

Minutes of Meeting
WG Gases for switchgear
14th September 2017 - 10h - 16h
Brussels - Orgalime Offices
room South 06

Participants:

Edgar Dullni - ABB
Lukas Zehnder - ABB
Francesco Iannello - ANIE
Philippe Ponchon - General Electric
Nadi Assaf - Gimelec
Paul Schmitz - Ormazabal
Christophe Prevè - Schneider Electric
François Trichon - Schneider Electric (*Chairman of the Working Group*)
Giovanni Zaccaro - Schneider Electric
Peter Glaubitz - Siemens
Joerg Hilse - Siemens
Guenter Kachelriess - Siemens
Etienne Barbier - Inventec
Philippe Bedel - Inventec
Laure Duliere - Orgalime/T&D Europe

Apologized:
















Martin Kristoffersen - ABB
Sundeep Singh - Lucy Electric
José Manuel Inchausti - Ormazabal
Mike Adams - Schneider Electric
Cristine Roth - Swissmen
David Crawley - Ena
Thomas Schwarze - Solvay

The Chairman, François Trichon, opens the meeting at 10:00, welcoming all participants.

1. Approval of the agenda

The agenda is approved.

These documents are part of the MoM:

-  4 - 17-07-06 TDE Strategic Report Presentation WG GFS V2
-  5_1 EPEE meeting 16Oct
-  5_2_1 2017-09 ZVEI draft of SF6 roadmap_en(not official)
-  5_2_1 StromNEV Copy
-  5_2_1 ZVEI 2017-09-12_SF6-Roadmap
-  5_2-2 ecofys preliminary meeting 25Sept
-  5_3 WG-GFS-TFroadmap-cfcall13JULY17-MoM-v2
-  5_3 WG-GFS-TFroadmap-cfcall27JUNE17-MoM-v2
-  6 - SR10_62893vot1_res
-  6 -17_1041e_RQ-nomination convenor -4
-  10 - NIA_WPD_025_1532
-  11 - ST-SG-AC.10-C.3-2017-12e
-  11 - Transportation issue
-  25sept meeting Ecofys - subject to discuss
-  Miscellaneous topics -2017-09-14 GFS

2. Approval of the MOM of WG GFS meeting of 7 June 2017

The MoM of last meeting are approved.

3. Membership

Florian Chapalain from ABB Germany is a new member of the working group, but he is not present at today meeting.

4. Strategic meeting T&D E in Porto: positioning of WG GFS

In July there was the meeting of T&D Europe Executive Committee in Porto and François Trichon shows the slides (enclosed) he presented during this meeting.

5. F-Gas regulation (SF6) 517/2014

5.1. F-Gas Implementation

Update of Regulations on labelling, reporting, training and certification

François Trichon shows the enclosed presentation (Miscellaneous topics). On 16th October he will represent T&D Europe in EPEE Roundtable (European Partnership for Energy and Environment - professional association of manufacturers of heating, cooling and refrigeration equipment). The agenda of the meeting is enclosed.

5.2. Initiative in Germany - project from BMUB

5.2.1. ZVEI answer to Ministry of environment: how to reduce SF6 emissions

There is a non-official translation of the position prepared by ZVEI on how to reduce SF6 emissions. All members ask for an official translation in English of the document. On 15th September, the managing board of ZVEI will approve the draft. Then the final document will be sent to ECOFYS to be integrated in the report. One core message is that replacing of existing switchgear with high leakage rate is the most impactful whatever the technology used (SF6 or SF6 free).

The objective to halve the 2020 emissions by 2030 can be considered by EC members and politics as not enough but 2020 emission represents 40% of 2005 emission in a growing market.

5.2.2. ECOFYS general meeting to be held on 25-26 sept.

François Trichon will represent T&D Europe but other people from companies and national associations received invitation. Enclosed some slides about the meeting. François Trichon prepared a list of themes that he could discuss, on behalf of T&D Europe, also with political representatives of the EU Member States and the European Parliament / Commission who are invited by ECOFYS on the 25th evening (agenda enclosed). He will send to working group members this list asking for feedback in order to prepare a synthesis by Friday 22nd September.

5.3. Action plan vs 2020 Assessment

- Report from SM1: status of regulations and standards

Martin Kristoffersen is not present and we have no update on this SM.

- Report from SM2: status on alternatives: discussion about the last version

Philippe Ponchon, leader of SM2, shows the draft of document that was sent to all working group in order to receive feedbacks. From chapter 1 to chapter 7 there are only few editorial comments to include, but for chapter 8 (perspectives) some technical points are still in discussion. Some points have been clarified but as all the members of the TF were not presents a last confcall need to be planned. The secretary reminds to include neutral members into the discussion. The target is to publish the document as soon as possible and at the latest before beginning 2018, so that it could, at least, be included into the final ECOFYS report.

- Report from SM3: FAQs

The report is finished and published on T&D website.

<http://www.tdeurope.eu/component/attachments/attachments.html?id=747>

- Report from TF about roadmap

Discussion and further steps

François Trichon informs that there were 3 conference calls (MoM enclosed) and a lot of discussion inside this task force. He will prepare a draft document to be discussed before next meeting. The arguments will be based on ZVEI roadmap but as position of ZVEI is based on German market, T&D Europe has enlarge the panel including other European case studies.

- Future Reports.

Suggestion has been made to work on a report making recommendations to follow up switchgear during and beyond service life. This was proposed during the discussion on ZVEI report, as there is a controversial proposal to avoid the switchgear to operate after usual service life. This guideline can help to define criteria for such inspection and is fully in line with T&D Europe mission.

6. Standards

6.1. Revision process of IEC standards dealing with SF6: IEC 60376, IEC 60480 and IEC 62271-4 on technical grades and handling of SF6

Some information in the enclosed presentation and docs.

7. CIGRE studies

There was a meeting in September in Brazil about HVDC and HVAC technologies for network of the future.

There is also a meeting planned on 23rd October for WG B3.45 (alternative to SF6)

8. IEEE Task Force for alternative gasses to SF6

There is still not an official draft of the paper.

9. Documents, papers and conferences

9.1. CIREN 2017 Takeaway

See enclosed presentation (Miscellaneous topics).

9.2. Other papers and conf

Some information in the enclosed presentation (Miscellaneous topics).

10. Ongoing country projects on SF6 and SF6 alternatives

Some information in the enclosed presentation.

11. Miscellaneous

Some information in the enclosed presentation (11-transportation issues) about the fact that it is forbidden to transport equipment with SF6 for ship because of gas under pressure and weight higher than 400kg.

12. Next meeting: date and location




Next meeting will be held on 16th January 2018 from h. 10:00 to h. 16:00 in Brussels - Orgalime Offices.


At 15:45 the Chairman, François Trichon, closed the meeting thanking all participants.

**T&D Europe WG Gas for Switchgear Meeting
Thursday 14 September 2017 10.00 - 16.00**

**Diamant Building (Sixth Floor South)
Green Room
Blvd. A. Reyers 80, 1030, Brussels**

Attending

<i>Name</i>	<i>Company</i>	<i>Signature</i>
Francois Trichon (Chair)	Schneider-Electric	
Etienne Brabier (Guest)	INVENTEC	
Philippe Bedel (Guest)	INVENTEC	
Edgar Dullni	ABB	
Lukas Zehnder	ABB	
Francesco Iannello	ANIE	
Philippe Ponchon	General Electric	
Giovanni Zaccaro	Schneider-Electric	
Christophe Prevé	Schneider-Electric	
Paul Schmitz	ORMAZABAL	
Joerg Hilse	Siemens	

Guenter Kachelriess	Siemens	
Peter Glaubitz	Siemens	
Nadi Assaf	Gimelec	
Laure Duliere	T&D Europe	

Apologised

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Martin Kristoffersen	ABB
Christine Roth	Swissmem
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José Manuel Inchausti	ORMAZABAL
Thomas Schwarze	Solvay
David Crawley	ENA Consulting
Mike Adams	Schneider Electric