TCP Universal Meeting - 9 October 2017 SESSION 1 - Enhanced TCP – IEA collaboration

TCP ETSAP - Energy Systems Modelling

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[ETSAP TCP]: About Us

Mission and scope

assist policy makers to model future energy pathways

Activities

- build tools and capacity in energy systems modelling
- collaborative energy modelling research and analysis
- biannual workshops and training
- 100 publications (incl 40 journal papers) p.a.

Current high-priority themes

- role of **technology** in meeting *well below 2D* ambition
- quantifying impacts of R&D investment (MI)
- interactions beween energy system and
 - **economy** (winners and losers in energy transition)
 - society (behaviour and societal change)

11,295 Chapter downloads in top 25% downloaded eBooks in the relevant SpringerLink eBook Collection in 2016

Informing Energy and Climate Policies Using Energy Systems Models

Insights from Scenario Analysis Increasing the Evidence Base

D Springer

PARTICIPANTS

	IEA members	Partner countries	Intergovern -mental
Contracting Parties	19	2	
Sponsors	2		



State of play

- TCP ETSAP collaborates with IEA Secretariat on
 - participation at IEA events, e.g. @ COP-21, IEA-NEET Workshop, IEA-RES-E integration
 - PhD internships e.g. with ETP team on MoMo,
 - joint publications e.g. freight, behavioural economics,
 - reviewing IEA publications (e.g. Energy Technology Perspectives)

Ideas for new or enhanced collaboration

- Joint events in IEA partner countries
- TCP secondments to IEA (incl. more PhD internships)
- Joint TCP-IEA-TCP workshops (e.g. DoE / IEA-GHG / IEA-ETSAP workshop CCS)

Further ideas on:

- strength of TCPs (people) weakness of TCPs (little TCP-TCP interaction)
- TCPs articulate their value proposition through outputs and outcomes
- better align TCP and IEA programmes via more joint events
- **shared** IEA-TCPs energy **data**, **workshops** and **Annexes**



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Energy Efficient End-Use Equipment (4E TCP)

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4E TCP: About Us

Mission and scope

 Promote government actions that encourage the use of energy efficient end-use equipment and systems.

Activities

- International benchmarking of product performance between countries/regions and examination of performance trends globally
- Examining opportunities for international alignment of policy approaches and technical standards
- Capacity enhancement

Current high-priority themes

- Solid State Lighting
- Motor Systems
- Connected Devices and Networks
- Monitoring, Verification & Enforcement

Website: www.iea-4e.org

PARTICIPANTS

	IEA members	Partner countries	Intergovern- mental
Contracting Parties	12	0	1
Sponsors	0	0	0

State of play

- Energy Efficiency Market Report
- Digitalization Report
- World Energy Outlook (Motor systems)

Ideas for new or enhanced collaboration

Current collaboration between the IEA and 4E is great

Further ideas on:

- 4E activities are driven by the policy priorities of contracting parties
- 4E has to juggle priorities from contracting parties with those of external stakeholders (IEA, other TCPs, external stakeholders)
- Collaboration between TCPs has been challenging collaboration with the IEA Sec has been more successful



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TCP on Bioenergy (IEA Bioenergy TCP)

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IEA Bioenergy TCP: About Us

Mission and scope

Increase knowledge and understanding of bioenergy systems => facilitate commercialisation and market deployment of environmentally sound, socially acceptable and cost-competitive bioenergy systems and technologies and to advise policy and industrial decision makers

Activities

- International collaboration and information exchange on bioenergy research, technology development, demonstration, and policy analysis => focus on overcoming barriers to the near- and long-term deployment of bioenergy technologies.
- 10 Tasks & strategic projects, cover the full value chain from biomass feedstocks to final energy product. => reports/publications, workshops, webinars; increased focus on outreach & communication!

Current high-priority themes

- Sustainability and Communication
- Biomass resources and mobilisation
- Market deployment
- Integration into the energy system (with other renewables) & the biobased economy



PARTICIPANTS

Partner

countries

3

IEA

members

20

Contracting Parties

Sponsors



Intergovern-

mental

1

State of play

 collaboration with the IEA Secretariat on IEA How2Guides, Technology Assessment, joint efforts in Bioenergy Technology Roadmap, approach potential new Members for the TCP

Ideas for new or enhanced collaboration

- Linking multi-lateral efforts on bioenergy/biofuels (CEM, Mission Innovation, BioFuture Platform, IRENA, GBEP)
- Higher visibility of IEA Bioenergy in common work (e.g. in Roadmap) *LOGO on report*

Improvement by alignment:

Vision:

■ IEA Bioenergy TCP : → working horse

Supported by:

Mission Innovation Biofuel Challenge for R&D strat. Biofuture Platform: Vision and political support GBEP: sustainability FAO: Food and Agriculture (MoU)

IRENA & SEforALL: global outreach

Needed:

- Joint Approach of IEA and IEA Bioenergy based on strengths: IEA Bioenergy TCP : knowledge, involvement of countries;
 IEA: Communication and Dissemination
- Opportunities: 'Key Actions' of Joint Roadmap are guidance for the TCP work programme



IEA Bioenergy

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Greenhouse Gas R&D Programme TCP (GHG TCP)

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GHG TCP: About Us

Mission and scope

 Assess the role that technology can play in reducing greenhouse gas emissions from fossil fuel use.

Activities

 To evaluate technology options for greenhouse gas mitigation from, power and industrial systems

Sponsors

- To facilitate implementation of potential mitigation options,
- To facilitate international collaborative activities,
- To widely disseminate our results.

Current high-priority themes

- Négative Emission Technologies
- Flexible Opération
- Cost and value of CCS

IEA membersPartner
countriesIntergovern-mentalContracting Parties1411

1

PARTICIPANTS

11



2

Website: www.ieaghg.org

State of play

 The GHG TCP collaborates with the IEA Secretariat on WEO/ETP, Relevant road maps and briefs on CCS status to WPFF etc.

- Presentation of 20 years of CCS report at GHGT-13
- Joint study report on Industry CCS underway with IEA CCS unit

Ideas for new or enhanced collaboration

• Further joint study reports: Negative Emissions and CCS Value

Further ideas on:

- TCP's a good collaborative mechanism model 40 years old and could be overhauled, streamlined and made more fit for 21st century
- Often difficult to articulate TCP value to Association countries and need for membership fees in cost shared model
- GHG TCP members set work programme based on collective needs not always easy to align with IEA programmes of work
- Air pollution, electric vechicles transition from coal to gas offer opportunities but difficult for TCP's to engage – IEA introductions/support needed.