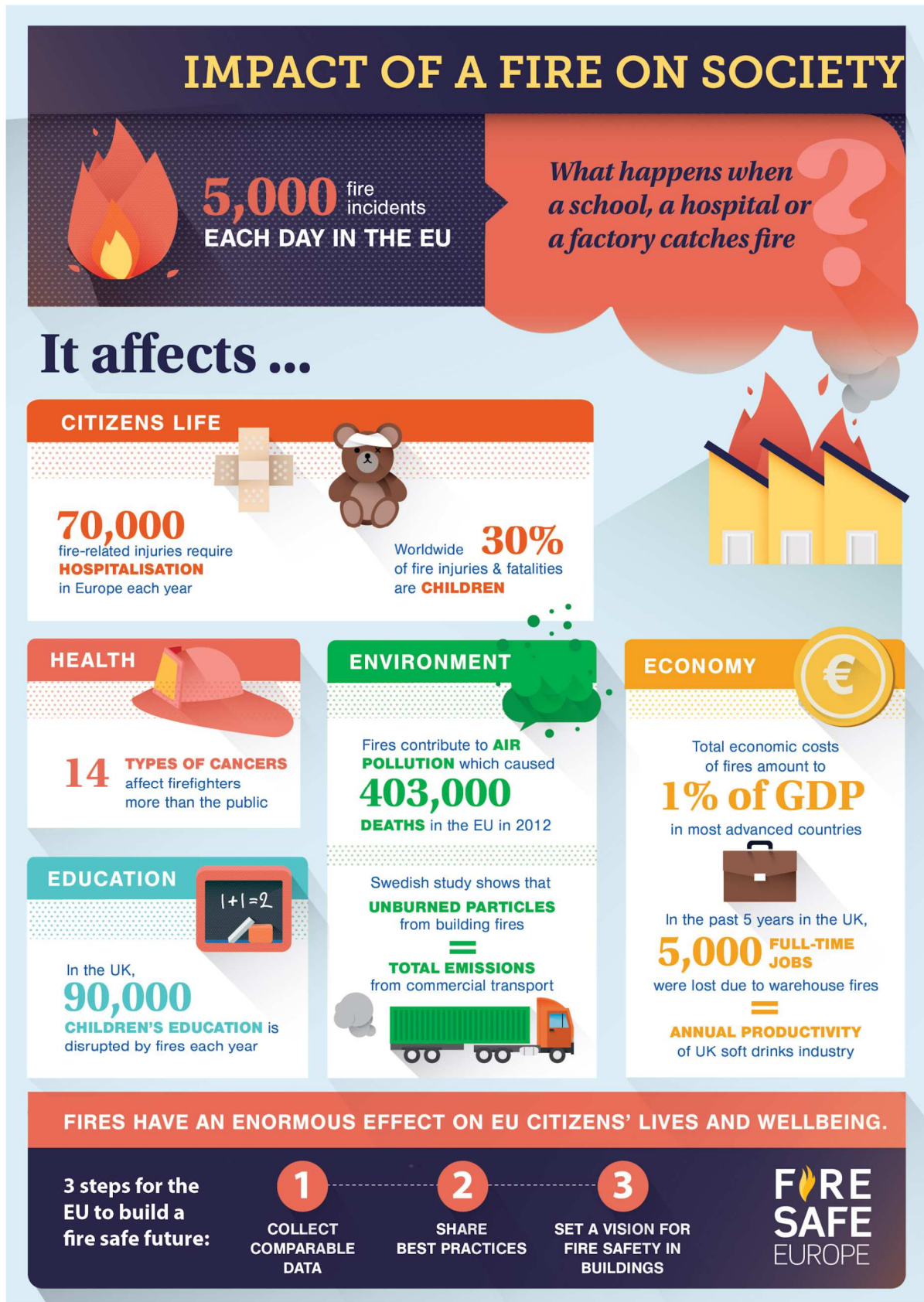
*Article from Mr Iris Bitjoka transmitted by Mr Benoit Dôme*



## Statistiques : exemples

These are 2 examples of synthesis of statistics concerning fires and electrical accidents.

- **Fire Safe Europe** : <https://firesafeeurope.eu/>





## ACT NOW

- By taking part in our workshops
- By contributing to the functioning of the structure
- By sharing data with the Observatory
- By attending the next restitution of data



To contact us: [contact@onse.fr](mailto:contact@onse.fr)






## FRENCH NATIONAL OBSERVATORY OF ELECTRICAL SAFETY



For 20 years, Promotelec Association and Consuel gathered committed actors to share data in order to analyze and improve the electrical safety

**Nowadays, many electrical damages are still due to electrical source**



<h3>DWELLING FIRES/ YEAR</h3>  <p><b>200,000 dwelling fires</b> responsible for <b>300 fatalities and 15,600 injuries among them</b></p> <p><b>82,000</b> fires with brigade interventions</p>	<h3>ELECTRICAL ACCIDENTS/ YEAR</h3>  <p><b>3,000 people</b> electrification casualties <b>40 people</b> electrocution casualties</p>
<p><b>50,000</b> fires due to electrical source:</p> <ul style="list-style-type: none"> <li>• 61% related to electrical equipment</li> <li>• 36% related to fix or mobile installations</li> <li>• 3% related to installations in common parts of to energy distribution</li> </ul>	<h3>ELECTRICAL DAMAGES/ YEAR</h3>  <p><b>400,000</b> Due to:</p> <ul style="list-style-type: none"> <li>• lightning, overvoltage, overload,</li> <li>• heating,</li> <li>• failure of a component, electric default</li> </ul>

### ECONOMICAL CONSEQUENCES/ YEAR

For dwelling fires, estimated to <b>4,2 billion €</b> of which <b>1 billion €</b> for fires due to electrical source	For electrical damages and accidents estimated close to <b>1,6 billion €</b>
--	--

All data result of ONSE and some of them are based on an average over 5 years.

## KEY DATA

### METROPOLITAN FRANCE IN 2010

**35 million** dwellings among which **29 million** over 15 years

### DWELLINGS with electrical installations over 10 years

**2/3** of the electrical installations do not comply with at least 1 of 6 mandatory safety points:

- 80% with a defective earth connection
- 60% with a bad equipotential connection and a safety zone of the bathroom not respected
- 60% present risks of direct contacts with live elements
- 50% own obsolete devices

### COMMON PARTS: electrical installations

- 75% present hazards of direct contacts with live elements
- 50% present hazards of indirect contacts with live elements

\*Circulaire N° 2008-284 of 22-04-2008



In 41 years, the number of electrocutions/year was divided by 5, going from 200 to 40

Thanks to the evolution of the regulations:

- Decrees on the protection of the workers in 1962
- The NF C 15-100 standard and the earth connection in 1969
- The electrical switchboard in 1980
- The 30mA earth leakage device in 1991
- The mandatory electrical diagnosis (DEO) for over 15 years dwelling sale in 2009
- The DEO for dwelling rental from 2017



Direct correlation between regulation and decrease of the accidents



## World Electrical Safety Barometer

World Safety Barometer ( <http://www.safetybarometer.org/> )

Domestic electrical safety players are: fire brigades, insurance companies, the electricity sector (producers, distributors, installers and inspectors as well as manufacturers of cables and equipment), standardization bodies, trainers and many others and then the users (owners and tenants).

To enable all these actors to take effective measures, the FISUEL has taken over and integrated into its website (<http://www.fisuel.org/>) the World Safety Barometer with mission to maintain and develop it.

An expert group defined and weighted the main criteria (13) for electrical safety. Standards and rules in place, specifications for initial inspection, specifications for periodic inspections, inspection report, mechanisms for

inspections of existing installations, qualification of inspectors, qualification of installers, role of producers and distributors, consumer education , initial inspection standards, product marking, role of manufacturers and market surveillance.

For a new country or for an update, simply log in to the site and answer the questions (if possible with a URL link, it may be useful to print it before.) The document is then sent to the FISUEL who will take care of the control and the putting on line.



On the basis of these criteria, a score (expressed in %) per country is established. Stakeholders deciding to improve the electrical safety situation will quickly be able to assess the situation and identify weaknesses. Moreover thanks to the network offered by the FISUEL, they will quickly get in touch with countries that already apply the measures and will explain the principles, the budgets, ... but also the possible difficulties during the development.

The FISUEL will focus this year on the updating and development of this tool through the leaders of the working groups (for the member countries but also for those with whom they have relations), fire brigades (FIRE, ESFA -

Europe), insurance (Insurance Europe Prevention Forum) and installers (AIE Europe).

A specific campaign will be organized for members of TC Technical Committee 64 "Electrical installations and protection against electrical shock".

*Benoit Dôme*





# General Annual Meeting 2018 of FISUEL, In Abidjan – Ivory Coast, invited by LBTP Securel



## Theme of the 2018 GAM

« Energy Transition : situation, stakes and prospects for the safety of users »

**The event**, from April 30<sup>th</sup> to May 4<sup>th</sup>, 2018, will take place in **RADISSON BLU ABIDJAN**- Hotels - Route de l'aéroport - Aéroport Port-Bouet - BP 2176 Abidjan 03 - Abidjan - Côte d'Ivoire. Tel : (+225) 21 22 20 00. website : [www.radissonblu.com](http://www.radissonblu.com).



## Program:

**SAVE THE DATES**

1 <sup>st</sup> Day: MONDAY 30 <sup>th</sup> of APRIL / Board meeting - Official opening Ceremony		
09:00 - 10:00		BOARD of DIRECTORS
14:00 – 15:30		<b>OPENING CEREMONY</b> Reception and installation of guests Welcome from the Mayor of Port-Bouet Speech by the LBTP DG, President of the CO Speech by the President of FISUEL Speech by the Minister in Charge of Energy Speech by the Minister of Economic Infrastructure Opening speech by the Prime Minister
15:30 – 16:00		Visit of stands
16:00 – 16:15		Coffee break
16:15 - 18:15		GENERAL ASSEMBLY OF FISUEL
2 <sup>nd</sup> Day : TUESDAY 1 <sup>st</sup> of MAY / Working Groups (WG)		
9:00 – 11:00	Working Groups	Africa WG, Europe / Middle East WG, Asia / Pacific WG
3 <sup>rd</sup> Day : WEDNESDAY 2 <sup>nd</sup> of MAY / Symposium		
08:00– 10:00		SYMPOSIUM
10:00 – 10:15		Coffee break

10:15 – 12:15	SYMPOSIUM
12:15 – 13:15	Lunch
14:00 – 16:00	SYMPOSIUM
16:00 -16:30	Coffee break
16:30 – 17:30	RESTITUTION
<b>4<sup>th</sup> Day : THURSDAY 3<sup>rd</sup> of MAY / Symposium – Gala Dinner</b>	
08:00– 10:00	SYMPOSIUM
10:00 – 10:15	Coffee break
10:15 – 12:15	SYMPOSIUM
12:15 – 13:15	Lunch
14:00 – 15:00	RESTITUTION
15:00 -16:00	WORKING REPORT
16:00- 17:00	CLOSING CEREMONY
17:00 – 17:30	COCKTAIL
<b>20:00</b>	<b>GALA DINNER</b>
<b>5<sup>th</sup> Day : FRIDAY 4<sup>th</sup> of MAY / Technical and touristic tour on DIVO</b>	
7:00	<b>Departure to Divo</b>
10:00 – 10:30	<b>Welcome ceremony</b>
10:30 - 12:30	<b>Inauguration</b>
12:30 – 13:30	<b>Lunch</b>
15:00	<b>Departure to ABIDJAN</b>

**Sponsors and speakers:** Any contributions as sponsors or as speakers whose topic would be consistent with the above paragraph, are to be sent to Mamadou Sylla ([msylla@lbtp.org](mailto:msylla@lbtp.org)) and to Patrick Aubelis ([patrick.aubelis@fisuel.org](mailto:patrick.aubelis@fisuel.org))

**Booking :** All required documents for registration and reservations are in progress.

Source : Mamadou Sylla LBTP Securel – Ivory Coast



#### **For consistent newsletters**

Should you have topics that you would like to share with the recipients of the FISUEL newsletter, send us a page with photos to the e-mail address [fisuel@fisuel.com](mailto:fisuel@fisuel.com)

#### **2018 Directory of Fisuel**

Each active or partner member of FISUEL has received a form corresponding to their instance, to update the 2018 directory of Fisuel.

For those who did not do it so far, please check it, complete it and return it quickly to Annie Besançon ([fisuel@fisuel.org](mailto:fisuel@fisuel.org)).

#### **Known dates today for Fisuel meetings in 2018**

Africa, Asia / Pacific and Europe Working Groups (in progress)

The 2018 GAM in Abidjan in Ivory Coast from April 30<sup>th</sup> to May 4<sup>th</sup> 2018

**The Newsletter** is available on website [www.fisuel.org](http://www.fisuel.org)

#### **Reminder**

- The address for any letter to Fisuel : Fisuel chez Promotelec, Tour Chantecoq, 5 rue Chantecoq, 92808 Puteaux Cedex, France
- The e-mail address to Mrs Annie Besançon: [fisuel@fisuel.org](mailto:fisuel@fisuel.org),
- Phone number : + 33 (0) 9 52 19 68 75
- Head offices are 21 rue Ampère, Paris, 75017, France.

