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01_Eye catcher:

AIE calls for more "active" energy efficiency for buildings



Focus more on ‘active energy efficiency’ is AIE’s main message in its position on the review of the Energy performance of Buildings Directive.

The AIE’s position paper highlights the importance of the life-long building **operation phase** and the benefits for the end-user of more and better **measurement, monitoring and control** of their energy usage through integrated solutions. This way the end-users also participate actively to the energy market whilst improving their comfort in residential and commercial buildings or the efficiency of industrial processes.

AIE has set out concrete recommendations on how to improve energy efficiency, increase renovation, increase awareness and investments by **integrating active monitoring of real-time energy consumption / energy management systems and increasing control and automation systems**. Simultaneously better **communication and information campaigns** should be organized at local, regional and national level to enhance customers’ awareness and knowledge who will then create the demand for solutions and make informed decisions. From the supply and contractors’ side, technical professionals should be involved as soon as possible in the construction/renovation projects to be able to propose the energy savings potential of technical building systems.

To raise consumer confidence in a.o. the Energy Performance Certificates, the AIE calls for:

- **minimum verification requirements** of the existing electrical and electro technical systems in buildings as to ensure a maximum efficiency during their operation and the safe implementation of smart technology and the Internet of Things.
- the **review of the primary energy conversion factor** initiated by the Commission which ‘punishes’ electrical products and systems (because of the factor) and is misleading the consumers in their choice when purchasing products.

> **The AIE position paper** is available [and downloadable here](#).

02_European news [Directives / Projects / Events]

02-01: Launch of SolarPower Europe Report on Solar and Storage



On 26 May 2016, SolarPower Europe launched its new report 'Ahead of the pack - Solar as the new Gateway to the decentralised Energy World?'

Abstract of the report:

New dynamics are taking place in the European power sector. The strong cost decrease of distributed generation and storage technologies makes our energy system more decentralized but

also, and more importantly, transforms the way value is created.

Against this background and in order to shed some new light on the current debate around prosumers, this report analyses different policy scenarios. It models - for three representative European markets - several combinations of solar and storage solutions. Each time, various options are considered depending on how the self-consumed and injected solar electricity is remunerated. This approach allows to better estimate the concrete economic benefits for end-consumers and, from there, to explore how energy suppliers - incumbent or new entrants - will be able to capture business opportunities by creating new value propositions for their customers. These new offers will in turn make distributed generation smarter and more system relevant. In this new decentralised world, solar will become a new factor of performance and differentiation amongst energy suppliers. Some may decide to continue operating in a business as usual mode. Others will seize this new opportunity, create new business models, and run ahead of the pack.

In this framework and to increase closer relationship, Evelyne Schellekens of AIE met at the end of April with the CEO of SolarPower, Dr James Watson, to exchange view points on the future shape of electricity markets, the legislative proposals on the Renewable Energy Directive expected in the second half of the year and how to develop business models where our members companies – being the first-line contact point of the customer – are not forgotten, because of their crucial role towards the end-customer in proposing energy solutions and making the energy transition happen!

> **AIE members can download the report** in the AIE intranet/[current issues](#) or [Policy Area/Renewables](#)

02-02: European Energy Efficiency Platform launched



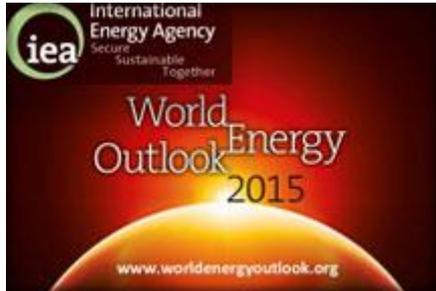
The European Energy Efficiency Platform is a one-stop shop for energy-efficiency data and knowledge, helping policy-makers and experts more quickly reach energy-savings goals.

The European Energy Efficiency Platform (E3P) launched on 5 April 2016 aims to help policy-makers, public and consumer bodies, researchers and industry to meet the strategy's EU-wide target of 27 % energy savings by 2030. **Hosted by the EU's Joint**

Research Centre, the platform is organised around six themes –products, cities, buildings, transport, industry and distribution (heating, cooling and electricity).

E3P provides online collaborative tools which help experts share information, identify priority sectors for energy-saving measures and avoid duplicating efforts, to generate knowledge and provide insights for energy-efficiency policies. **> The AIE has contacted the Platform to see how and if AIE can be involved in the work.**

02-03: Key Findings on World Energy Outlook 2015



On Tuesday 19 April, the AIE attended the presentation of the International Energy Agency (IEA), on the “World Energy Outlook 2015”.

Not surprisingly, this latest [World Energy Outlook](#) publication also sees clear signs that the energy transition is underway, but warns strong direction is needed from next climate summits.

> An extended period of lower oil prices would benefit consumers but would trigger energy-security concerns by heightening reliance on a small number of low-cost producers, or risk a sharp rebound in price if investment falls short, says the International Energy Agency (IEA).

"It would be a grave mistake to index our attention to energy security to changes in the oil price," said IEA Executive Director Faith Birol. "Now is not the time to relax. Quite the opposite: a period of low oil prices is the moment to reinforce our capacity to deal with future energy security threats."

> Lower prices alone would not have a large impact on the deployment of renewables, but only if policymakers remain steadfast in providing the necessary market rules, policies and subsidies.

There are clear signs that an energy transition is underway: renewables contributed almost half of the world's new power generation capacity in 2014 and have already become the second-largest source of electricity (after coal). Their deployment grows worldwide, with a strong concentration in the power sector where **renewables overtake coal as the largest source of electricity generation by the early-2030s. Renewables-based generation reaches 50% in the EU by 2040, around 30% in China and Japan, and above 25% in the United States and India.**

Post COP21 we can state that:

1. **In 2015 there was a clear energy & climate change with low prices of fossil fuels**
2. **India** has become the **next increasing demander of energy** (1.2 bio people have NO access)
3. For the first time, **CO² emission was the same for 2 years** and economic growth started slowly.
4. **Renewable electricity expended at its fastest rate in 2014**, despite a sharp fall in oil prices, which is again healthy for the renewable industry.
5. **The energy cost has declined since the Copenhagen meeting in 2009:**
 - a. 40% cost down by wind energy sector
 - b. 60% by PV solar sector

- c. 90% by the lighting sector (LED)

6. The signals turned green since the Paris agreement!

The 22nd session of the Conference of the Parties (COP 22) to the UNFCCC is expected to take place in from 7-18 November 2016 in Marrakech, Morocco.

- > Read [the full Press Release of Nov 2015 given in London](#)
- > View the [presentation of London at YouTube](#)

03_ Sector related news

03-01: Greater AIE visibility at Euroskills 2016 in Gothenburg | 1-3 Dec.



The AIE participated on 19-20 April to the Worldskills Europe (WSE) General Assembly days. Days during which Evelyne Schellekens participated to the strategic, marketing and communication meetings. As an associate member of Worldskills Europe the AIE's objective as sector partner is to promote the electrical sectors skills, visibility and attractiveness. In this context, it is of the utmost importance that the AIE at European and its members at national level are closely involved with the World Skills

Europe teams both at European and national level.

PCC MEETING DURING EUROSILLS on 2nd DECEMBER

The Policy Coordination Committee decided to meet on the 2nd of December during the competition and Thomas Carlsson, AIE's President Ad Interim at the moment will hand out the competitions award to the candidate on the Awards' evening.

Next Euroskills competition will be held in Goteborg from 1-3 December 2016, at which yet 17 European countries have registered in the category 18, Electrical installations. Emphasizing that competitions are not only a positive education benchmarking tool, but equally accelerate the personal development of youngsters in their career, Euroskills can surely also be considered as a labour tool!

We invite our members to consider the possibility to come and meet together at the Euroskills competition in December, take the opportunity to network with the national education and skills teams whilst simultaneously see and encourage the young people of the future! In that view the Social Media and Communications group (SMC) will talk about practical engagement to promote the 2016 competition of Electrical Installations 18.

> Next Steps:

- > 20.09.16 | (or 3.10.2016) – to be confirmed **TF SMC**: Skype or real-time meeting in Brussels
- > 02.12.16 | **PCC meeting** during Euroskills
- > 03.12.16 | **Hand-out Euroskills award** on by AIE President Thomas Carlsson
- > 01-03.12.16 | **Live blogging** during the competition by AIE secretariat and **hand-out AIE certificate to all candidates for showing their excellence on site.**

03-02: AIE connecting with members [ECA, EIO, FFIE, NELFO, UNETO-VNI, ZVEH]

A lot of events happened during May and June, also at national level and for the national member associations of AIE. After a **very well attended General Secretary's meeting in Stockholm at the Swedish member EIO** on 12 May, **Evelyne Schellekens, Secretary General of AIE, participated to ZVEH's Congress and Annual Event in Maagdenburg, Germany**. This high level event focused on the digitalization and its impact within and for the electrical value (see article infra). Likewise she met during the **Sustainable Energy Week in Brussels** with the Delegation of **AIE's Norwegian member, the Energy Committee of NELFO** at whom she presented the current hot EU topics for AIE, the related AIE's activities and work.

The AIE had equally the pleasure to **welcome the new President of AIE's French member FFIE, Monsieur Emmanuel Gravier, in the AIE premises** for a most interesting and positive discussion and up-date on AIE's current topics and issues. A short trip to the Dutch AIE member, UNETO-VNI led to an **up-date of both the AIE activities and the current priorities in the Netherlands**. Early July she will then **participate to ECA's annual Congress**. Meeting, sharing and exchanging with members and members companies, remains very important for the AIE.

03-03: ZVEH Annual Conference on 17-20 May: Digitization and Services in Focus



From 17 to 20 May representatives of the Federation, together with the delegates from the state regional associations discussed the impact of digital technology on work processes, business models, service requirements and much more. Evelyne Schellekens as General Secretary of AIE had the pleasure to attend this interesting event together with high-level guests.

PROGRESSION THANKS TO GOOD ECONOMICS

ZVEH President Lothar Hellmann stressed at the general meeting that 'E-Crafts' work with a lot of confidence to face the challenges of digitization and can take advantage of related opportunities. The recent economic survey of ZVEH demonstrates that over 94 percent of the companies assess their current business situation positively. Nine out of ten also anticipate a steady development at higher level or even an improvement. "Let us use this momentum, within the dynamic markets" says Hellmann. He referred in particular to business related to energy efficiency, energy management, building automation and electric mobility.

INTERACTION WITH INDUSTRY AND WHOLESALE

Hellmann also stressed that by the rapid development of digitization, the interaction with the partners from industry and wholesale stands before new tasks. "The product of the future will be the perfect service. We must adapt ourselves together with our partners in the tertiary distribution and offer the best possible service," Hellmann said. He explained that above all each partner has to strengthen its individual strengths.

There was agreement more than ever at the General Assembly, that special attention must be paid to the issue of training in order to remain successful in the rapidly changing markets. The current trend is encouraging, as reported by Hellmann: "With the new training contracts we have achieved an increase of 4.7 percent compared to last year. This demonstrates the attractiveness of our professions and our good work in youth development.

> More info on ZVEH: www.zveh.de

03-04: EU Sustainable Energy Week (EUSEW) 2016: Policy Conference, Debate Sessions & Networking -14 to 16 June



The high point of EUSEW is the annual Policy Conference featuring leading figures and a diverse programme of sessions and side-events aimed at discussing and shaping Europe's energy future.

The **Policy Conference** is the most important European conference dedicated to sustainable energy policy issues. **The programme ran over the three days** with approximately **43 speakers**.

Parallel sessions organized by the European Commission and **energy stakeholders' debate** new policy developments, best practices and sustainable energy ideas.

The AIE attended several sessions amongst which the main policy conference, the session on renewables 'Energy storage for prosumers', the session on energy efficiency 'A business opportunity for SME's and on 'Engaged consumers driving the energy transition'.

> These days were followed by the joint meeting of an ad-hoc consultation forum under the Energy Efficiency Directive and the Ecodesign Consultation Forum **on the "Primary energy conversion factor"** held on **Friday, 17 June 2016, obviously attended by AIE's experts and AIE General Secretary Evelyne Schellekens.**

More items on EU SEW: [Energy Days](#)

03-05: Energy Storage Europe trade fair grows by more than 60 per cent.

The Energy Storage Europe 2016 (ESE) trade fair and conference and the 10th International Renewable Energy Storage Conference (IRES 2016) by EUROSOLAR ended with the adoption of the "Düsseldorf Statement". The statement focuses on the requirements for national and regional policy to continue the energy revolution and storage expansion required for this.

Prof. Dirk Uwe Sauer, Member of the IRES Scientific Advisory Board said:

"Energy Storage Europe shows that industry and research have realised the cross-sector importance of combined solutions for power, heat and gas storage and are actively preparing or already offering solutions for this.

SUMMARY OF THE DÜSSELDORF STATEMENT

The Düsseldorf Statement calls for a clear, regulatory framework for the market launch of storage solutions. **An important flexibility option is that storage must be able to operate on the market equally on both the network and generation side with other flexibility options.** Storage solutions may provide a number of services conducive to the system – services to promote the integration of renewable energies, to increase energy efficiency and to stabilise the networks. The technologies are ready for the market. And the market is the greatest innovation driver to continue to advance the use of storage for the energy revolution.

The statement also calls for barriers to be removed between the power, heat, gas and fuel markets to allow for sectors to link up. Important future technologies such as **'Power-To-X: Entering the Energy Transition with Kopernikus'** [coordinated by RWTH Aachen University, Research Centre JÜLICH and DECHEMA]* will be severely hampered if the rigid segregation of sectors is not removed. **A clear statement of belief in storage is required from politics.**

***Note:** The aim of the Kopernikus projects (4 in total) is to develop technologies in the next ten years that advance the reconstruction of the energy system in important sectors. **The major project Power-to-X focuses on the storage of excess power into other energy carriers.**

> **The next dates for Energy Storage Europe** have already been confirmed:

Energy Storage Europe 2017 – 14 March - 16 March 2017

Energy Storage Europe 2018 – 13 March - 15 March 2018

www.energy-storage-online.com | Download the [full press release here](#)

03-06: SBS signs up to the Commission's Joint Initiative on Standardisation.

Source: SBS Newsletter 13.06.2016 / Picture European Commission



On 13 June, SBS signed up to Joint Initiative on Standardisation in the presence of Commissioner Elżbieta Bieńkowska. This initiative focuses on 15 concrete actions aimed at modernising, prioritising and streamlining the delivery of standards by the end of 2019, some of which are specifically designed for smaller companies. The signature relates to the publication by the European Commission early June of a series of documents relating to standardisation. These documents highlight the

increasing recognition of standards at EU level and the importance of better integrating SMEs in the standardisation process so as to ensure that standards can be used by smaller companies.

Importance for AIE could be the action 11 (see p13, Pilot Project) on the 'Increased use of standards in Public Procurement to better implement the public procurement Directives stating that currently, there is a rather low use of standards in Public Procurement, which means that suppliers face numerous, different requests and various definitions in the 'suppliers documents', resulting in higher costs and inefficiency in procurement.

Approximately, 2% of goods and services in public procurement cross the borders today in the EU. *“Therefore, practical and concrete actions should be envisaged, such as a guide, for how to use standards in combination with the new procurement directive. In order to improve the current situation, it would also be important to find out how Member States deal with the use of standards in public procurement in terms of structure, tools, guides, education etc. A study or analysis could be considered in that context.”*

> The full Joint Initiative on Standardisation [can be downloaded at SBS' website](#)

04_ Future events <http://www.aie.eu/aie/page/Events>

Please don't forget to take a look on the AIE website for more future AIE meetings in 2016 and save the following dates:

> **08-10.09.2016** | **AIE COUNCIL OF DELEGATES** | Oslo, Norway – Most delegates have been registered and we are working at the Conference, Strategic and Council programme! We love to be welcoming you soon in Oslo!

> **15.09.2016** | **JOINT EVENT AIE - EBC** | Date to be confirmed

> **01-03.12.2016** | **EUROSKILLS** | Gothenburg, Sweden

On 1–3 December 2016, young people up to the age of 25 from all over Europe will meet in Gothenburg to compete for the European title in vocational skills. This is the first time that the competition will be held in Scandinavia. EuroSkills is Europe's biggest skills competition and aims to improve the quality, status and attraction of vocational training. **So many member countries of AIE will have young, sharply skilled representation again, competing in the single trade of 'Electrical Installations'!** So surely save the date and visit the competition booth!

AIE is associate member of [WorldSkills Europe](#) and reports lively on the competition through Blog and Facebook. View [our info pages](#) at the AIE website.

More info on the competitions' official site: <http://euroskills2016.com/en/>

> **OTHER EUROPEAN EVENTS** – see our [AIE webpage](#)

05_ Publications – check [new AIE and related publications at our library on ISSUU](#)



AIE members and other related organisations from the electrical value chain are invited to inform us on interesting articles, brochures, scientific reports that can be added to our AIE online ISSUU Library!

New!! ISSUU Clip IT lets you share and comment on any part of a publication that inspires you.

05-01 CLIP IT: Toys for the big boys – article on European Grid Storage

Source > Energy Storage Journal - issue 11 Winter #ClippedOnIssuu
<https://issuu.com/rizzo48/docs/esj11.issuu.1/c/smcxc4l>

Extract: *In Europe, battery storage for renewable is now a cost-effective technology – but only for utility-level deployment, as demonstrated by recent developments in Germany and the UK. Sara Verbruggen (associate editor ESJ) reports.*

For Europe’s energy storage players, large and small, the US continues to represent the land of opportunity. Utility mandates, changes to ancillary service market rules, peak electricity demand charges, scaling back of solar photovoltaic incentives – the list goes on – have all contributed to a diverse market place, where applications for energy storage in-front-of and behind-the-meter are fast-emerging. In Germany, Europe’s largest deployment of behind-the-meter battery storage – for the residential PV self-consumption market – has required subsidies to make such investments attractive and to dis-incentivize pure PV adoption. However, subsidies or incentives of any kind are unlikely to be forthcoming in other austerity-gripped countries like the UK, which is tipped to be one of the next markets for solar self-consumption, along with Italy. ...

05-02 CLIP IT: Joint EASE/EERA recommendations for a European Energy Storage Technology development Roadmap towards 2030 – [AIE Library at ISSUU](#)

The European Association for Storage of Energy (EASE) is the voice of the energy storage community, actively promoting the use of energy storage in Europe and worldwide. EASE actively supports the deployment of energy storage as an indispensable instrument to improve the flexibility of and deliver services to the energy system with respect to European energy and climate policy. EASE seeks to build a European platform for sharing and disseminating energy storage-related information. EASE ultimately aims to support the transition towards a sustainable, flexible and stable energy system in Europe. This roadmap is aimed at decision-makers, stakeholders and technical experts.

Energy storage technologies are crucial for achieving the European climate energy objectives as defined in the European Union’s (EU) “20-20-20” targets and in the European Commission’s (EC) Energy Roadmap 2050. However, in order to achieve the 2050 targets an intermediate step is required and that is the reason why both EASE and EERA adopted the 2030 as timeframe for this exercise.

This Roadmap outlines European Research, Development & Demonstration (RD&D) needs for energy storage in a given timeframe, defining major areas where actions are necessary to achieve the level of technological maturity for energy storage market uptake. It also provides high-level recommendations on market design defining EU-wide minimum requirements to support the development of a business case for energy storage.

PERSPECTIVES FOR ENERGY DEMAND AND SUPPLY IN EUROPE FOR 2030 AND 2050

According to the IEA (International Energy Association), electricity will play a central role in the future energy system and its consumption is likely to double at global level in its 2 degree scenario (2DS).

To achieve the 2DS and a low-carbon economy massive deployment of low-or zero-carbon technologies is needed. In fact, this scenario foresees that the use of renewable energy sources (RES) grows rapidly and they generate more than half (57%) of global electricity, with solar and wind each providing around 15% in 2050.

The same picture is true also for the EU:

- Growth in EU electricity demand by 2050 is somewhat smaller than globally, but power production still increases by nearly 50% from today's levels.
- In the 2DS scenario, the European electricity mix is also largely decarbonised.
- Wind, solar and hydro all play an important role.
- Nuclear power will be an important part of the European energy mix.

The massive deployment of low-or zero-carbon technologies will require substantial investments in low-carbon technologies over the next four decades. European countries are the frontrunners when it comes to the deployment of RES, mainly driven by national support policies. EU countries accounted for 27% of the global wind capacity added in 2010, and for 17% of the solar one. France ranked among the Top 10 countries in new wind and solar PV capacity built in 2010 (rank 7 in each case). Nevertheless, in the 2DS, investment efforts in the EU have to be intensified over the next four decades for many RES, but also for nuclear and Carbon Capture and Storage (CCS) compared to the slow deployment over the last five years.

FURTHER ISSUES WITHIN THIS ROADMAP:

- > **How can energy storage support present political goals?**
- > **Why is Electrical Energy Storage needed in the future energy system?**

The complete roadmap can be viewed at AIE Library at ISSUU and can be downloaded at the [original site of EERA-SET.EU](http://original.site.of.EERA-SET.EU).

05-03 CLIP IT: [Book Review](#): “Big Data: A Revolution That Will Transform How We Live, Work, and Think”

“Big data” — we hear the term all of the time, but what does it really mean?

Viktor Mayer-Schönberger and Kenneth Cukier's 2013 bestseller, [“Big Data: A Revolution That Will Transform How We Live, Work, and Think,”](#) attempts to answer this question with a solid overview of the promises, advancements, issues and implications of the big data revolution.

> **Published on 27 Jun 2015 - <https://www.youtube.com/watch?v=0fCg55KbF08>**

Speech of Prof. Dr. Viktor Mayer-Schönberger, University Oxford, UK

“Energy- and Data streams are growing together! How can we build this future connection?”

European Association of Electrical Contractors

“ELECTRICITY SURROUNDS US – TOUCHES EVERY ONE OF US, EVERY DAY, EVERYWHERE. Who we are: The AIE – the European Association of electrical contracting companies - represents through its 18 national member associations about 137,000 specialist contracting companies employing about 1,300,000 workers in the EU-countries and beyond. The AIE represents companies from all sizes, the big majors and a majority of small and medium size enterprises [SME]. AIE member companies have an in-depth knowledge and high-quality expert skills to carry out all kind of electrical engineering and infrastructure works [high, medium and low voltage]. The overall turnover of the sector is approximately 158 billion Euros. Monitoring the EU agenda/Directives relevant for the electrical sector, the AIE points out the key strategies and main priorities for the modern electrical contractor. With the increasing complexity of technical installations, the private consumer and house owners are becoming more and more dependent on the knowledge and creativity of the electrical contractor. He is an expert adviser who is able to explain to the client the possibilities and advantages of new technology in a technical and environmental way. Kindly visit our website: www.aie.eu or contact us at info@aie.eu.