



INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

IEC TC100 TA12:

AV energy efficiency and smart grid applications



Jon Fairhurst

Technical Area Manager, IEC TC100 TA12

Manager, Energy, Ecology & Television Standards

Sharp Labs of America, Camas, WA, USA



World Standards Cooperation (WSC)

To strengthen and advance the voluntary consensus-based international standards system of:

- International Electrotechnical Commission**
- International Organization for Standardization**
- International Telecommunication Union**





Facts & Figures

Founded in 1906

First president: Lord Kelvin

Not for profit

82 National Committees:

- 60 full members
- 22 associate members
- Plus 81 Affiliate Countries

171 Committees:

- 94 Technical Committees
- 77 subcommittees

1215 Teams & Groups:

- 441 working groups
- 244 project teams
- 530 maintenance teams

IEC TC100 Title:

AUDIO, VIDEO and MULTIMEDIA systems and equipment

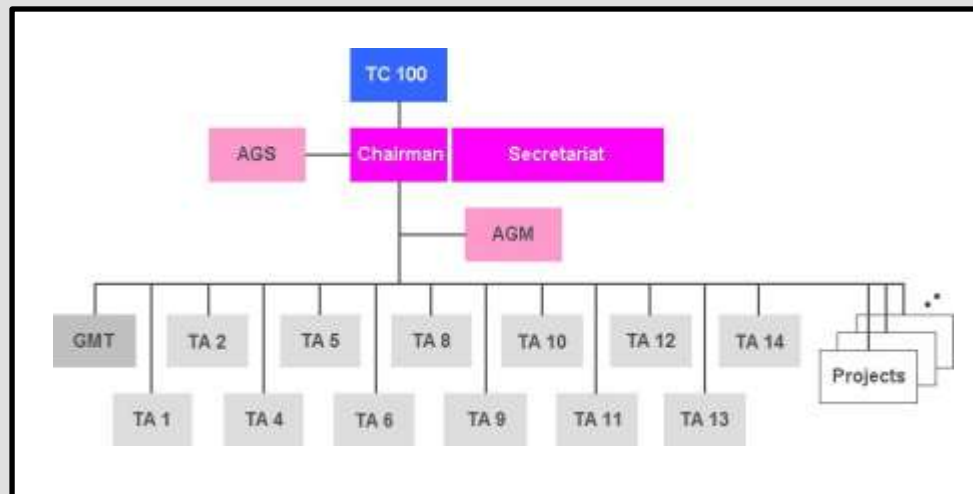
IEC TC100 Structure:

Chair & Secretariat (administration)

AGS (strategy), **AGM** (management)

12 Technical Areas (TAs) & GMT (maintenance)

Direct Projects



Full list of IEC TC100 TAs:

- TA 1: Terminals for audio, video and data services
- TA 2: Colour measurement and management
- TA 4: Digital system interfaces and protocols
- TA 5: Cable networks for television signals, sound signals and interactive services
- TA 6: Storage media, storage data structures, storage systems and equipment
- TA 8: Multimedia home server systems
- TA 9: Audio, video and multimedia applications for end-user network
- TA 10: Multimedia e-publishing and e-book technology
- TA 11: Quality for audio, video and multimedia systems
- TA 12: AV energy efficiency and smart grid applications**
- TA 13: Environmental aspects in the field of audio, video and ICT equipment**
- TA 14: Interfaces and methods of measurement for personal computing equipment**

The TC100 AGM (management) determines the assignment of projects to TAs.

TA12 Title:

AV energy efficiency and smart grid applications

Projects:

- **IEC 62087 Ed. 2.0 (2008), Ed. 3.0 (2011) & Ed. 4.0 (ongoing)**

Methods of measurement for the power consumption of audio, video and related equipment

- **TS 62654 Ed. 1.0 (2012)**

Network-based energy consumption measurement - Energy saving system - Conceptual model.

IEC 62087 - Methods of measurement for the power consumption of audio, video and related equipment

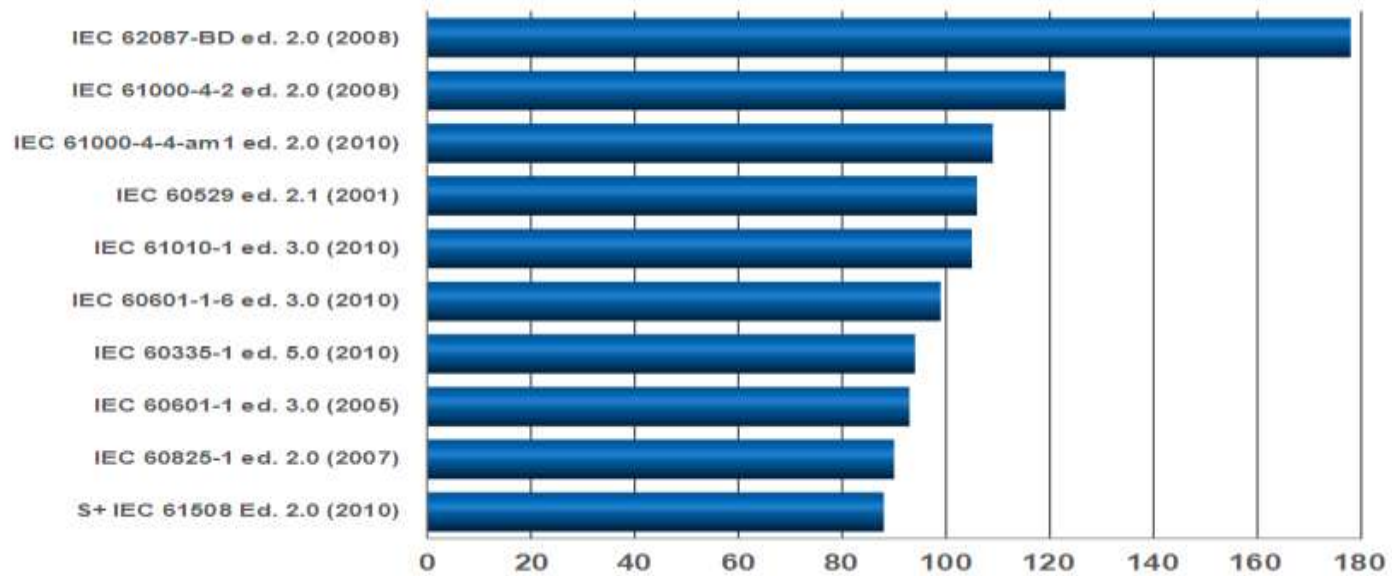
- **The basis of on-mode power measurement, globally**

Especially for TVs & STBs.

- **Being updated & divided into a multipart standard**

1. *General*
2. *Signals & Media*
3. *Television Sets*
4. *Video Recorders*
5. *Set Top Boxes (STBs)*
6. *Audio Equipment*
7. *Computer monitors (proposed as a new item)*





IEC 62087 was IEC's #1 selling standard in 2010



IEC TC100 TA13

Title:

Environmental aspects in the field of audio, video and ICT equipment

Projects:

IEC 62018 Ed1: Power consumption of information technology equipment - Measurement methods (Published by TC108 & transferred to TA13.)

IEC 62075 Ed1: Audio/video, information and communication technology equipment - Environmentally conscious design (Published by TC108 & transferred to TA13.)

PT 100-8: Stage 0 project on "Quantification methodology for greenhouse gas emissions for computers and monitors"

TAM:

Donna Sadowy



Title:

Interfaces and methods of measurement for personal computing equipment

Projects:

PT 62680 Ed1: Universal Serial Bus interfaces for data and power (Parts 1-4)

PT TS 62700 Ed1: DC Power Supply for Portable Personal Computer

TAM:

Mr. S. Matsumura



Standards development

- Performed by **individual experts**

Voting

- One vote per **National committee (NC)**

In the US:

- **ANSI** is the USNC; **CEA** administrates **US TAG**
- CEA's **Alayne Bell** (abell@ce.org) is the US TAG Administrator. (Contact Alayne to join.)

In Canada:

- Standards Council of Canada, **CNC/IEC**
- In the past, TC100 US TAG has “accommodated” Canadians



Project Process

Stage 0 – Started by TC100 (optional)

Generally results in a technical report or technical study

NP – New project

Typically submitted by a national committee. 3 month Int'l vote.

CD – Committee Draft

Once developed, a 2-4 month Int'l review & comment phase

CDV – Committee Draft for Vote

Draft updated from comments. 3-5 month Int'l vote.

FDIS – Final Draft International Standard

Not needed if no negative, normative comments from CDV.

IS – International Standard

The published standard.



Starting an IEC project

People have said to me...

“The IEC should really make a standard for...”

The IEC doesn't write standards, **experts** do.

The IEC doesn't start projects, **motivated people** within NCs do.

The IEC doesn't lead projects to completion: **Project Leaders** do.

If you want an international standard:

- **Join your IEC National Committee**
- **Become an expert on related IEC projects**
- **Prepare an NP**
- **Volunteer as a Project Leader**



Conclusion

IEC TC100 is the **ideal choice** as an SDO for **Networked Standby**.

Success depends on your **participation** in **IEC TC100**.



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Thank you



tc100.iec.ch

Jon Fairhurst

Email: jonf@sharplabs.com