

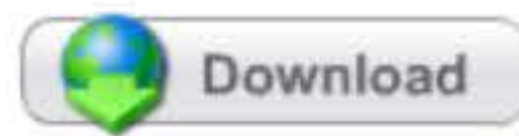
Advanced ultrasupercritical coal-fired power plants

19-20 September 2012

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Programme



18 September 2012

09:00 - 09:00: Attendees List

Attendees list
Unknown 15 minutes

17:30 - 19:30 | Pacassi I in the Renaissance Hotel: Drinks Reception 0 session items

There are no session items within this session.

19 September 2012

08:00 - 08:00: Bus departs from Hotel Renaissance to EVN Forum

There are no session items within this session.

08:30 - 09:00: Registration

There are no session items within this session.

08:45 - 17:45 | EVN Forum: Posters 4 session items

Demonstration activities for enhancing materials and efficiency processes in the Technology Development Centre for CO2 Capture, es.CO2 1 minutes
Ruth Diego

Pilot plant experiences with fluidised bed gasification of tripple fuels - coal petroleum coke and biomass blends. 1 minutes
Mr. Hamdan

Plasma-fuel systems application at coal-fired power plants 1 minutes
Alexandr Ustimenko

Towards ultra supercritical power plant using low grade coal: challenges and choices 1 minutes
Dr Dimityr Popov

09:00 - 10:30 | EVN Forum: Introductions and Launch of IEA's HELE Roadmap. Chair: John Topper 6 session items

Session Chair 0 minutes
John Topper, Managing Director, IEA Clean Coal Centre

Welcome on behalf of EVN 10 minutes
Franz Klemm, Power Generation Division, EVN AG

Welcome on behalf of VGB 10 minutes
Franz Bauer, Executive Managing Director of VGB PowerTech e.V.

IEA HELE Roadmap 40 minutes
Bo Diczfalusy, Director Sustainable Energy Policy and Technology, IEA; Keith Burnard, Senior Energy Technology Specialist, IEA


IEA HELE Roadmap Part 1: Bo Diczfalusy 20 minutes
Unknown

IEA HELE Roadmap Part 2: Dr. Keith Burnard and Dr. Osamu ITO 20 minutes
Unknown

10:30 - 11:00: Break

There are no session items within this session.

11:00 - 12:30 | EVN Forum: Session 1: National and regional programmes. Chair: Geoff Morrison 4 session items

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|--|------------|
| EU research activities and new approach on international cooperation 
Dr Marion Wilde | 15 minutes |
| A Comprehensive Overview of the United States Advanced Ultrasupercritical Materials Research Program 
Dr. Robert Romanosky | 15 minutes |
| One of the concrete action plans which supply 700°C class A-USC technology to a coal fire power market 
Dr. Eiji Saito | 15 minutes |
| Development of 700? USC Coal-Fired Power Generation Technology in China  
RUI SUN | 15 minutes |

12:30 - 13:40: Lunch

There are no session items within this session.

13:40 - 15:20 | EVN Forum: Session 2: AUSC Alloys. Chair: Hans Joachim Meier 5 session items

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|---|------------|
| The research and development of heat resistant steels and alloys used for 700? A-USC-PP in china  
Dr. Zhengdong LIU | 15 minutes |
| Castability of HAYNES 282 alloy 
Professor Jerzy Sobczak | 15 minutes |
| Optimization of microstructure and mechanical properties of Ni-Fe-based superalloy GH984  
professor Lanzhang Zhou | 15 minutes |
| Development of Ni-base superalloys for A-USC power plant with temperature capability 800°C.
Dr Shinya Imano | 15 minutes |
| Properties of advanced high strength austenitic alloy Sanicro 25 developed for A-USC plants 
Unknown | 20 minutes |

15:20 - 15:50: Break

There are no session items within this session.

15:50 - 17:30 | EVN Forum: Session 3: Plant Configuration. Chair: John Marion 5 session items

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|--|------------|
| Technical Readiness for A-USC Plant Deployment – a B&W perspective 
Mr. Kevin McCauley | 15 minutes |
| Component Test Facility Project in China 
Mr. Jianxing Jiang | 15 minutes |
| Future Power Production- Advanced Ultra-Supercritical Steam Turbine Design
Mr. John Powers | 15 minutes |
| Boiler project at Ultra Supercritical steam parameters (653°C/672°C - 303 bar/60bar)  
Mr Krzysztof Cieszynski | 15 minutes |
| Ways To Further Improve Efficiency for Ultra-supercritical (USC) Coal-fired Power Plants in China  
Professor Jianxiong Mao | 15 minutes |

17:45 - 17:45: Bus departs from EVN Forum to Freigut Thallern Restaurant

There are no session items within this session.

18:00 - 23:00: Workshop Dinner

There are no session items within this session.

23:00 - 23:00: Bus departs from Freigut Thallern Restaurant to Hotel Renaissance

There are no session items within this session.




08:00 - 08:00: Bus departs from Hotel Renaissance to EVN Forum

There are no session items within this session.

08:15 - 08:30: Registration

There are no session items within this session.

08:20 - 16:00 | EVN Forum: Posters 4 session items

- Demonstration activities for enhancing materials and efficiency processes in the Technology Development Centre for CO₂ Capture, es.CO₂**  1 minutes
Ruth Diego
- Pilot plant experiences with fluidised bed gasification of tripple fuels - coal petroleum coke and biomass blends.** 1 minutes
Mr. Hamdan
- Plasma-fuel systems application at coal-fired power plants**  1 minutes
Alexandr Ustimenko
- Towards ultra supercritical power plant using low grade coal: challenges and choices**  1 minutes
Dr Dimityr Popov






08:30 - 10:10 | EVN Forum: Session 4: National and Regional Programmes. Chair: Osamu Ito 4 session items

- 700°C steam generator technology – HPE activities and scope of work in R&D projects**  15 minutes
Mr. Marc D. Jedamzik
- Advanced Ultra-Supercritical Steam Power Plants**  15 minutes
Mr. John L Marion
- Foundation “Energy Beyond Borders” and its R&D Progam**   15 minutes
Doctor Nikolay Rogalev
- U.S. Program on Advanced Ultrasupercritical Power Plant Materials – The Economy of Using Advanced Alloys**   15 minutes
Dr. John Shingledecker

10:10 - 10:40: Break

There are no session items within this session.







10:40 - 12:20 | EVN Forum: Session 5: Fabrication and Corrosion. Chair: Jianxiong Mao 5 session items

- Iron Base Austenitic Steels in Ultra-Supercritical Coal-Fired Power Plants: Fireside Corrosion**  15 minutes
M.Sc., Eng. Gosia (Malgorzata) Stein-Brzozowska
- High temeprature corrosion and steam oxidation of candidate materials for 700°C class A-USC boiler**  15 minutes
Mr. Yuji Fukuda
- Advanced Manufacturing and Assembly Strategies for Nickel-based Super alloys applied at Ultra-Super-Critical Power Plants**  15 minutes
Dipl. Ing. Philipp Schiffer
- ENCIO project: overview, status up-date and planned fireside corrosion tests**  15 minutes
Dr.-Eng. Marco Gazzino
- Latest developments for the flexible high efficient power plant of the future**  15 minutes
Gregor Gierschner

12:20 - 13:30: Lunch

There are no session items within this session.

13:30 - 14:50 | EVN Forum: Session 6: Materials Testing. Chair: Keith Burnard 4 session items

- Demands on Materials and Components for existing and new conventional Power Plants**   15 minutes
Dr Ralf Mohrmann
- Advanced USC Technology Development in Japan**   15 minutes
Dr. Masafumi Fukuda
- Concepts for complementary materials testing simulating the service conditions of high efficiency power plants**  15 minutes
Dr. Axel Kranzmann
- NEXTGENPOWER: Achieving steam temperatures up to 750°C**  15 minutes
Arthur Stam

14:50 - 15:20: Break



There are no session items within this session.

15:20 - 16:00 | EVN Forum: Panel Session and Conclusions. Chair: John Topper 3 session items



Panellists invited to speak for 5 mins on any or all of the following: *Next priorities in RD for A-USC*Potential problems that could create delays and difficulties*Opinion about ability to achieve demonstration project dates*Benefits of future networking	20 minutes
Panellists to be decided – 1 from each of Europe, Japan, USA, China Discussion will be open to other delegates from the “floor”	15 minutes
Other	
Workshop conclusions John Topper	5 minutes

16:00 - 16:00: Close of Workshop



There are no session items within this session.

16:15 - 16:15: Bus departs from EVN Forum to Vienna International Airport and Hotel Renaissance



There are no session items within this session.

