



Workshop for Industrializing Countries
&
Technical tour to PTB Headquarters
Braunschweig – Germany
11-12 October 2016

This year, the Workshop for Industrializing Countries will be held in Braunschweig in collaboration with the German National Metrology Institute PTB (Physikalisch-Technische Bundesanstalt). It will consist of a workshop on quality infrastructure and renewable energy (see programme) and will be followed by technical visits. Priority will be given to IEC Affiliate Countries and Associate Members on the basis of four delegates per country. PTB will sponsor up to 100 delegates according to the following criteria:

- **ALL Affiliate Countries** will be fully sponsored with a maximum of 4 delegates per country.
- **Associate Members** from countries mentioned on the [OECD DAC list](#) will be fully sponsored with a maximum of 4 delegates per country.

NOTE - Full sponsoring includes transportation from Frankfurt to Braunschweig and back, hotel and breakfast in Braunschweig

- **Other delegates**¹ can participate providing they cover their accommodation (76.00 euros for a single room including breakfast)

Transportation from Frankfurt to Braunschweig and back by bus will be free of charge (maximum 120 persons), including snacks in the bus.

Registration will close on 31 August and accreditation will be done on 1st and 2nd September.

¹ Other delegates may include: Non-sponsored Affiliate and Associate Member delegates, Full Member delegates, invited Organizations, and IEC staff

Concept note

Background and development policy context

Improving access to energy for people in rural or remote areas is a key concern for many developing economies. Given the costs of grid-extension and possible geographical constraints, off-grid or micro-grid systems based on solar, wind or biomass energy present a promising option to address this challenge. Similarly, covering electricity demand of households and small communities with locally produced renewables is becoming more widespread in industrialised countries, as the establishment of energy self-sustaining communities – for instance in Germany - demonstrates.

The reliability and efficiency of micro-grids based on renewable energy (RE) depends to a large extent on the application of international standards developed by IEC and ISO. However, the effective functioning of the “energy chain” requires the availability of additional core elements of the technical infrastructure such as measurements, conformity assessment and accreditation – in short: quality infrastructure. Developing adequate competences, interlinking expertise and transferring international good practices in this area is therefore indispensable to facilitate a successful strengthening of renewable energy systems.

Objectives and target group of the tour

The technical tour will provide a forum to facilitate exchange and knowledge-sharing on the role and contribution of quality infrastructure services to renewable energy systems with a focus on solar energy, as well as on the question how interoperability and safety are realized through utilizing common standards. In addition, the tour will offer the opportunity to gain insights into RE-related activities of a National Metrology Institute such as PTB which ranks among the leading metrology institutes in the world (<http://www.ptb.de/cms/en.html>). Besides, the tour will include a visit to a demonstration project in the area of RE, i.e. Germany's first self-sustaining “bio village”. The ultimate objective of the tour is to encourage the use of international standards and recognised conformity assessment schemes for (decentralised) RE systems for rural electrification.

Sponsoring and organisational support

The technical tour will be co-organised by DKE (German Commission for Electrical, Electronic & Information Technologies) and PTB and financially supported by PTB within the framework of its International Technical Cooperation, funded by the German Ministry for Economic Cooperation and Development (BMZ). The sponsorship comprises i) return bus transfer from Frankfurt to Braunschweig, ii) accommodation for one night in Braunschweig, iii) catering / snacks during the entire trip.

SCHEDULE

Tuesday 11 October

18:00	Departure from Frankfurt (pack dinner on the bus)
22:30	Arrival to hotel in Braunschweig

Wednesday 12 October

7:30	Pick up from Hotel to PTB Conference Room	
8:30	Workshop for Industrializing Countries (WIC) (see programme)	
11:30	Visit to PTB laboratories (areas of work: renewable energy / energy efficiency)	
	NC/NEC Officers (Group 1)	Other delegates (Group 2)
13:00	Departure to Frankfurt for NC and NEC Presidents and Secretaries (pack lunch on the bus)	Departure to Bio Energy Village (pack lunch on the bus)
15:00		Field visit to the <i>Bio-Energy Village</i>
17:30	Arrival in Frankfurt	
18:00		Departure to Frankfurt
19:00	NC President dinner in Frankfurt	
21:00		Arrival in Frankfurt

Group 1: accompanied by Françoise Rauser

Group 2: accompanied by Affiliate Coordinator and Assistant

Facilitator:

Françoise Rauser (Mrs)
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Workshop for Industrializing Countries
Quality infrastructure and renewable energy systems –

Tapping expertise for capacity development

Wednesday 12 October 2016

8:30 – 11:10

Braunschweig, Germany

PTB conference room

Provisional programme

- 8:30 –8:40** **Welcome Address by IEC and PTB**
- 8:40 –9:00** **Quality Infrastructure: A systemic approach to support renewable energy systems: PTB speaker (tbc)**
- 9:00 –9:20** **IEC International Standards and conformity assessment systems for renewable energy: Secretary of IEC National Committee of Egypt, Hassan Mahmoud Hassanin, Ministry of Electricity and Renewable Energy (tbc)**
- 9:20 –09:50** **Coffee break**
- 09:50 – 11:00** **Panel Discussion: *Working towards effective stakeholder engagement & competent conformity assessment in renewable energy***
- 1. Sharing experiences**
- Public-private partnership and dialogue in RE-related standardisation work: Example from Europe: *Dominik Nied, Technical Officer DKE, Germany*
 - Connecting African countries – What are benefits to work on a regional scale? *Leon Drotsché, AFSEC TC82, South Africa*
 - What it takes to engage NEC stakeholders and build networks for conformity assessment? *Rosario Uriá, INACAL, Director of Standardization, Peru and IEC Affiliate Leader*
 - How to tap internationally available competence in IEC: *Sivaganthan Jayasingam, IEC TC 82 WG1 Convenor, Malaysia*
- 2. Discussion- Moderator /IEC Central Office**
- 11:00 – 11:10** **Wrap up and Conclusions: Rapporteur / IEC-AFRC**