



Fisuel Seminar – 16-17 of October 2023

Consuel Paris France

1 - Welcome

Opening the seminar by the President

- Thanks to Consuel
- 13 present members on 21 = 62%
- 18 contribution on 21 = 86%
- Thanks to all for this strong contribution
- Respect 15mn per speakers

1 - Presence list

- ACAVIE
- ASEC
- CONSUEL
- CONTRELEC
- COPPERALLIANCE
- COTSUEL
- EDF
- FESIA
- KESCO
- LBTP
- OEA
- PROQUELEC
- SCHNEIDER ELECTRIC

2- agenda

Monday 16 October 2023 – Seminar

14:30 to 17:00

First session in 3 parts

- Introduction
- Electrical installations
- WESB

17:30

Diner at Tour Eiffel Paris - by Bus

Tuesday 17 October 2023 – Seminar

10:00 – 12:30

Second session in 2 parts

- Statistics
- Solar PV

12:30 – 14:15

Lunch

14:15 – 15:00

Synthesis and actions plan

3- First session - seminar

1 st session – 1 st part	14:30 to 14:45	
<p>Opening seminar :</p> <ul style="list-style-type: none">➤ Thanks and Objectives➤ Remind the 3 orientations		<p>President</p> <p>Treasurer</p>

3- First session - President

Opening the seminar : Thanks and objectives

- Thanks to all for coming and for your contribution
- Objectives
 - Increase the electrical safety level in the world
 - Decide the future of Fisuel

3- First session - Treasurer

Opening the seminar : Remind the 3 orientations

approved during the AGM 2023

based on expectations, results of the 2023 consultation

Seminar = 4 subjects broken down from the 3 orientations

1. **Conformity of Electrical Installations in Residential**
 - Inspections systems in new & existing
2. **Expectations of members on the new fields of electricity**
 - Photovoltaic Production Installations
3. **Communication and Fisuel WW image**
 - World Electrical Safety Barometer
 - Statistics on electrical safety

3- First session – Orientation 1

1st session – 2nd part

15:00 à 16:15

Conformity of Electrical Installations in Residential :
Inspections systems in new & existing
President

➤ in Europe & ME	M Maslowski
➤ in Africa	M Sylla
➤ in Asia Oceania	A Vigier
➤ Safety in Tertiary / Industry	Y Serizawa
➤ Digital technology	Y Serizawa
➤ Finding and actions plan	President

3- 1st session Orientation 1 - President

Conformity of Electrical Installations in Residential : Inspections systems in new & existing

➤ Objectives

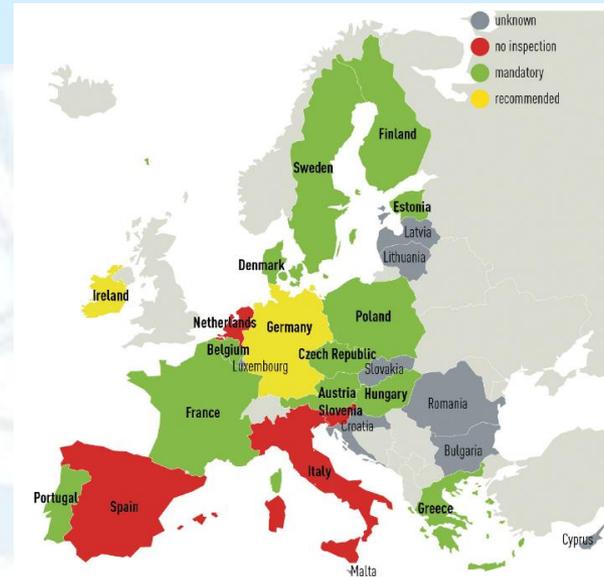
- Promote inspections systems around the world
- Consolidate Fisuel data base
- Share the best practices
- Evolution of the Fisuel scope
- Efficiency with new technologies

3- 1st session Orientation 1 - **Marc**

Conformity of Electrical Installations in Residential

Europe

Initials and periodics verifications situation





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THANK YOU

3- 1st session Orientation 1 - Mamadou

Conformity of Electrical Installations in Residential **Africa** Initials and periodics verifications

- Benin
- Cameroun
- Cote d'Ivoire
- Guinée
- Mali
- Sénégal





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THANK YOU

3- 1st session Orientation 1 - Alexandre

Conformity of Electrical Installations in Residential

Asia/Pacific

Initials and periodics verifications

- Japan;
- Republic of Korea;
- India;
- Indonesia;
- New Caledonia.



3- 1st session Orientation 1 - **Yuichi**

Conformity of Electrical Installations in Residential

Safety in the Tertiary and Industry

Fesia : Yuichi Serizawa



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3- 1st session Orientation 1 - **Yuichi**

Conformity of Electrical Installations in Residential

Evolution towards digital technology

Fesia : Yuichi Serizawa



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3- 1st session Orientation 1 - **President**

Conformity of Electrical Installations in Residential

➤ Findings :

- First expectation from Fisuel members
- Strong criteria to contribute to Electrical Safety
- Strong differences in inspections systems per country
- Request scope extension with **Tertiary & Industry**
- Efficiency with **Digital Technology**
- Very rich presentations - Thanks to all of you

3- 1st session Orientation 1 - **President**

Conformity of Electrical Installations in Residential

➤ Project of actions plan

- Consolidate and enrich Fisuel data base
- Share the local best practices as inspections systems
- Extension scope and new technology
- **HOW to do**
- **We wait for your proposals**

3- First session – Orientation 3

1st session – 3rd part

16h15 to 17h00

Communication and Fisuel Worldwide image

World Electrical Safety Barometer

Secretary

- | | |
|---|-----------|
| ➤ WESB web site Presentation | O Tissot |
| ➤ Objectives | O Tissot |
| ➤ Criteria, weight & local situation | O Tissot |
| ➤ WESB 2026 aim | P Selva |
| ➤ Organisation, impacts actions plan | Secretary |

3- First session – Orientation 3 - Patrick

Communication & Fisuel WW Image

World Electrical Safety Barometer - WESB

<https://www.safetybarometer.org/>

Objective :

- Purpose and Promotion
- Obtain 100 updated country data in 2026

3- First session – Orientation 3 - Olivier

Communication & Fisuel WW Image

World Electrical Safety Barometer - WESB

Presentation by Olivier

3- First session – Orientation 3 - Pierre

Communication & Fisuel WW Image

World Electrical Safety Barometer – WESB

by Pierre Selva
Schneider Electric

3- First session – Orientation 3 - Patrick

Communication & Fisuel WW Image

World Electrical Safety Barometer - WESB

- Findings :
 - 43 Country data without update for long time
 - Tool to compare Electrical Safety level per country
 - Schneider Electric proposal to promote WESB

- Project of actions plan to reach the aim 100 countries in 2026
 - Contact countries – Help Schneider Electric

 - Update the website ? Secretary and Factocom

End of the first day

- **Departure to the restaurant by bus**
 - Place : Consuel
 - Departure at 17:30

- **Restaurant Madame Brasserie – Tour Eiffel - 18:30**

- **Return by bus**

4- 2nd session – seminar

2nd session – 2 parts

10h00 to 12h30

Orientations 3 : Communication and Fisuel WW image

- **Statistics - 10h00 to 11h00**

Orientation 2 – Expectations of members on the new fields of electricity

11h00 to 12h30

- **Photovoltaic Production Installations**

4- 2nd session – Orientation 3

2nd session – 1st part

10h00 to 11h00

Communication & Fisuel WW image

Statistics on fires & electrical accidents In Residential
Secretary

- Works in France & Europe
- Data on Africa
- Data on Japan
- Data on Rep of Korea
- Data in India

Secretary
Secretary
Y Serizawa
J Shin
M Kundu

- Findings and actions plan

Secretary

4- 2nd session – Orientation 3 - Patrick

Communication & Fisuel WW image

Residential fire and electrical accident statistics,

Objectives and remind OISE in Fisuel

- OISE was launched in Fisuel many years ago
- A topic concerned statistics on the web site
<https://www.fisuel.org/les-themes/?lang=en>
- Aim of OISE with consolidation data at worldwide level, is
 - to permit comparison of statistics per country, then
 - to help to improve electrical safety

4- 2nd session – Orientation 3 - **Patrick**

Communication & Fisuel WW image

Residential fire and electrical accident statistics,

ONSE for France

- ONSE = Health, firemen, insurance, consumers, authorities, manufacturers, experts, etc
- Mission = Share statistics in line with residential
- Aim = Public barometer
- Guides = same definitions, data sources, scope, perimeter...

4- 2nd session – Orientation 3 - Patrick

ONSE for France

Some data of the 2021 ONSE barometer

- 84% E.I. >15 years with anomaly
- 30-40 Deaths by electrocutions per year
- 80 000 Residential fires per year
- 20 to 35% Fires with electrical source
- about M€ 6 Economic consequences all residential fires, electrical accidents, electrical damages
- <https://www.onse.fr/resultats-publications/>



4- 2nd session – Orientation 3 - Patrick

Communication & Fisuel WW image

Residential fire and electrical accident statistics,
for Europe

- FEEDS : Forum for European Electrical Domestic Safety
 - White paper accidental electrical domestic fires
 - 2020 : 25 to 30% Fires with electrical source
 - <https://www.feedsnet.org/wp-content/uploads/2023/01/FEEDS-report-202002.pdf>

4- 2nd session – Orientation 3 - Patrick

Communication & Fisuel WW image

Residential fire and electrical accident statistics,
for Europe

➤ Germany data – IFS :

- 2002/2021 : **33%** Fires with electrical source
- <https://www.schadenprisma.de/archiv/artikel/elektrische-brandursachen-im-wandel-der-zeit/>

4- 2nd session – Orientation 3 - Patrick

Communication & Fisuel WW image

Residential fire and electrical accident statistics,

Statistics for Africa - 2018

- Fisuel Abidjan 2018 : Presentation by Copperalliance ECI
 - Model & 2014 Data for Africa countries with similar GDP
 - Ex: **2800** deceases for all **26 countries**
 - electrocutions (84%)
 - Consequences electrical fires (16%)
 - https://www.fisuel.org/wp-content/uploads/2019/11/2018_Fisuel-Model-Data-for-Africa.pdf

To be confirmed

4- 2nd session – Orientation 3 - **Yuichi**

Communication & Consolidation of Fisuel global image
Residential fire and electrical accident statistics,
Statistics for Japan

Fesia : Yuichi Serizawa

4- 2nd session – Orientation 3 - **Job**

Communication & Fisuel WW image

Residential fire and electrical accident statistics

Data in Republic of Korea

KESCO: Job Shin

4- 2nd session – Orientation 3 - **Job**

Communication & Fisuel WW image

Residential fire and electrical accident statistics,

Data in Republic of Korea - KESCO

- Ministry
- Analysis of damage on life and assets by electrical fires from 2005 to 2015 (2015 presentation / forum Seoul)
 - 26.5% electrical fires in 2005 for 19.7% en 2014
 - which had caused in 2014, **31 deaths**
 - **36 electrocutions** in 2013 & **37** in 2014
 - <https://www.fisuel.org/wp-content/uploads/2019/11/2015-Statistics-analysis-of-electrical-accidents.pdf>

4- 2nd session – Orientation 3 - **Job**

Communication & Fisuel WW image

Residential fire and electrical accident statistics,

Data in Republic of Korea - KESCO

Korea Electrical Safety Corporation

Analysis of Electrocution & Injuries, 2017 / 2021

Electric shock accident statistics (death + injury) by age (16 years ~ 20 years old)

Year	2017	2018	2019	2020	2021
Death (person)	1	-	-	-	-
Injury (person)	5	16	13	10	7
D+I Share / ages (%)	1,1	3,1	2,6	2,5	1,7

4- 2nd session – Orientation 3 - **Job**

Communication & Fisuel WW image

Residential fire and electrical accident statistics,

Data in Republic of Korea - KESCO

Korea Electrical Safety Corporation

Electric shock accident statistics (death + injury) by location (residential facilities)

Year	2017	2018	2019	2020	2021
Death (person)	2	6	4	4	4
Injury (person)	101	96	103	80	77
D+I Share / location (%)	19,7	19,8	21,1	20,6	19,7

4- 2nd session – Orientation 3 - **Amol**

Communication & Fisuel WW image

Residential fire and electrical accident statistics,

Data in India

Copperalliance India : Amol Kalsekar

4- 2nd session – Orientation 3 - Patrick

Communication & Fisuel WW image

Residential fire and electrical accident statistics

Findings on statistics:

- A lot of accessible local data for information
- Link with Electrical Installation compliance
- Important subject to become aware and act
- Huge gap between countries
- Different methodologies are used
- Great experience in some countries
- Thanks to your strong contribution

4- 2nd session – Orientation 3 - Patrick

Communication & Fisuel WW image

Residential fire and electrical accident statistics

Project of actions plan

- Aim : to share and to compare
- Consolidation data at Fisuel level
- Define a common methodology ?
- Define same perimeter & precise data sources
- Share best practices
- Organize the works - HOW

4- 2nd session – Orientation 2

2nd session – 2nd part 11h00 to 12h30

Expectations of members on the new fields of electricity

Photovoltaic Production Installations Treasurer

➤ IPPV Situation	in France	M Maslowski
➤	in Japan	A Kato
➤	in India	M Kundu
➤	in Lebanon	J Haydar
➤	in Senegal	M Dieye
➤ IEC standards		P Selva
➤ Global Impact Fund		P Selva

Findings and actions plan	M Maslowski
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4- 2nd session – Orientation 2 - **Patrick**

Expectations of members on the new fields of electricity
Photovoltaic Production Installations in residential

Objectives and remind

- inspection systems for an IPPV installation in new and existing buildings
- the consequences in terms of claims and fires
- electrical anomalies observed
- other information if available on IPPV (growth, trains for electricians, etc.)

4- 2nd session – Orientation 2 - **Marc**

Expectations of members on the new fields of electricity
Photovoltaic Production Installations in residential

Situation in France

Marc Maslowski



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4- 2nd session – Orientation 2 - **Akihito**

Expectations of members on the new fields of electricity
Photovoltaic Production Installations in residential

Situation in Japan

4- 2nd session – Orientation 2 - **Manas**

Expectations of members on the new fields of electricity
Photovoltaic Production Installations in residential

Situation in India

Copperalliance India : Manas Kundu

4- 2nd session – Orientation 2 - **Jamal**

Expectations of members on the new fields of electricity
Photovoltaic Production Installations in residential

Situation in Lebanon

OEA : Jamal Haydar



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4- 2nd session Orientation 2 - **Moustapha**

Expectations of members on the new fields of electricity
Photovoltaic Production Installations in residential

Situation in Senegal

4- 2nd session - Orientation 2 - Pierre

Expectations of members on the new fields of electricity
Photovoltaic Production Installations in residential

IEC standards

Global Impact Fund

By Pierre Selva Treasurer of IEC



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4- 2nd session - Orientation 2 - **Marc**

Expectations of members on the new fields of electricity Photovoltaic Production Installations in residential

Findings through Fisuel

- Many information on new fields of electricity
- 1st Case : Photovoltaic Production Installations
- Other : installation of electric vehicle charging ?

Project of actions plan

- Define the content to share
- Complete the presentations with topics not covered
- Consolidate per country – **HOW**

5 – Synthèse

2nd day the 17th pm

14:15 - 15:00

Synthesis and actions plan

- **3 orientations 4 pillars of Elec. Safety**
- **Functioning & Finances**
- **Findings of the seminar**
- **Decision of seminar**
- **Closure of seminar and thanks**

President
M Maslowski
President
President
President

5 – Synthesis & actions plan - President

3 Fisuel orientations

approved during the 2023 GA

1. Conformity of Electrical Installations in Residential
2. Expectations of members on the new fields of electricity
3. Communication and Fisuel WW image

4 Fisuel pillars for Electrical Safety

Based on historic WGs works and seminar presentations

- Conformity of Electrical Installation all its life for users
- WESB – electrical safety level for a country
- Statistics in line with electricity
- Extension safety with new functions (IPPV and IEVC)

5 – Synthesis & actions plan - Treasurer

Project of Functioning & Finances of Fisuel

- Current 21 diversified members
- Quid former members to consolidate competency ?

- Simple Corporate Actions (secretary, account, etc)
- Help regions to develop
- Provide finance for exceptional actions
- Provide ne GAM a year

5 – Synthesis & actions plan - President

Findings of the seminar

- Strong contribution to the seminar
- Dynamism of all Fisuel Members
- Interested and share the 3 orientations
- Shared actions plan per subject
- Great disparity of electrical safety situation
- Strong members expectations from Fisuel
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5 – Synthesis & actions plan - President

Decision of seminar : future of Fisuel

- Advice from members on findings?
- If positive
 - Engagement of all to continue to contribute ?
 - Which work organisation in Fisuel ?
 - Global actions plan to do (consolidation)?
 - Next score during the Board in March 2024 ?
- Decision :
 - Act to answer to the 3 orientations
 - Define the organisation in Fisuel ?

5 – Synthesis & actions plan - President

Closure of seminar and thanks

- Resume
- Thanks to all

Closing Seminar
MERCI - THANKS

