
PAS1878 within the international standard landscape

2nd OpenADR++ Users Conference Europe

19th November 2024

Lee Gould

Standards organizations

An inexhaustive list....



Standards organizations

Focus for today



International



Europe



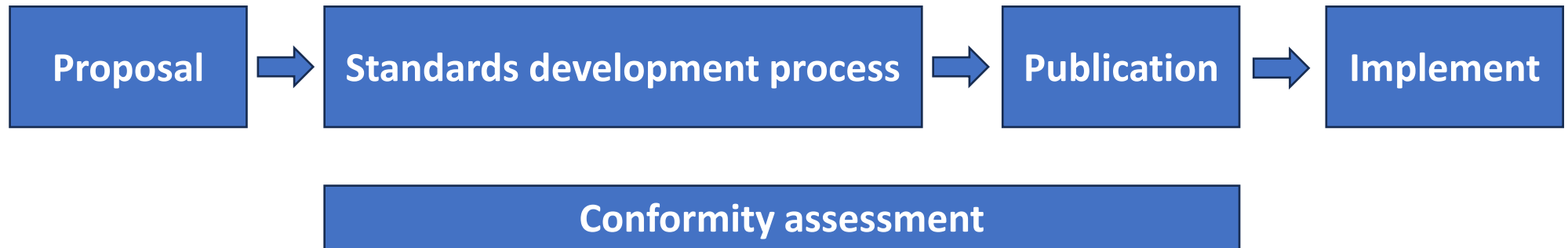
International



Great Britain



Development and usage



~170
countries

A global network that covers 99% of the world population and offers a free programme to developing countries

10 000+
standards

Develops international standards that represent a global consensus of state-of-the-art know-how

1M+
certificates

Four Conformity Assessment Systems that cover the breadth of electrical and electronic technologies

30 000
experts

Over 30 000 experts and more than 100 years expertise

+ indirect involvement at national level

E-tech is available to all and helps to disseminate the activities of IEC standards developers within a wider context

A good way to see what is happening around the IEC



Greentech

Cyber security for renewable energy systems

23 January 2024 by Catherine Bischofberger

Renewable energy systems are increasingly viewed as the weak link in the grid by cyber criminals. The IEC has a number of solutions to thwart them, combining standards and conformity assessment.



Digital age

Getting ready for the quantum leap

Quantum information technology is about to transform our world. Can standards ensure it evolves in a safe and responsible way? IEC and ISO are joining hands to produce the appropriate documents.

7 October 2024 by Clare Naden



Digital age

“In a modern society, electricity is as important as water.”

17 May 2024 by Catherine Bischofberger

Peter Jensen is the Chair of IEC Technical Committee 13, which prepares standards in the field of electrical energy measurement and control, for smart metering equipment and systems forming part of smart grids. He tells...

Home > Issue 04/2024 > Fungal sensors for a smarter home

Smart cities

Fungal sensors for a smarter home

By Priyanka Dasgupta, 4 September 2024

In an innovative project, scientists are turning to one of the oldest group of living organisms, fungi, to solve problems of energy wastage. Discover how experts are leveraging a system of fungal bio-electric sensors to address smart and sustainable living.



Wide band dissemination: Basecamp

Basecamp

You find here everything the IEC has available in terms of information, briefing papers, presentations, multimedia tools, and much more, so that you can better understand and explain the many aspects of IEC work to the outside world

Search here...



Type: Technology reports

Date: 2024-01-19

Language: English

Download: 4.97 MB

Smart sensing for future power grids

There has been a surge in the digitalization and integration of renewable energy resources into electric power grids to enable...

[Resource entry →](#)



Type: Technology reports

Date: 2023-10-20

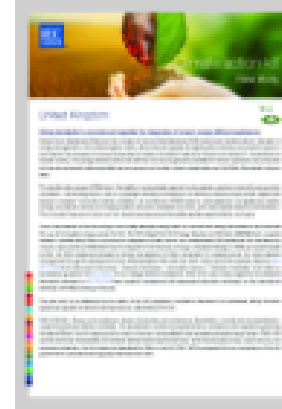
Language: English

Download: 1.85 MB

Smart Standards – From a market and industry perspective

The report emphasizes the need for an evolution in standards to meet market expectations in the near future. It notes...

[Resource entry →](#)



Type: Climate action kit

Date: 2023-10-02

Language: English

Download: 372.65 KB

Case study – United Kingdom

How Energy Smart Appliances (ESAs) and the concept of Demand Side Response (DSR) have proven transformative in the realm of...

[Resource entry →](#)

Source: <https://www.iec.ch/basecamp>

Narrow band dissemination: General pages



About us

We are the IEC System Committee Smart Energy

We aim to provide a "GPS or Radar" to the TC/SCs and to other Standards Development Organizations (SDOs) and Consortia, related to standardization in the Smart Energy domain.

Our goal is to enable the entire community operating while helping stakeholders to identify their position in the whole system that they are contributing to.

One concrete approach consists of collectively elaborating on a master Development Plan to visualize new ideas under consideration by the TCs/SCs and other SDOs, much earlier than when they are effectively implemented.

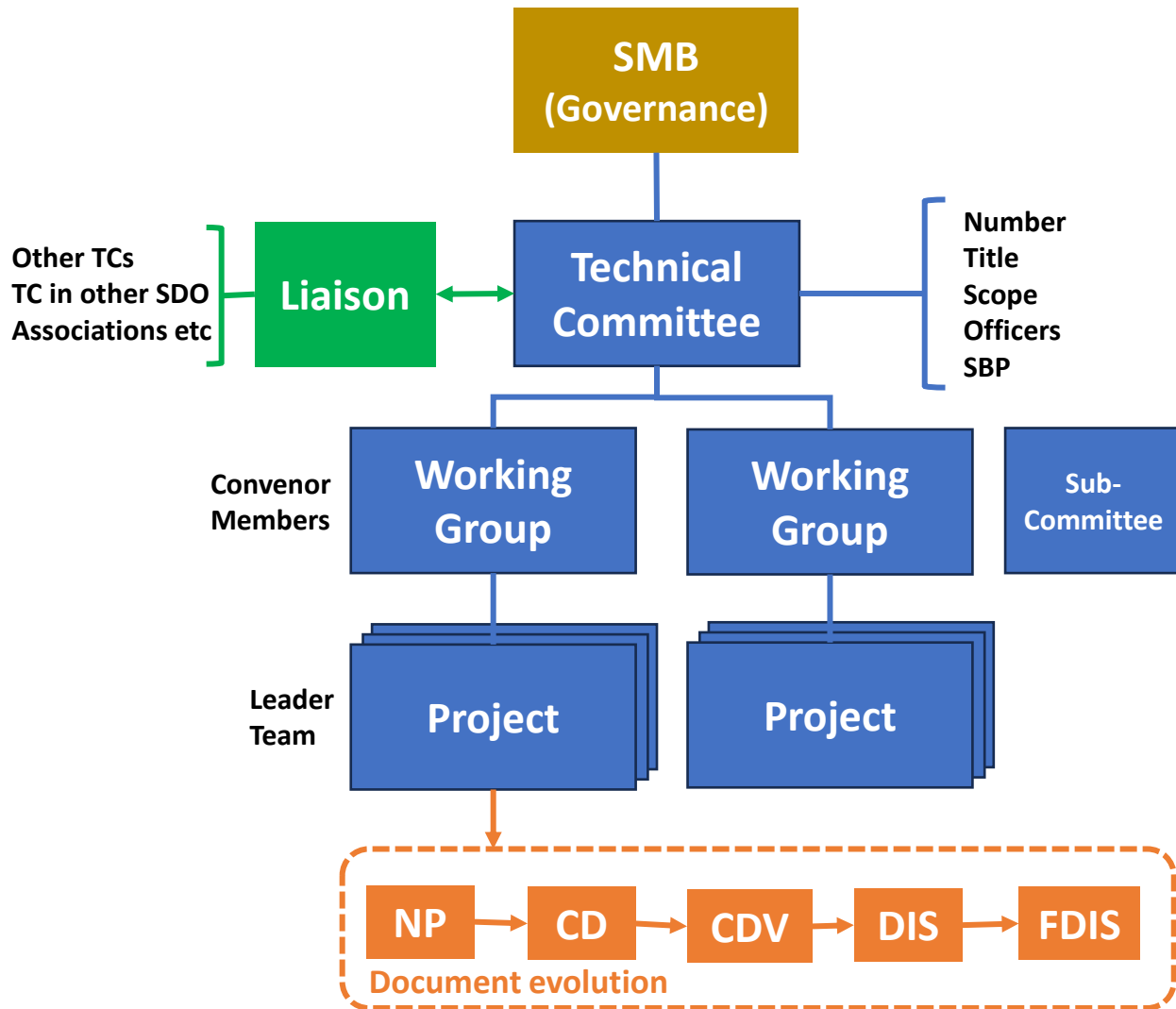
That approach should help in preventing, rather than resolving potential conflicting activities which are increasing regarding systems.

Many IEC Technical Committees maintain sites that provide easy to view information about:

- Aim and role
- Main challenges and expectations
- Activities
- Publications and roadmap
- Background information
- How to get involved

Source: <https://syc-se.iec.ch/#about>

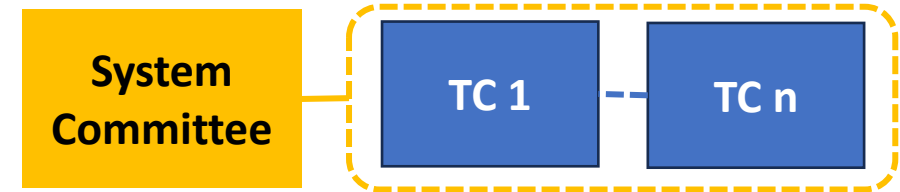
How standards are developed: Committees



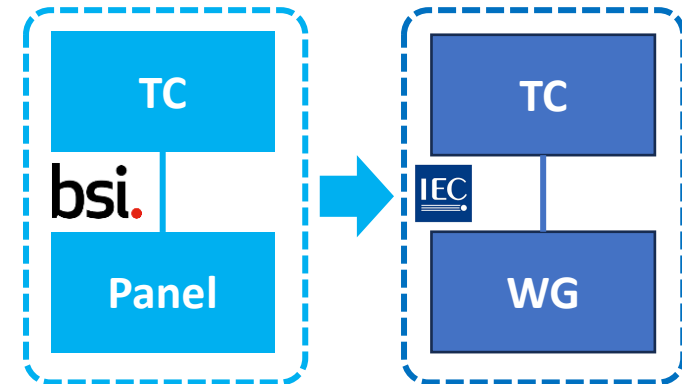
Joint working



Wider view



Resource and Influence



Technical Committee information: Dashboards



SC 23K Electrical Energy Efficiency products

Scope Structure Projects / Publications Documents Votes Meetings Collaboration Platform

en fr

SC 23K Scope

Standardisation in the field of Energy Efficiency products, systems and solutions, to be used in existing and new electrical installations, for monitoring, measuring, controlling, managing and optimizing the overall efficient use of a.c. and d.c. electrical energy for household and similar.

Further information

Secretariat France

Contact [TC 23/SC 23K Officers](#)

Terminology

Electropedia | Abbreviations & acronyms

Privacy | Contact | FAQ | Careers | IEC Offices

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SC 23K Electrical Energy Efficiency products

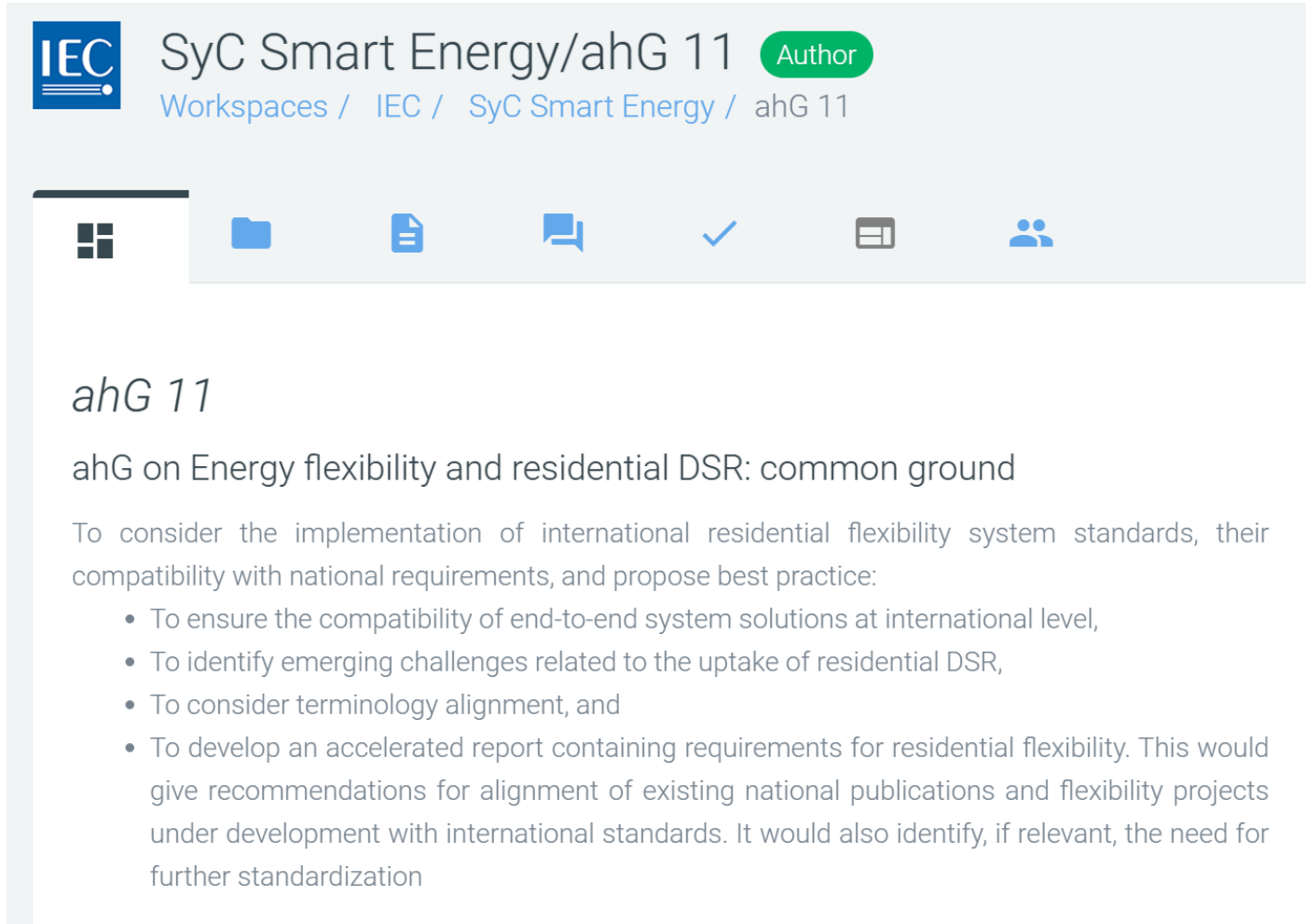
Scope **Structure** Projects / Publications Documents Votes Meetings Collaboration Platform

Membership Officers Liaisons **Working Groups**

SC 23K Subcommittee(s) and/or Working Group(s)

Label	Title
Working Group	
WG 1	Energy efficiency products
WG 3	Customer Energy Management Systems

GB initiative in IEC SyC Smart Energy



The screenshot shows a OneDrive workspace interface. At the top left is the IEC logo. The main title is 'SyC Smart Energy/ahG 11' with a green 'Author' badge. Below the title is a breadcrumb trail: 'Workspaces / IEC / SyC Smart Energy / ahG 11'. A toolbar contains icons for a grid, folder, document, chat, checkmark, calendar, and people. The main content area displays the title 'ahG 11' and the subtitle 'ahG on Energy flexibility and residential DSR: common ground'. The text below reads: 'To consider the implementation of international residential flexibility system standards, their compatibility with national requirements, and propose best practice:'. This is followed by a bulleted list of four items.

IEC SyC Smart Energy/ahG 11 Author

Workspaces / IEC / SyC Smart Energy / ahG 11

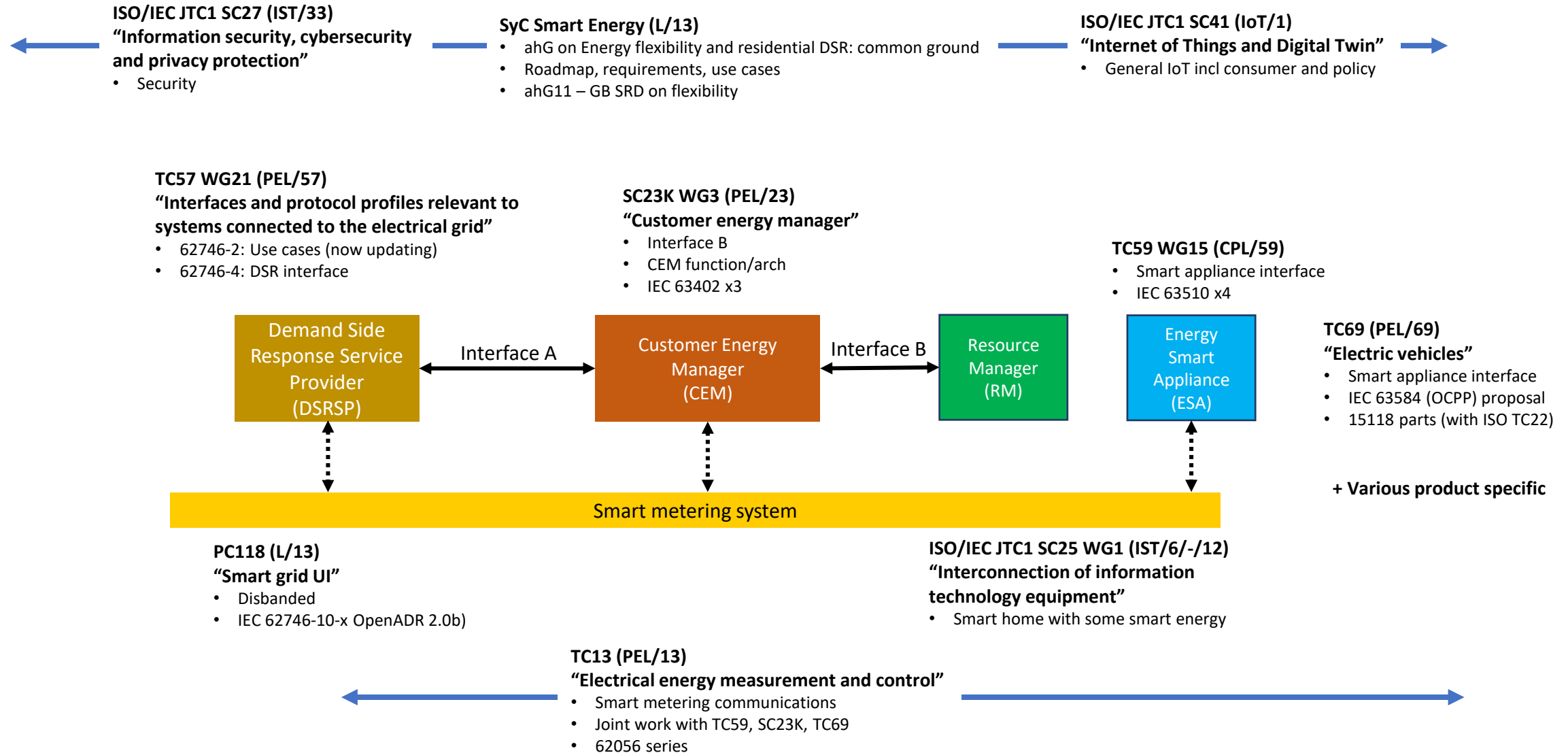
ahG 11

ahG on Energy flexibility and residential DSR: common ground

To consider the implementation of international residential flexibility system standards, their compatibility with national requirements, and propose best practice:

- To ensure the compatibility of end-to-end system solutions at international level,
- To identify emerging challenges related to the uptake of residential DSR,
- To consider terminology alignment, and
- To develop an accelerated report containing requirements for residential flexibility. This would give recommendations for alignment of existing national publications and flexibility projects under development with international standards. It would also identify, if relevant, the need for further standardization

PAS1878 within the IEC context



End

Many thanks