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

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>14:30 to 17:00</td>
<td>First session in 3 parts</td>
</tr>
<tr>
<td></td>
<td>- Introduction</td>
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<td></td>
<td>- Electrical installations</td>
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<td></td>
<td>- WESB</td>
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<tr>
<td>17:30</td>
<td>Diner at Tour Eiffel Paris - by Bus</td>
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</tbody>
</table>

## Tuesday 17 October 2023 – Seminar

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>10:00 – 12:30</td>
<td>Second session in 2 parts</td>
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<tr>
<td></td>
<td>- Statistics</td>
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<td>- Solar PV</td>
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<tr>
<td>12:30 – 14:15</td>
<td>Lunch</td>
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<tr>
<td>14:15 – 15:00</td>
<td>Synthesis and actions plan</td>
</tr>
</tbody>
</table>
# 3- First session - seminar

<table>
<thead>
<tr>
<th>1st session – 1st part</th>
<th>14:30 to 14:45</th>
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</thead>
<tbody>
<tr>
<td><strong>Opening seminar:</strong></td>
<td></td>
</tr>
<tr>
<td>➢ Thanks and Objectives</td>
<td>President</td>
</tr>
<tr>
<td>➢ Remind the 3 orientations</td>
<td>Treasurer</td>
</tr>
</tbody>
</table>
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
- in Africa
- in Asia Oceania
- Safety in Tertiary / Industry
- Digital technology

<table>
<thead>
<tr>
<th></th>
<th>M Maslowski</th>
<th>M Sylla</th>
<th>A Vigier</th>
<th>Y Serizawa</th>
<th>Y Serizawa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finding and actions plan</td>
<td>President</td>
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</tbody>
</table>
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
MERCI

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
MERCI
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- 1\textsuperscript{st} session Orientation 1 - Yuichi

Conformity of Electrical Installations in Residential

Safety in the Tertiary and Industry

Fesia : Yuichi Serizawa
MERCI
THANK YOU
3- 1st session Orientation 1 - Yuichi

Conformity of Electrical Installations in Residential

Evolution towards digital technology

Fesia : Yuichi Serizawa
MERCI
THANK YOU
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- 1\textsuperscript{st} session Orientation 1 - President

Conformity of Electrical Installations in Residential

➢ Project of actions plan

  o Consolidate and enrich Fisuel data base
  o Share the local best practices as inspections systems
  o Extension scope and new technology
  o HOW to do
  o 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**

<table>
<thead>
<tr>
<th>➢ WESB web site Presentation</th>
<th>O Tissot</th>
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<tbody>
<tr>
<td>➢ Objectives</td>
<td>O Tissot</td>
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<tr>
<td>➢ Criteria, weight &amp; local situation</td>
<td>O Tissot</td>
</tr>
<tr>
<td>➢ WESB 2026 aim</td>
<td>P Selva</td>
</tr>
<tr>
<td>➢ Organisation, impacts actions plan</td>
<td>Secretary</td>
</tr>
</tbody>
</table>
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:
  o 43 Country data without update for long time
  o Tool to compare Electrical Safety level per country
  o Schneider Electric proposal to promote WESB

➢ Project of actions plan to reach the aim 100 countries in 2026
  o Contact countries – Help Schneider Electric
  o 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
- Photovoltaic Production Installations 11h00 to 12h30
### 2\textsuperscript{nd} session – 1\textsuperscript{st} part

<table>
<thead>
<tr>
<th>10h00 to 11h00</th>
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<tbody>
<tr>
<td>Communication &amp; Fisuel WW image</td>
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<tr>
<td>Statistics on fires &amp; electrical accidents In Residential</td>
</tr>
<tr>
<td><strong>Secretary</strong></td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th><strong>Secretary</strong></th>
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<tbody>
<tr>
<td>Secretary</td>
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<tr>
<td>Y Serizawa</td>
</tr>
<tr>
<td>J Shin</td>
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<tr>
<td>M Kundu</td>
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- **Findings and actions plan**

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<tr>
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</table>
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
  o to permit comparison of statistics per country, then
  o to help to improve electrical safety
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…
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/
Communication & Fisuel WW image
Residential fire and electrical accident statistics, for Europe

➢ FEEDS : Forum for European Electrical Domestic Safety
  o White paper accidental electrical domestic fires
  o 2020 : 25 to 30% Fires with electrical source
Communication & Fisuel WW image
Residential fire and electrical accident statistics, for Europe

➢ Germany data – IFS :
  o 2002/2021 : 33% Fires with electrical source
  o https://www.schadenprisma.de/archiv/artikel/elektrische-brandursachen-im-wandel-der-zeit/
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%)

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
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)
  o 26.5% electrical fires in 2005 for 19.7% en 2014
  o which had caused in 2014, 31 deaths
  o 36 electrocutions in 2013 & 37 in 2014

### 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

<table>
<thead>
<tr>
<th>Year</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Death (person)</strong></td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Injury (person)</strong></td>
<td>5</td>
<td>16</td>
<td>13</td>
<td>10</td>
<td>7</td>
</tr>
<tr>
<td><strong>D+I Share / ages (%)</strong></td>
<td>1,1</td>
<td>3,1</td>
<td>2,6</td>
<td>2,5</td>
<td>1,7</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Year</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Death (person)</td>
<td>2</td>
<td>6</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Injury (person)</td>
<td>101</td>
<td>96</td>
<td>103</td>
<td>80</td>
<td>77</td>
</tr>
<tr>
<td>D+I Share / location (%)</td>
<td>19,7</td>
<td>19,8</td>
<td>21,1</td>
<td>20,6</td>
<td>19,7</td>
</tr>
</tbody>
</table>
Communication & Fisuel WW image
Residential fire and electrical accident statistics,
Data in India

Copperalliance India : Amol Kalsekar
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- 2\textsuperscript{nd} session – Orientation 2

### 2\textsuperscript{nd} session – 2\textsuperscript{nd} part  
11h00 to 12h30

Expectations of members on the new fields of electricity

Photovoltaic Production Installations

Treasurer

<table>
<thead>
<tr>
<th>Topic</th>
<th>Country</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPPV Situation</td>
<td>in France</td>
<td>M Maslowski</td>
</tr>
<tr>
<td></td>
<td>in Japan</td>
<td>A Kato</td>
</tr>
<tr>
<td></td>
<td>in India</td>
<td>M Kundu</td>
</tr>
<tr>
<td></td>
<td>in Lebanon</td>
<td>J Haydar</td>
</tr>
<tr>
<td></td>
<td>in Senegal</td>
<td>M Dieye</td>
</tr>
<tr>
<td>IEC standards</td>
<td></td>
<td>P Selva</td>
</tr>
<tr>
<td>Global Impact Fund</td>
<td></td>
<td>P Selva</td>
</tr>
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</table>

Findings and actions plan

M Maslowski
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.)
Expectations of members on the new fields of electricity
Photovoltaic Production Installations in residential

Situation in France

Marc Maslowski
MERCI
THANK YOU
4- 2\textsuperscript{nd} session – Orientation 2 - Akihito

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

Situation in Japan
4- 2\textsuperscript{nd} 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
Expectations of members on the new fields of electricity
Photovoltaic Production Installations in residential

Situation in Lebanon

OEA : Jamal Haydar
MERCI

THANK YOU
4- 2	extsuperscript{nd} session Orientation 2 - Moustapha

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

Situation in Senegal
4- 2\textsuperscript{nd} 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
MERCI
THANK YOU
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
### Synthesis and actions plan

<table>
<thead>
<tr>
<th>2nd day the 17th pm</th>
<th>14:15 - 15:00</th>
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<tbody>
<tr>
<td>Synthesis and actions plan</td>
<td>President</td>
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<tr>
<td>o 3 orientations 4 pillars of Elec. Safety</td>
<td>M Maslowski</td>
</tr>
<tr>
<td>o Functioning &amp; Finances</td>
<td>President</td>
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<tr>
<td>o Findings of the seminar</td>
<td>President</td>
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<tr>
<td>o Decision of seminar</td>
<td>President</td>
</tr>
<tr>
<td>o Closure of seminar and thanks</td>
<td>President</td>
</tr>
</tbody>
</table>
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
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
- ......

5 – Synthesis & actions plan - President
5 – Synthesis & actions plan - President

Decision of seminar : future of Fisuel

➢ Advice from members on findings?
➢ If positive
  o Engagement of all to continue to contribute?
  o Which work organisation in Fisuel?
  o Global actions plan to do (consolidation)?
  o Next score during the Board in March 2024?

➢ Decision:
  o Act to answer to the 3 orientations
  o Define the organisation in Fisuel?
5 – Synthesis & actions plan - President

Closure of seminar and thanks

➢ Resume
➢ Thanks to all
Closing Seminar

MERCI - THANKS