



MINUTES

5 – 6 October 2017

The Hague, Netherlands

50th Executive Committee Meeting

IEA Demand Side Management Technology Collaboration
Programme

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1. GENERAL BUSINESS

Welcome

The meeting was opened by Rob Kool who welcomed the participants to The Hague, Netherlands on behalf of the Netherlands Enterprise Agency (RVO.nl), the host for the meeting. Rob Kool, Executive Committee Chairman, welcomed Jeremy Sung, the new IEA Desk Officer for the DSM TCP and Anna Kosek, TNO, The Hague, The Netherlands, who attended the meeting to assist René Kamphuis in presenting the Task 17 Phase 4 proposal.

In the past six months Even Bjørnstad has officially been appointed as the new Executive Committee member from Norway (instead of alternate), replacing Andreas K. Enge and has accepted the position of Vice Chair.

The meeting was not well attended with only 8 countries and sponsors present out of 18. Austria, Finland, India, Italy, Korea, Nova Scotia-Canada, RAP, Spain, USA and the European Copper Institute were unable to attend the meeting.

Korea, Nova Scotia-Canada, Sweden and USA, voted by e-mail. See Attachment (E).

The participants are listed in Attachment (A).

Pre-Meeting Information

Anne Bengtson, the Executive Secretary, provided via e-mail to all members and Operating Agents, a Pre-Meeting Document (PMD) in two parts, containing material associated with the Executive Committee meeting.

Adoption of the Agenda

The agenda was reviewed and approved at the meeting as shown in Attachment (B).

Approval of the Minutes from the 49th Executive Committee Meeting

The Minutes from the 49th Executive Committee Meeting were distributed earlier and were approved at the meeting.

Addition of a glossary to the Minutes

The Executive Committee members decided to add a glossary to all future Minutes, to explain the numerous abbreviations of the Technological Collaboration Programme, other TCPs, organisations and working groups. See Attachment (C).

Status of the Agreement

- The interim Desk Officer Melanie Slade has been replaced by Jeremy Sung as the new Desk Officer of the DSM TCP
- Maria Alm is now working at another Swedish Energy Agency and a new ExCo member from Sweden will be announced soon
- Mehmet Bulot will be appointed as the Swedish alternate ExCo shortly

- Andreas K. Enge (NO) has been replaced by Even Bjørnstad, Enova, Norway, as ordinary Executive Committee member
- Rob Kool steps down as Chairman/ExCo member, the new ExCo member from the Netherlands will be Ms. Gerdien Weger and she will attend the 51st ExCo meeting
- IEA is taking a closer relationship between TCP's seriously, Rob will attend the universal meeting of the IEA in Paris with other TCP's on 9 October
- NERI, New Zealand will step down as Contracting Party. The New Zealand government is expected to appoint a new Contracting Party in spring 2018.
- Ruth Mourik participated in the EEWP meeting on behalf of the DSM TCP. Minutes from the meeting are added in Attachment (F).
- Rob will attend the Future Building Forum in Singapore in 24-25 October.

Consequences:

- We need new leadership to move forward
- We need to adjust our strategy and collaboration forms
- A new strategy needs to be drafted for the end of term report and application for a new term (5 years)

Several countries are not participating in any Tasks at the moment and the Chairman reminded all participating countries and Sponsors that they need to participate in at least one Task. These countries and sponsors are: Finland, India, Italy, Nova Scotia, Spain, UK and USA. The Chairman encourages these countries to delve deeper into the material of new Tasks, find funding and join a Task.

IEA Secretariat News

An IEA Secretariat overview report of current and future energy efficiency projects was provided by the IEA Secretariat for the Executive Committee meeting and was included in the Pre-Meeting Document. See pages 10 - 17 in the Pre-Meeting Document (PMD). The interim Desk Officer Melanie Slade was unable to attend the meeting due to other assignments.

A priority of the IEA is to strengthen and accelerate co-operation with non-member countries (partner countries). Chile and Mexico are Accession countries (in the process of becoming members of the IEA); At present there are six Association countries, namely: China, India, Indonesia, Morocco, Singapore, and Thailand (countries participating in a programme of association with the IEA) and would be natural new partners to the DSM TCP. The following recent activities support this enhanced engagement worldwide:

- An Indonesian Ministerial-level event in February 2016, which opened the way to creation of an Indonesian Centre of Excellence. Six TCPs, including DSM contributed to an expert level workshop **“Bridging the Gap, Promoting Global Partnership”**.
- The IEA and China have launched the process of establishing a joint energy centre in Beijing and have deepened ties with an extensive three year work programme
- Morocco recently signed a joint three year programme of work with the IEA to deepen cooperation in the areas of energy security, energy efficiency, renewable energy, capacity building and data and statistics
- The 2017 World Energy Outlook, due for publication 14 November will focus on energy and development. For more info on the WEO, see www.worldenergyoutlook.org/

Committee on Energy Research and Technology (CERT)

The IEA is convening the second TCP Universal meeting of TCPs on 9 October in Paris, back-to-back with a CERT meeting. The aims of the meeting are:

- Identify top opportunities to further strengthen TCPs
- Brainstorm on ways to enhance communication of TCP accomplishments
- Further support TCP efforts to engage with governments, academia and industry stakeholders as well as with other multinational initiatives

IEA Medium-term Strategy for Energy research and Technology 2018-2022

At its meeting on 19-20 June, the CERT approved the IEA Medium-term Strategy for Energy Research and Technology 2018-2022. The purpose of the strategy is to offer a clear vision and mission statement for the technology related activities of the IEA Secretariat and the Energy Technology Network.

The MTSERT builds on the three pillars of the vision for a modernisation of the IEA endorsed at the IEA Ministerial meeting in November 2015:

- Opening the doors of the Agency to emerging economies
- Evolving the Agency's mandate on energy security
- Strengthening the Agency's role as a key international hub for knowledge and expertise in clean energy, including energy efficiency

The MTSERT was considered by the IEA Governing Board on 26-27 September and is available on the Forum.

IEA Ministerial meeting 2017

The meeting will take place 7-8 November in Paris. The theme of the meeting is: Bolstering Energy Security for Sustainable Global Growth and will be chaired by Sweden's Minister for Policy Co-Ordination and Energy, Hon. Ibrahim Baylan.

Clean Energy Ministerial (CEM) / Mission Innovation (MI)

China hosted the 8th Clean Energy Ministerial (CEM8) in Beijing on 6-8 June. IEA experts, including IEA Executive Director Fatih Birol participated in a large number of CEM-related sessions and side events spanning wide variety of topics.

New CERT guidelines for the Request for Extension and Communications Framework

The revised CERT guidelines for a TCP request for Extension (RfE) are now applicable to all TCPs. If you have any questions please contact: carrie.pottinger@iea.org

The RfE consists of the following Supporting Documentation:

- **End-of-Term report:** accomplishments over the past term with a focus on outcomes (2 page Annual Briefs may also be attached)
- **Questionnaire:** *Qualitative* list of activities carried out during the period and lessons learned, and *Quantitative*
- **Strategic Work Plan:** focusing on remaining barriers, new work streams and membership

The aims of the Communications Framework, (as a companion to the request for extension process, applicable from June 2017) are to:

- Enhance communication between the CERT, WP's and the TCPs
- Provide opportunity for discussions of TCP strategies
- Strengthen the role of the Working Parties (WPs)

The Communications Framework consists of four parts:

- TCP annual written briefings to the relevant Working Party (Annual Briefing)
- TCP in-person oral report to the CERT meetings or workshops (Status Update)
- TCP strategic communication with the CERT through the Working Party (Strategic Communication)
- Working Party periodic oral report to the CERT (Working Party Report)

TCPs are encouraged to consult the documents available on the Forum (www.iea.org/tcp/forum username: forum - password: network) and to seek guidance through their Desk Officer, the programme manager, or their respective working party.

Further, the IEA are building on the success of the Paris events in 2015 and 2016 by arranging four energy efficiency in emerging economies, training weeks during 2017. For more information see: <https://www.iea.org/topics/energyefficiency/e4/e4trainingweeks/>

The Global Exchange Platform for Energy Efficiency

The Global Exchange Platform for Energy Efficiency was presented by the new IEA Desk Officer for the DSM TCP, Jeremy Sung.

The platform was announced by the IEA Executive Director in June at the Global Energy Efficiency Conference and will be inaugurated in November at the IEA Ministerial.

The platform is envisioned to be:

- The premiere global source of data and information on energy efficiency policies and their impacts
- Will consist of an an engaging visual interface to improve access to energy efficiency data and publications and bring information to life through data visualisation tools
- Will build on existing resources and add a range of new functions and content
- Will be enhanced and expanded over many years

Key functions of the Global Exchange Platform will be:

- Improvements of the PAMS database with new functions
- Visualisations will be created and downloadable datasets will be built
- Improved access to energy efficiency info and publications which are sometimes “hidden”, and
- Collaboration tools for peer-to-peer information sharing between global energy efficiency policy makers and communicating directly to the IEA Secretariat.

The DSM TCP members were asked: (1) how the platform could be used to promote the work of the DSM TCP; (2) how could the platform be linked to the DSM TCP's own online resources; and (3) could the existence of the platform influence plans for future work streams.

The Executive Committee members were asked to come up with ideas for content, content presentation and if they are willing to participate in user testing.

The Chair indicated the to the IEA again that the work and content of the DSMU are available.

Contacts with interested countries and sponsors

In the past six months new contacts with India have been established and Hungary has shown interest in the DSM TCP. Interest has also been shown by the Energy Efficiency Renewable Energy Alignment (possible partner) and UNEP which has links with Task 16 and Task 25.

Contacts with the National Development and Reform Commission (NRDC) China, EGAT in Thailand, Chile and Mexico have been maintained via e-mail and China, Hungary, Thailand, Taiwan, Japan, Mexico and Singapore were invited to the ExCo meeting in The Hague as observers but were unable to attend.

A brief round table discussion revealed that although many of the Executive Committee member organisations belong to several TCP's, in general there is very little internal communication regarding the different TCP's within the organisations.

Rob Kool pointed out that it is crucial that we work closely with countries beyond our current membership.

Rob Kool stated that the IEA requires that all countries invited to participate in the DSM TCP be formally invited and recorded in the Minutes on a regular basis. Therefore, the Executive Committee decided to again formally invite the following countries to join the IEA DSM TCP either as a Contracting Party or Sponsor:

IEA Member countries that are not yet participating in the DSM TCP are:

Australia, Canada, the Czech Republic, Cyprus, Germany, Greece, Hungary, Japan, Poland, Slovakia, Portugal and Turkey.

Non-member countries that participate in other TCPs:

Russia, South Africa, Mexico, Venezuela, Algeria, Brazil, Peoples Republic of China, Croatia, Egypt, Israel, Lithuania, Taiwan, Ukraine and the United Arab Emirates (UAE).

APEC countries:

Chile, Estonia, Hong Kong, China, Singapore, Kuwait and Thailand

Non-OECD countries:

Saudi Arabia
Serbia

The Executive Committee members renewed their invitation to the above-mentioned countries and/or any entity they may designate, to become Contracting Party to the DSM TCP.

The Executive Committee unanimously:

RESOLVED that EGAT (Thailand):

- (1) (hereafter 'The Potential Sponsor') be invited to join the DSM TCP for Co-operation on Technologies and Programmes for Demand-Side Management on the terms as set out below:

If the Potential Sponsor joins the IEA DSM TCP, they will:

- a) Have no greater rights or benefits than Contracting Parties from OECD member countries. No representative of any Sponsor may be designated as Chair or Vice Chair of the TCP, nor vote on the accession of new Sponsors or Contracting Parties or on the election of existing Sponsors or Contracting Parties;
 - b) Pay an annual fee of USD 11,000 to the Common Fund
 - c) Be recognized as a Sponsor from the date they sign the TCP;
 - d) Be entitled to send a representative and an alternate representative to the twice-yearly Executive Committee meetings of the IEA DSM TCP;
 - e) Have a full single vote in the Executive Committee, equal to that of a Contracting Party on matters pertaining to the IEA DSM TCP Programme of Work. This will enable Sponsors to make proposals for the work Programme, participate in the voting on all topics and all other matters excepting those items defined in item a) above; and
- (2) RESOLVED that Rob Kool, Chairman of the DSM Executive Committee, will expedite and finalise the formal procedures of membership on behalf of the Executive Committee.

DECISION:

- unanimously resolved to invite non-participating countries and sponsors to participate in the DSM TCP (see above list of countries)
- renewed Executive Committee approval of the resolution to invite Sponsors

ACTION:

- maintain contacts with China (NDRC), Thailand (EGAT), Chile, Mexico, Taiwan, Japan and Singapore.

TCP relations, BCG and ECG

Rob Kool, Chairman, did not attend the latest Buildings Co-ordination Group (BCG) meeting nor the Electricity Coordination Group (ECG) meeting.

However, input was given to the collaboration spread sheets of BCG and the Chairman of ECG (Michèle de Nigris) participates in the strategy work of the TCP to avoid double work is done within the TCPs.

Project Preparatory Committee (PPC) report

The Chairman reminded the Executive Committee of their decision to set up a Project Preparatory Committee (PPC) consisting of the Chairman, the Vice-Chairs, the Advisor and the Visibility Chair. The aim of the group is to prepare work prior to Executive Committee meetings to avoid duplicate reporting and solve common problems that Tasks may have.

No report was submitted before the meeting and was presented orally. The PPC has had two conference calls and numerous e-mails to primarily discuss: (1) Next Executive Committee meetings; (2) strategy; (3) collaboration; (4) membership; (5) new Tasks; (6) EUWP and BCG; (7) finances; (8) website; (9) communication; and (10) collaboration with others.

The PPC also looked for two new (vice) chair(s) and a VC position was accepted by Even Bjørnstad.

The Executive Committee **approved** the oral PPC Report

DECISION:

- Executive Committee members **approved** the oral PPC report

2. OPERATING AGENTS MEETING

A brief Operating Agents meeting was held prior to the Executive Committee meeting. No problems were reported.

3. EXTENSION OF WORK AND NEW WORK

Task 17: Integration of Demand Side Management, Energy Efficiency, Distributed Generation and Storage – Responsive Prosumer Networks (Phase 4)

A proposal for Task 17 Phase 4 was provided on pages 21-29 in the Pre-Meeting Document (PMD) and was presented by René Kamphuis, TNO, and Anna Kosek, TU, Eindhoven The Netherlands.

The strategic discussion at the Executive Committee meeting in October 2016 revealed that there is a clear requirement for an interdisciplinary approach between technological and behavioral scientists in an innovation eco-system context. Task 17 Phase 4 will try to follow this in the DSM-Programme portfolio by considering three aspects:

- **Responsive.** Responsive here reflects pro-activity and reactivity of the technological end-nodes but also of the (aggregated) users in providing responsiveness to different types of stakeholder requests in the energy commercial system and physical infrastructure.
- **Prosumer.** Prosumer, here, reflects part of the energy transition viz. the increased and, from a grid stability perspective, possibly disruptive production capabilities of small dispersed producers and also the increasing use of the electricity grid due to the increased electrification with HVAC (heat pumps) and electric mobility (EVs).
- **Networks.** The scope of networks considers the role of the physical grid, the aggregator and the, mostly rural, community/smart city dimension. Physical aggregation as well as virtual aggregation are considered.

The following Subtasks further structure the activities to handle this emerging DG-RES and demand side challenge:

Subtask 14: Context analysis, use cases and SmartCity pilots positioning

Subtask 15: Metering, monitoring and coordination methods required to increase prosumer responsiveness

Subtask 16: Coupling to innovative user feedback, billing and transactive energy schemes

Subtask 17: Conclusions and recommendations

Country Experts input:

Country experts are requested to provide specific information about ongoing country specific developments related to the objectives in each individual subtask. Furthermore, they aid in organizing national workshops to inform stakeholders as to the progress of the project and the findings. Country expert activity is estimated to be 200-300 hours for the 2-year duration of the project.

Operating Agent activities:

The Operating Agent organizes the events, structures the discussion and analyses the country specific inputs. Deliverable outlines and an overarching and detailed storyline is set. Contributions of participating countries are joined into a consistent package with conclusions and recommendations. After the first and second year international dissemination meetings will be organized, if possible aligned to conferences in the field. Participant country specific activities will also be supported.

There was a general positive response from the Executive Committee members with expressions of “maybe” from most. Three countries expressed strong maybe’s: Netherlands, Norway, and Switzerland. Korea, Sweden and Nova Scotia-Canada approved the proposal and Work Plan via e-mail.

The Executive Committee members asked the Operating Agent to work on getting four countries on board before the end of the year and start Phase 4.

The Executive Committee members **approved** the proposal and urged the Operating Agent to get four countries on board and start Phase 4 before the end of the year.

DECISION:

The Executive Committee:

- **Approved** the proposal and urged Operating Agent to get four countries on board and start Phase 4 before the end of the year.

ACTION:

- Operating Agent should work on getting four countries on board and start Phase 4 before the end of the year.

Proposal: How to ‘do’ behaviour change in DSM. The A to Z of behaviour change – “People-Focused Work Stream

A further developed proposal on How to ‘do’ behaviour change in DSM. The A to Z of behaviour change – “People-Focused Work Stream was provided on pages 30 - 51 of the Pre-Meeting Document and was presented by Sea Rotmann, New Zealand and Beth Karlin, SEEChange Institute (SCI), USA.

Sea Rotmann started her presentation by pointing out that the proposed research for this new work stream will apply the tested Task 24 tools with *SCI’s Building Blocks of Behaviour Change* process and *Beyond kWh Toolkit* to real-life DSM problems in a variety of countries, sectors, and behaviours and conduct both process and outcome evaluation to assess what works and how the tools can be applied at scale. It will showcase the IEA DSM Programme’s wider knowledge and work on the human side of energy as part of a “People-Focused Work Stream” which is not coupled with a specific Task. The proposal will:

- Create an overarching international standard of how to ‘do’ behaviour change in real life by showcasing how it is ‘done’ in (best) practice;
- Promote and showcase the IEA DSM Programme’s work on the ‘human’ side of energy.

The objectives of the proposal are to codify and standardise best practices and processes identified during Phases I and II of Task 24 through field trials and participatory action research with programme Implementers. It will clearly outline the steps needed to make ‘Behaviour Change in DSM’ truly work in real life and to showcase the IEA DSM Programme’s important work in this area. The focus will be not only on tools developed by Task 24 in Phases I and II but also on disseminating other people-focused IEA work such as e.g. DSM Tasks 23 and 25 and EBC Annex 66 as well as other global research efforts in this area (building on the 300+ behaviour change experts already engaged with the Task). It will also incorporate and extend a framework for research-based behaviour change programmes developed by project partner SCI.

The proposal outlines a unique approach of funding that combines field research with broad dissemination (compared with how we usually design and focus DSM Tasks), and proposes a

different model of funding meant to: (1) reduce the pressure on individual countries having to provide all the funding and expert capability to support a more narrowly-focused Task; (2) enable all ExCo countries and partners to participate in this important people-focused DSM research; and (3) stimulate non-state actor engagement and critical co-funding in this crucial next step of field research and trialling of real-life pilots.

Expected benefits for IEA DSM

This proposed model goes beyond the traditional Task structure, where a small number of countries fund individual Tasks with rather narrow research objectives. Instead, it proposes to promote and align the IEA DSM Programme's 'people-focused work stream' and outputs (including what has been done as part of the DSM University) with other international research efforts in this space, with an oversight steering committee consisting of the entire DSM ExCo.

This will provide ExCo members with: (1) A strong platform for the IEA DSM Programme to stand out among the largely- technology focused TCPs; (2) Leading the charge for engaging communities, End Users and other Behaviour Changers in whole-system collaborations that focus on structural issues which we need to change to accommodate climate change and energy efficiency targets; (3) Gain improved political buy-in for their countries' policy development, through coordination with the IEA Secretariat and other international bodies interested in this area of research (e.g. G20, Horizon 2020, eceee, ACEEE, BEHAVE, BECC...); (4) Reduced pressure to find funding for an individual Task – e.g., no requirement to find and pay a National Expert; (5) Ability to collaborate with non-state actors across multiple countries / sectors that have the resources and mandates to conduct large-scale behavioural field trials; (6) Greater buy-in and oversight into steering a very important work stream of the DSM Programme; and (7) More flexibility for the Operating Agent/Project Stream Leader to engage with non-state actors and non-IEA DSM countries to collect a wider range of research and insights, including into developing countries.

Structure of Subtasks:

Subtask 0 – Administration, management and logistics; **Subtask 1** – Expert network and dissemination; **Subtask 2** – The Why; **Subtask 3** – The Who; **Subtask 4** – The How; **Subtask 5** – The What; **Subtask 6** – The So What; and **Subtask 7** – The Now What.

The work will be ongoing but is planned to last at least 2 years from 1 April 2018 – 31 March 2020.

Main milestones:

- Find at least 3-5 non-state actors participating in action research pilots that will be fully, independently funded
- Develop roadmaps for each pilot research study
- Analyse and evaluate each pilot study, further developing the 'Beyond kWh' and other Task 24 tools to be tailored with different modules to different sectors, audiences and behaviours (e.g. the hospital sector and commercial office building sector)
- Write final reports and recommendations for each pilot study, all
- Contributing to an online guidebook and international best practice standard.

New funding models were presented at the 49th ExCo and the "Entrepreneurial funding model" was selected as the most optimal. It was slightly amended, as outlined below.

Entrepreneurial funding model: small contribution from each ExCo member: €3,500 p.a. (**€59,500 total** for 17 members). We ask for this to be funded out of the common fund at first, to test this concept. This is not dissimilar to how the DSMU and Task Zero are funded. It will ensure that there is enough baseline money to fund administration and logistics of the work stream. This funding will also contribute to the significant time and effort involved in identifying, engaging with, and disseminating other people-focused work, from the DSM TCP, and other IEA and non-IEA experts (as long as it is aligned with our DSM vision and mission as identified by our ExCo steering group). This will include not only disseminating work that has already been published, but also helping relevant experts to turn it into stories of global relevance, which will have additional influence with policymakers, industry and the third sector. These 'stories', in various forms, will be published by the DSM TCP, via our website.

There will be a range of options based on the level of support needed:

1. **Bronze:** Magic Carpet (WHY), literature review (TARGET), project recommendations (DESIGN), and post-pilot debrief (APPLY), dissemination (SO WHAT) **€25,000**;
2. **Silver:** Magic Carpet (WHY), Literature review + customer research (TARGET), project recommendations (DESIGN), and summative evaluation (APPLY), dissemination (SO WHAT), international comparison (NOW WHAT) **€70,000**; and
3. **Gold:** Magic Carpet (WHY), Full intervention, which includes literature review + customer research (TARGET), project recommendations + user/AB testing (DESIGN), and formative + summative evaluation (APPLY), dissemination (SO WHAT), international comparison (NOW WHAT) **(€120,000)**.

The Chairman said that since the meeting did not have quorum it was not possible to decide upon a common fund “seed funding”. He further stated that it was not possible for the ExCo to decide upon sponsoring without CERT approval, but that the financing idea was certainly worthwhile to be worked further on. It was unclear what the relation is/should be between this Task and Task 24. The general reception was that the concept could be taken further as a Task (but also be modified and downsized). Another option could be to start a new TCP on sociology and end-use behaviour.

The Executive Committee member from the Netherlands pointed at the rule that payment from the Common Fund has to be unanimous, which makes it unlikely that a proposal on this basis will be accepted, as this is continuous and not a topic that requires seed money.

DECISION:

The Executive Committee:

- Modify and downsize according to ExCo comments and present at next Executive Committee meeting

ACTION:

- Modify and downsize according to ExCo comments and present at next Executive Committee meeting

Big Data for Energy Efficiency

Matthias Stifter looked into Big Data together with Svetlana Gross at the Executive Committee meetings in Stockholm and Brussels. Austria said they would bring the topic further, but no one presented the topic at the meeting. The Executive Committee members therefore **decided** to postpone the topic until the next Executive Committee meeting. In the meantime Marus Bareit is willing to act as intermediate with Matthias Stifter to bring forward an outline for this new work. Rob will discuss this with Matthias and the ISGAN TCP in Paris.

Hans Nilsson pointed out that some valuable ideas were suggested during the DSM University webinar #32 with Kornelis Blok and he may be able to assist in bringing the topic forward.

David Shipworth stated that the UK are willing to provide information

DECISION:

The Executive Committee:

- Put the topic on the agenda of the next Executive Committee meeting

ACTION:

- Present a concept paper on Big Data at the next Executive Committee meeting

3. CURRENT TASKS – LOAD LEVEL CLUSTER

Task 16 – Innovative Energy Services - Phase 4- Life-Cycle Costing; ‘Deep Retrofit’; Simplified M & V; Crowd-Financing & Energy Services Taxonomy

Task 16, Phase 4, Task Status Report was provided on pages 52-58 in the Pre-Meeting Document and was presented by Jan W. Bleyl, Energetic Solutions, Austria.

Jan started his presentation by stating that the extension of Phase IV has continued with the well-established structure already available in earlier Phases of Task 16. Phase IV focuses on Life-Cycle Cost Appraisals; ‘Deep Retrofit’; Simplified M&V; (Crowd)-Financing for EE & RE projects & Energy Services Taxonomy and is partially disseminated via the DSM University. Phase IV was initiated in July 2015 and will end June 2018.

Four countries are committed: Belgium (since 2016) Germany (co-op Annex 61), GIZ (for 9 months), Nova Scotia (in kind only), Netherlands, Norway and Switzerland.

Work accomplished in the past six months:

Subtask 19 Energy Service Expert Platform: (1) execution of a series of teleconferences with Task 16 experts to discuss and prepare a joint paper on life cycle cost benefit analyses of building deep energy retrofit in combination with Multiple Benefits; and preparations for the 20th experts meeting which was held on 28-29 May in France (back to back with the eceee Summer Study 2017).

Subtask 20 Think Tank for innovative energy service models and support tools: (1) Joint paper *Building Deep Energy Retrofits: Using dynamic cash flow analyses and Multiple Benefits to Convince Investors* was published and presented at the eceee summer study 2017. The paper (developed in close co-operation with all Task 16 experts and IEA ECB Annex 61) has been selected for publication in a special edition of the Energy Efficiency journal; (2) *Simplified Measurement and Verification Using Quality Assurance Instruments: A Proposed Concept for Energy, Water and CO₂-Saving Projects* (developed in close co-operation with EfficiencyOne, Nova Scotia, Canada). The manuscript has been returned from the journal ‘Applied Energy’ editor and invited for enhancement and re-submission for peer review and publication in the journal: (3) an invitation for publication of the Simplified Measurement and Verification paper in the planned IPMVP journal, exclusively dedicated to measurement and verification topics has been received.

Subtask 21 Coaching of individual National Implementation Activities (NIA): (1) implementation of the individual NIA plans to develop know how and energy service markets were followed up, the experts gave presentations and exchanged experiences and good practices during the last platform meeting and through teleconferences in between meetings.

Subtask 22 Dissemination and cooperation: Publications and presentation at various national and international conferences and seminars have been given.

In July 2017 Task 16 held a hands-on training on Bankable Calculation and Financing of Energy Efficiency Projects in Athens, Greece.

Work planned for the next six months includes:

Subtask 19 Energy Service Expert Platform: (1) preparation of the 21st experts meeting and stakeholder workshop to possibly be held back to back with eceee Industrial Efficiency 2018 Conference 11-13 June 2018); and (2) continue to hold expert platform teleconferences on selected Think Tank topics such as life cycle cost analyses and multiple benefits).

Subtask 19 + 23 Stakeholder workshops: (1) Preparation of Task 16 inputs for a national “Facilitator” workshop in the Netherlands to be held on 6 October 2017; and (2) preparation and presentation of a 2nd opinion for the selection of an EPC pilot project for the Swiss Federal Office of energy and its collaborating ministries.

Subtask 20 Think Tank for innovative energy service models and support tools: (1) further development of paper *Buildings Deep Energy Retrofits: Using Dynamic cash flow analyses and Multiple Benefits to convince investors* in the Energy Efficiency Journal (invited by eceee); and (2) follow-up of re-submission for peer-review of *Simplified Measurement and Verification Using Quality Assurance Instruments: A Proposed Concept for Energy, Water and CO₂-Saving Projects* and publication in the journal ‘Applied Energy’, in close cooperation with EfficiencyOne, Nova Scotia, Canada.

Subtask 21 Coaching of individual National Implementation Activities (NIAs): (1) continue implementation of individual NIA plans to develop energy services know how and markets; and (2) follow-up the experts who will give detailed presentations and exchange experiences and good practices during the next platform meeting and through teleconferences in between meetings.

Subtask 22 Dissemination and cooperation: several publications, presentations and workshops are planned for the next six months.

Planned workshops are: (1) Facilitator workshop in Utrecht, Netherlands; (2) Life cycle cost benefit calculation training for project developers and bankers in the Caribbean (Sept 2017) and Asia (Nov 2017); (3) Integrated Utility Service (IUS) pilot phase for small islands states in the Caribbean (in cooperation with GIZ and CARICOM); and (4) Life-Cycle Cost workshop for evaluation of energy efficiency and renewable projects-presentations (Vienna Nov 2017)

Subtask 23 Management and reporting

Preparation of Phase V, if initiated by the Executive Committee.

The Executive Committee members were asked for guidance regarding further work and Jan Bleyl stated that if desired by Executive Committee members Task 16 would be happy to revitalize Task 26 or any other Multiple Benefits format, as MBs offer a very interesting perspective on demand side energy efficiency and renewables and the opportunity to identify drivers and strategic allies for DSM programs and projects. UK and Nova Scotia are initially interested. Executive Committee members were encouraged to provide further ideas directly to Jan.

The Executive Committee members **approved** the Task Status Report.

DECISION:

- The Executive Committee members **approved** the Task Status Update.

ACTION:

- The Executive Committee members are encouraged to provide ideas to Jan for further work in Task 16 – Phase V.

Task 25 – Business models for a More Effective Market Uptake of DSM Energy Services Phase 1

The Task 25 Status Report on Business models for a more effective market uptake of DSM Energy Services was provided in the Pre-Meeting Document on pages 59-64 by Ruth Mourik, DuneWorks, the Netherlands.

The Task focuses on identifying existing business models and customer approaches providing EE and DSM services to SMEs and residential communities, analysing promising effective business models and services, identifying and supporting the creation of national energy ecosystems in

which these business models can succeed, provide guidelines to remove barriers and solve problems, and finally working together closely with both national suppliers and clients of business models. The longer-term aim of the Task is to contribute to the growth of the supply and demand market for energy efficiency and DSM amongst SMEs and communities in participating countries.

Accomplishments in the last six months include:

Subtask 1: (1) overall project coordination and management, including contact relationship management is **on-going**; and (2) attendance at Executive Committee meetings, conference and reporting to the Executive Committee.

Subtask 2: Discussions with South Korea are on-going whether it is worthwhile to organise a country workshop with service providers and clients. If it is decided to do a workshop this will take place in the spring of 2018.

Subtask 3: (1) developed 4 strategies and business models for potentially effective business models and services in co-creation with national stakeholders, e.g. suppliers and clients, in face to face workshops with the experts and relevant stakeholders based on the analysis in Subtask 2; (2) development of the online toolkit Fit2Serve for business developers, where all lessons learnt are included in a self-assessment form will be delivered a beta version in Phase 1. A completion of the tool is foreseen in Phase 2; (3) a submitted eceee paper highlighted guidelines with necessary policies and strategies of different stakeholders and their timing, to encourage market creation and mainstreaming of selected business models in participating countries; and (4) supporting additional 'piloting' activities in Austria and Sweden, where the toolkit Fit2Serve is to be tested with entrepreneurs.

Subtask 4: (1) traditional dissemination to external stakeholders and academia is on-going

Many teleconference and Skype meetings have been held with individual experts and several reports have been produced in the past six months.

Objectives for the next six months include:

Subtask 3: (1) finalise the second version of the online toolkit Fit2Serve; (2) finalise positioning paper on policy, economy and services.

Subtask 4: (1) continue to link to existing DSM TCP expert platforms and experts.

Planned meetings: (1) Task 25 presentation at the IEA EGRD meeting, Copenhagen; (2) Task 25 presentation as part of a famous Dutch Design week; and (3) Task 25 presentation at the Dutch Top Sector Innovation meeting to be planned between RVO and TKI.

Reports in the next six months include: the positioning paper D6.

The Executive Committee members **approved** the Task Status Report and the definition of new Subtasks for Phase 2. There was enough interest to continue the Task.

DECISION:

- The Executive Committee members **approved** the Task Status Report.

Proposal Task 25 – Business models for a More Effective Market Uptake of DSM Energy Services for SMEs and Communities – New Task Work Plan Phase 2

The proposal on Task 25 Business models for a more effective market uptake of DSM Energy Services – Phase 2 was provided in the Pre-Meeting Document on pages 65-81 by Ruth Mourik, DuneWorks, the Netherlands.

Ruth Mourik started her presentation by providing a background overview of previous work in the Task and suggested issues of training and MOOC facilities.

The second Phase of Task 25 would continually contribute to its earlier set objective of identifying an existing variety of service and use phase oriented business models providing EE and DSM services to SMEs and residential users (individuals and communities), analysing promising effective business models and services for different sectors, identifying and supporting promising national energy ecosystems in which the most promising business models can succeed, providing guidelines to remove barriers and solve problems, and finally working together closely with both national suppliers and clients of business models. The longer-term aim of this Task is to contribute to the growth of the supply and demand market for energy efficiency and DSM amongst SMEs and communities in participating countries.

The benefits for the participating countries and for the DSM TCP will encompass: (of course, benefits depend on the definite focus of Phase 2.

- **Overview of additional existing business models** / user centered approaches in the different countries;
- **Insight in best practice business models** based on a comparison of business models in the participating countries;
- **Training and exchange of valuable knowledge and learnings** between EE business developers, service providers, researchers, policymakers and clients within and between participating countries;
- **Access to relevant stakeholders, documents, and state of the art in the research field** through participation in a new network of expertise and participation of this network;
- **Best practice guidelines for policy makers and institutional stakeholders** on how to support the uptake and creation of promising business models for energy services that effectively achieve load reduction at SMEs and residential communities. Actionable and tested programme for agencies as well as other context players to stimulate the uptake of EE services in their country.
- **Developed and tested framework for effective business models for demand response/circular/...**
- **New knowledge on the working mechanisms of the service oriented business model:** how to monetise add on-services; how to co-create and co-operate with multiple stakeholders etc.

The principal deliverables for Task 25 Phase 2 will be:

- D7: overview of business model strategies (business model, entrepreneurial capabilities and context stretch or fit actions) for each investigated sector or type of business including a comparative analysis across countries;

- D8: Overview of the different types of policy and institutional support available to the different types of business models, where relevant country context and sector context sensitive;
- D9: Training road show
- D10: Outreach and dissemination material, including at least 2 academic/journal publications, MOOC and other outreach material highlighting the Task's work.

There was enough positive response from the countries present at the meeting to motivate advancing the project further (Belgium, Ireland, Netherlands, Norway and Sweden).

The Executive Committee members **approved** the proposal for Task 25 Phase 2.

DECISION:

- The Executive Committee members **approved** the proposal for Task 25 Phase 2.

4. CURRENT TASKS – LOAD SHAPE CLUSTER

Task 24 – Behaviour Change in DSM – Helping the Behaviour Changers

The Task 24 Phase II Status Report on Behaviour Change in DSM – Helping the Behaviour Changers was provided on pages 82-89 in the Pre-Meeting Document and was presented by Sea Rotmann, New Zealand.

Sea Rotmann started her presentation by saying that there is no behaviour change 'silver bullet', like there is no technological silver bullet that will ensure energy efficient practices. Designing the right programmes and policies that can be measured and evaluated to have achieved lasting behavioural and social norm change is difficult. This Task, and its extension, helped address these difficulties and has come up with guidelines, recommendations and examples of best (and good) practice and learnings from various cultures and contexts.

Phase II of Task 24 takes theory into practice, building on the solid theoretical foundations of Phase I. Phase II is looking at the: Subtasks 4 and 6) What? - The Issues; Subtasks 5 and 7) Who? - The People; Subtasks 4 and 8) How? - The Tools; and Subtasks 3 and 9) The Measures; and Subtask 10 So What? – 'The Story'.

Progress towards objectives during the past six months include:

Subtask 6 – Subtask 6 has now had over 25 workshops, in NL, NZ, CA, SE, IE, US, AT and at the eceee summer study (twice) and Energy Cultures, BECC and BEHAVE conferences. Another 4-5 workshops will round out this Subtask. We have started collecting lists of DSM interventions and energy efficiency and behaviour priorities in most of these countries and have created a report template, which has been filled in for Sweden, NL and NZ. We have discussed the top 3 issues during workshops and have decided on the following main interventions:

1. Powering tomorrow's neighborhoods via smart grid sharing in New Zealand;
2. Supporting building management operators in hospitals to produce better documentation and communication of energy savings in Canada (on hold as the funding didn't eventuate);
3. Empowering building operators in hospitals to re-set BAS set-point overrides in Charlotte, North Carolina (participant of Subtask 11);
4. Landlords and tenants co-designing green leases in commercial buildings in Sweden;
5. Promoting better use of ICT in universities in the Netherlands;
6. Using libraries as Middle Actors to distribute energy-saving kits in Ireland; and
7. How to improve uptake in shared mobility platforms with the goal to reduce fine air pollution in Austria.

Thus, Subtask 6 has shown that the tools and approaches are widely applicable to all domains we have studied in Phase 1 (building retrofits; smart technology; SMEs; transport) – and we added a few new sectors: hospitals, universities, office buildings and libraries. The Subtask has also undertaken some in-depth case study reviews on some of these interventions.

Subtask 7 – Behaviour Changers have been identified for the top issues decided on in Subtask 6 for Canada, Sweden, Ireland, the Netherlands, Austria, US and New Zealand. Their sector stories have been told during workshops and we have initiated deep discussions around relationships, mandates, stakeholders, restrictions and value propositions for each of the Behaviour Changers using the ‘Behaviour Changer Framework’ during workshops. Subtasks 6 and 7 go hand-in-hand and will be reported on together. A 150+ page Workshop Minutes document is available to all project funders.

Subtask 8 – The Special Issue on Storytelling for the Journal of Energy and Social Science Research provides [a very detailed and in-depth overview of research](#) on storytelling, including our [own use of the fairy tale story spine](#). Our ‘Behaviour Changer Framework’ collaboration tool was published at the ACEEE summer study and the BEHAVE conference and won an award at the ECEEE Summer Study this year. We have successfully trialed design charettes to co-design a pilot intervention in the 2nd largest hospital network in North America, CHS, as part of Subtask 11. This work will be presented at this year’s BECC conference and published with the ACEEE. Task 24, ACEEE and CHS will co-present a DSMU webinar on this exciting work on December 21. The Decision-making Tool has been drafted by Duneworks and we are collecting insights on multiple benefits of interventions in each of our country workshops.

Subtask 9 – Karlin (the Principal Investigator of this Subtask) et al have published papers at the IEPPEC conference in August 2015 and 2016 that outline the basics of the Beyond kWh toolkit they are developing for Subtask 9, and the results from the psychometric testing. It was co-funded to the tune of ~US\$100,000 by PG&E and Southern California Edison and received very positive feedback at the BEHAVE Task 24 conference, attended by over 70 experts. As it stands, the tool will not be able to be validated in each of the participating countries as only 3 countries paid to contribute (instead of the 4 needed for the contract). However, the tool will be tailored and tested on the highly-relevant residential energy-savings kit trial in Ireland and its usability was discussed in the Task 24 workshop in Austria in May. In addition, a version of the tool was adapted for the Swedish office sector pilot with the Swedish Energy Agency. Task 24 is proposing to find funding to develop different ‘modules’ for the tool, for example, in the commercial office sector (SE) or hospital sector (US and CA) with the new concept proposal for a “people-focussed work stream”.

Subtask 10 – This Subtask will not start until the end of 2017, as it is based on the completion of all workshops and Subtask 6 and 7 reports.

Work planned for the next six months include:

Subtask 5: (1) continue attracting experts to the Task; (2) the BECC conference; (3) webinar in December and publishing of reports.

Subtask 6: (1) start writing issues reports and collate DSM lists in New Zealand, Sweden, Netherlands, Ireland and Austria.

Subtask 7: (1) hold another 4-5 workshops in the next six months (Netherlands (?), Sweden, Austria, New Zealand and Ireland), to pull together most relevant Behaviour Changers in each participating country; (2) write up workshop notes; (3) finalise workshop protocols; and (4) animate all *Behaviour Changer Frameworks* (BCFs) in presentations.

Subtask 8: (1) continue working on storytelling and evaluation guidelines; and (2) finalise decision-making tree.

Subtask 9: (1) continue working on the ‘Beyond kWh’ toolkit and see how to best utilise it in Austria, New Zealand, Sweden and Ireland.

The Chairman asked the Operating Agent to separate contracted work and additional presentations and collaborations. Although the outreach is appreciated and an example for other Tasks to improve their outreach, the overkill of data blurs what is in the contract and what isn't, and as such a proper evaluation of the contracted results.

The Executive Committee members **approved** the Phase II Task Status Report. The final report will be pushed forward until mid 2018 but within the budget.

DECISION:

- Executive Committee members **approved** the Phase II Task Status Report.

6. PROGRAMME VISIBILITY

Programme Visibility Report

The Programme Visibility Report was provided on pages 90-93 in the Pre-Meeting Document and was briefly presented by Sea Rotmann who reminded the Executive Committee members that the members of the Visibility Committee are the Chairman Rob Kool, the Vice-Chair Even Bjørnstad, Chair of the Visibility Committee Sea Rotmann, the Executive Committee representative Harry Vreuls, the Spotlight Newsletter Editor, Pam Murphy, the Executive Secretary, Anne Bengtson, and the Operating Agent representative Sea Rotmann. The Visibility Committee met prior to the Executive Committee meeting.

Annual Report

The 2016 Annual Report, including a Theme Chapter on “What does DSM mean in your country” was made available electronically to Executive Committee members, Operating Agents and the EUWP and EEWP by the end of January 2017 and was uploaded to the IEA DSM website.

It was decided at the Executive Committee meeting in Stockholm, March 2016 that printed copies will not be available any longer, however the IEA would like to be able to print on demand and Anne Bengtson confirmed that a printable pdf version from the desktop publisher is will be provided every year.

Executive Committee members decided that the theme for the 2017 Annual Report is: What is the benefit of collaboration for “your country” in the DSM TCP.

Spotlight Newsletter

In the past six months two issues of the Spotlight Newsletter (Issues 65 and 66) have been published and posted on the IEA DSM website and distributed electronically. Executive Committee members were reminded that the Spotlight Newsletter should be distributed widely.

Topics in Issue 65 – June 2017:

- Note from the Chairman
- DSM: How its definitions changed over time
- Deep Energy Building Retrofits: Using Multiple Benefits to Convince Investors
- IEA DSM at Work on Innovative Energy Services
- DSM Day in Dublin: “Behavioural insights on energy efficiency in the residential sector”
- DSM University

Topics in Issue 66 – September 2017:

- Chairman's Note
- DSM University
- US: What are the actual costs of saving energy

- Ireland: SEAI report – “Behavioural insights on energy efficiency in the residential sector”
- IEA Global conference on energy efficiency
- Task 24: paper in ERSS Special Issue. “Storytelling and narratives in energy and climate change research”

Next dates for submission to the Spotlight Newsletter:

Issue 67/December 2017 – articles due 1 November

Issue 68/March 2018 – articles due 1 February

The next issue of the Spotlight Newsletter will be distributed in December 2017. Four issues of the Spotlight Newsletter are scheduled for 2018. However, this is only possible if everybody contributes. The Spotlight has a new look and Pam is looking for articles on DSM work in different countries and other work Operating Agents and Executive Committee members are involved in.

Pam is looking for articles on DSM work in different countries and other work Operating Agents and Executive Committee member are involved in. The IEA DSM Technology Collaboration Programme (TCP) has tremendous news to share so please continue to think about, suggest and submit future articles to the Spotlight Editor Pam Murphy pmurphy@kmgrp.net

Programme Brochure

The DSM Brochure is the DSM Programme’s main PR document and has been updated with a new logo and branding and is designed to last 3-5 years.

Sea pointed out that the flyers are continuously updated and that it is important to visit the website flyer section to make sure that the latest version of the flyers are inserted into the brochure pocket at the time of dissemination at a conference or seminar.

The main inserts and Task flyers were last updated in March 2017 and Operating Agents should check to see if their Task needs an updated version.

Key Publications

During the past six months several key publications have been added to the website:

See latest publications: <http://www.ieadsm.org/publications/key-publications/>

- [Task 24 – Advances in green leases and green leasing: Evidence from Sweden, Australia and the UK](#)
- [Task 24: “Once upon a time...” Eliciting energy and behaviour change stories using a fairy tale story spine](#)
- [Task 24: Co-creating behaviour change insights with Behaviour Changers from around the world](#)
- [Task 16: Building deep energy retrofit: Using dynamic cash flow analysis and multiple benefits to convince investors](#)

Executive Committee members and Operating Agents are reminded that it is up to them to nominate publications to become “key” to the Visibility Committee Chair, Sea Rotmann.

Website

The website has been updated and has been operational since July 2015. It has undergone annual maintenance and upgrades. All ExCo delegates and Operating Agents are strongly encouraged to review the whole website regularly, particularly areas relevant to their activities. It is very easy for information to become out-dated and it is particularly important to upload any new reports and publications as soon as they come out (also include them as headline news items by ticking the appropriate box). Operating Agents have considerable freedom to keep their own Task areas up to date, but other feedback, reporting of functions that appear not to work and suggestions for further

improvements should be made via Anne Bengtson anne.bengtson@telia.com and/or the Visibility Committee. In particular, we would be interested to know how useful the social network links are.

Statistics

The wrong version of the statistics was included in the Pre-Meeting Document. Below please find the correct figures.

Total website hits:

April 1, 2017 to August 31, 2017: 3,154 Sessions with 2,254 unique users

Hits per day:

April 1 2017 to August 31 2017: 20.48

Average time on website:

April 1 2017 to August 31 2017: 2mins 11 seconds

Google Analytics

GA from April 1 2017 to August 31 2017 show 3,154 sessions (up from 7,168) with 2,254 unique users (down from 4,820) who spent an average of just over 2 minutes per session on the website, viewing an average of 2.34 pages. 69% of them were new visitors.

The breakdown of sessions by country is as follows:

Country	Sessions	% New Sessions	New Users	Pages / Session	Avg. Session Duration	Report Downloads	Report Downloads
United States	350	85.43%	299	1.77	0:01:26	11	3.14%
United Kingdom	269	68.40%	184	2.23	0:01:58	7	2.60%
India	157	88.54%	139	1.77	0:01:15	6	3.82%
Netherlands	157	61.15%	96	2.85	0:02:52	11	7.01%
Sweden	152	21.71%	33	2.86	0:03:22	17	11.18%
France	137	62.04%	85	2.4	0:01:36	4	2.92%
Italy	122	60.66%	74	2.84	0:02:56	6	4.92%
Germany	121	75.21%	91	1.95	0:01:35	3	2.48%
China	119	45.38%	54	2.06	0:01:44	3	2.52%
South Korea	115	66.96%	77	3.03	0:02:22	8	6.96%
Other	3,154	69.09%	2,179	2.34	0:02:11	153	4.85%

Visits from Russia have dropped off substantially, down to 21st place with 47 sessions. Swedish users were the most engaged in the top 10, spending an average of 3:22 minutes, visiting 2.8 pages and with 11% of users downloading a report. New Zealand showed substantial interest in reports, with 16.7% of users downloading a report, the highest of any country with more than 20 sessions.

Downloaded reports for Tasks – we had 258 total downloads since April 1, 2017 (down from 633) of which 151(58%) were unique files (including legal texts but excluding Spotlight newsletters which do not show up in this analysis). The top 5 topics for report downloads were: Task 17, Task 24, Task 25, The Dublin Workshop (behavioural insights on energy efficiency in the residential sector), and Task 13.

Maintenance

The maintenance contract for the website was up for renewal in June. The hosting charges have slightly increased and the outstanding costs have now been paid. From now on, there will be a slightly higher yearly charge to continue hosting the site, as indicated in the last report. Please note that the annual maintenance invoice is due and was made available to the new VC, Even Bjørnstad.

Issues

Members should review the website regularly and update their own work/interests, especially reports, any filmed workshops for youtube, presentations for slideshare etc. The website is only as good as there is frequently updated content available. Most updates are from Task 24 and the IEA DSM Secretary.

Social Media

The IEA DSM Technology Collaboration Programme is getting more traction on social media. We now have a presence on:

- **Facebook** (IEA DSM Group) with 197 members and growing. Even though most posts are by Anne Bengtson, Rob Kool and Hans Nilsson, there are regularly posts and questions by other participants;
- **LinkedIn** (IEA DSM Group) closed as it was not utilised.
- **Twitter** (@IEADSM) with 486 followers and 1406 Tweets. This is the fastest growing social media platform and has fostered a lot of good engagement, re-tweets and mentions. Especially the Academic and Industry sectors seem to respond to this medium. Dr Sea Rotmann is at present posting for this group.
- **IEA DSM YouTube Channel** - with 66 videos – 35 are Task 24 videos and 31 are DSM University webinars. We need more content from other Tasks. If we start filming some Executive Committee workshops, this would be a great channel to distribute visual information fast.
- **IEA DSM SlideShare** - already highly successful. 142 slide shares.
- **Task 24 Expert Platform** - 245+ members, invite-only (www.ieadsmtask24.ning.com). Very successful multi-media platform to distribute findings from Task 24. The platform is also linked to a dropbox, a Wiki (www.ieadsmtask24wiki.info) and a Twitter account.
- **Templates** – Templates have been developed for reports and power points, please use them and make sure to use the ones with correct fonts (NOT HelveticaNeuSt).

Communications Plan and Dissemination Strategies

Any comments related to the visibility of the IEA DSM TCP should be sent to the Visibility Chair Sea Rotmann drsea@orcon.net.nz.

The Executive Committee members **approved** the Visibility Committee report.

DECISION:

- The Executive Committee **approved** the Visibility Committee Report

DSM University

The Status Update Report for the DSM University was provided on pages 94-103 in the Pre-Meeting Document and was presented by Hans Nilsson, Advisor to the DSM IA.

Hans Nilsson started his presentation by saying that the DSM University is developing according to plan at a steady pace, making it possible to deliver in a way that creates confidence from users and

interested parties, thanks to the Leonardo Energy's webinar platform provided by the European Copper Institute. The "Heartbeat" of the DSM-U is the webinars that are broadcast once a month.

The webinars have attracted some interest from the IEA TCP family when presented at a conference in Milan in January 2017 in the presence also from the IEA CERT and EUWP chairs.

Some voices were raised that the IEA should have its own facility for webinars but it looks quite obvious that the cooperation with the Copper Institute benefits our outreach. The latest 8 webinars attracted registrations from 116 countries.

Objectives for the last six months

Up to September 2017, 34 webinars have been arranged.

Leonardo changed the platform for administering all webinars where all webinars are announced (<http://www.leonardo-energy.org/calendar>) and it looks as if this has given us a wider audience (see attachment in PMD on pages 98-100).

The webinars are recorded and both slides and supporting material are made available for registered users. A flyer has been produced (<http://www.ieadsm.org/wp/files/DSMU-flyer-December-2016-corr.pdf>) that provides data on past webinars and on where material can be found for registration and downloading from Leonardo and from YouTube.

Objectives for the next six months

Webinars

The webinars will be arranged and announced in a rolling 6 months plan.

Other guest opportunities:

- a) Guest TCPs: 4E, ISGAN
- b) Policy issues: Club of Rome (Wijkman), Municipalities (Mayor NN), EE in buildings (Adrian Joyce)
- c) Planning and integration follow up on DSMU 31: Peter Lund (Helsinki University)

Attraction-knowledge

Problem: High quality content remains underexploited.

Solution: develop short policy briefs (~2 pages) post-webinar to re-promote content.

A "test" package of past webinars have been composed and sent to some universities as a teaser (Attachment 2)

"Tracks, programmes and Certification"

Tracks: DSM for regulators, DSM for utility engineers

Future: Organising webinars into learning programs leading to certification

DSMU 101: Basic elements of DSM and energy efficiency explained in short presentations that can be downloaded at any time.

Ideas for new work

Steps on the ladder

From this first step follows two more that successively builds the DSMU

1. Platform (to share)

Presently there have been 32 webinars most of them based on material from tasks that have been performed and some on-going. This makes the platform for the DSMU and it has been shared with organisations that have similar objectives such as ISGAN, eceee, IPEEC, RAP and S3C (an EU project). Thereby the outreach is widened and the DSMU made relevant for bigger audiences.

The webinars are recorded and available both on LEONARDO and on YouTube. The Leonardo source also contains slides from presentations and extra material such as task-publications and articles/papers of relevance.

2. Substance (themes)

Next step, creating a substance of text-presentations that can be replicated and used by interested parties according to their own wish, is in preparation. It goes under the work name “DSM 101” and will be a series of internet-based short courses (20-30 minutes each) on the themes for DSM:

- The logic of DSM
- Governance
- Energy efficiency - Load level (technical issues)
- Flexibility - Load shape (technical issues)
- Integration (with RES and distributed generation)
- Business models

3. Consolidation

Finally there is a need for consolidation so (a group of) participants can rely on that the information provided is stable and meaningful in its communication. This may call for a system of examination and that there is a responsibility for maintenance and updating. Preferably this will be established in cooperation with a university or an organisation that has reputation in the field of energy efficiency. Several of the operating agents for different Tasks have such roles and might serve as “midwives” for this final step.

The Executive Committee members **approved** the Status Report.

DECISION:

The Executive Committee:

- **approved** the Status Report

ACTION:

- Hans De Keulenaer and Hans Nilsson should continue to move forward as planned with the DSM University

7. ADMINISTRATIVE MATTERS

Task Zero – Running the DSM TCP

The Task Zero Update was presented by Hans Nilsson, Advisor at the Executive Committee meeting.

Hans Nilsson started his presentation by stating that Task Zero is an effort to in a formal way create a comprehensive and coherent overview of the IEA DSM Technology Collaboration Programme (TCP) material and to ensure that resources are used in the most efficient manner.

The mission of the IEA DSM TCP is to deliver to its stakeholders, materials that are readily applicable for them in crafting and implementing policies and measures. In order to do so we have several outreach tools that we need to maintain but also develop to ensure that results are disseminated in ways that are useful for people in everyday practice, for example:

- Administration (Secretary and Advisor)
- Informational tools
- Our networks and in particular the local ones run by Executive Committee participants
- Dissemination and the extension of the DSM University

To ensure that different activities are coherent all these actions are gathered into a Task called Task ZERO. This Task is mandatory for participants and builds on both cost- and task-sharing.

Responsibilities: The Programme Secretary is the co-ordinator for Task ZERO. The co-ordinator together with the “Visibility Committee”, gathers the necessary information from those concerned

with Subtasks described above in order to produce a work plan and a budget for the Executive Committee members to decide upon annually.

Management and Outreach

The Task is led by the Chair who may delegate responsibilities in particular to the secretary and the vice-chairs and who has the Project Preparatory Committee, PPC, as a “steering committee”.

In the past six months the PPC has had two conference calls and numerous e-mails to primarily discuss: (1) Next Executive Committee meetings; (2) strategy; (3) collaboration; (4) membership; (5) new Tasks; (6) EUWP and BCG; (7) finances; (8) website; (9) communication; and (10) collaboration with others.

Finance

The costs for administration has developed as follows (USD)

2012		2013		2014		2015		2016		2017	
Budget	Performance	Budget	Performance	Budget	Performance	Budget	Performance	Budget	Performance	Budget	Performance
168,000	162,074	168,000	145,985	144,000	176,213	144,000	192,659	168,000	72,652	131,000	70,728
+6 000		+22 000		-32 000		-49 000		+95,000		+60,000	

The expenses between years fluctuates widely, partly because of fluctuations in exchange rates. The Programme has managed to meet rising costs and rising expectations during its lifetime with rationalising the work not the least by making full use of the IT-development. During these years we have also managed to build a common fund that has been touching the limit of 300,000 USD. This has allowed the Programme to facilitate upstart of new Tasks from a seed funding.

The value of work put into the DSM University is approximately 45,000 USD per year. Part of this is covered by in-kind contributions, and part of it is covered within the budget.

Report (for the period April 2017 – October 2017)

The following table is an attempt to pull the Task Zero elements together and provide a comprehensive overview. Further details are presented under other agenda items as indicated.

Issue	See agenda item																																													
Administration	Financial report																																													
Informational tools	<p>Programme visibility Statistics</p> <ul style="list-style-type: none"> • Total website hits: April 1 2017 to August 31, 2017: 3,154 sessions with 2,254 unique users • Hits per day: 20.48 • Average time on website: 2mins 11 seconds • Google Analytics from 1 April to 31 August 2017 show 3,154 sessions (down from 7,168) with 2,254 unique users (down from 4,820) who spent an average of just over 2 minutes per session on the website, viewing an average of 2.34 pages. 69% of them were new visitors. <p>The breakdown of sessions by country is as follows:</p> <table border="1"> <thead> <tr> <th></th> <th>Country</th> <th>Sessions</th> <th>Report downloads</th> <th>Report downloads</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>United States</td> <td>350</td> <td>11</td> <td>3.14%</td> </tr> <tr> <td>2</td> <td>United Kingdom</td> <td>269</td> <td>7</td> <td>2.60%</td> </tr> <tr> <td>3</td> <td>India</td> <td>157</td> <td>6</td> <td>3.82%</td> </tr> <tr> <td>4</td> <td>Netherlands</td> <td>157</td> <td>11</td> <td>7.01%</td> </tr> <tr> <td>5</td> <td>Sweden</td> <td>152</td> <td>17</td> <td>11.18%</td> </tr> <tr> <td>6</td> <td>France</td> <td>137</td> <td>4</td> <td>2.92%</td> </tr> <tr> <td>7</td> <td>Italy</td> <td>122</td> <td>6</td> <td>4.92%</td> </tr> <tr> <td>8</td> <td>Germany</td> <td>121</td> <td>3</td> <td>2.48%</td> </tr> </tbody> </table>		Country	Sessions	Report downloads	Report downloads	1	United States	350	11	3.14%	2	United Kingdom	269	7	2.60%	3	India	157	6	3.82%	4	Netherlands	157	11	7.01%	5	Sweden	152	17	11.18%	6	France	137	4	2.92%	7	Italy	122	6	4.92%	8	Germany	121	3	2.48%
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	9	China	119	3	2.52%
	10	South Korea	115	8	6.96%
		All Others	3,121	258	52.45%
<p>Swedish users were the most engaged in the top 10, spending an average of 3:22 minutes, visiting 2.8 pages and with 11% of users downloading a report.</p> <p>Downloaded reports for Tasks – we had 258 total downloads since April 1, 2017 (down from 633) of which 151(58%) were unique files (including legal texts but excluding Spotlight newsletters which do not show up in this analysis). The top 5 topics for report downloads were: Task 17, Task 24, Task 25, The Dublin Workshop (behavioural insights on energy efficiency in the residential sector), and Task 13.</p>					
Our networks and in particular the local ones run by Executive Committee member participants	Still poor local connections and Executive Committee member engagement				
Dissemination and the extension with the “DSM-University”	DSM University <ul style="list-style-type: none"> • Growing development in terms of webinar participation. More than 116 countries registered in the last 8 webinars • Fruitful connections with “supportive” organisations • Possible base for an extended IEA University and collaboration with institutions for education 				

The Executive Committee members **approved** the Task Zero Status update.

DECISION:

- Executive Committee members **approved** the Task Zero Status update.

Strategy discussion – special session

The strategy discussion was prepared and led by Rob Kool and Hans Nilsson.

Hans Nilsson provided a draft strategy on pages 108 – 122 in the Pre-Meeting Document. The strategy discussion was divided into the following categories:

1. The Challenge (pages 108-109)
2. Our role (as a TCP) (pages 110 – 115)
3. Our stakeholder relations (pages 115 – 116)
4. How to become operational (pages 116-117)

Executive Committee members split up in 4 different groups and moved around the room to address the different questions on flip charts. Notes taken during the workshop will be summarised and analysed further and distributed to Executive Committee members.

The extension timetable

- **Sep 2017-Jun 2018:** The ExCo discusses and prepares the Supporting Documentation (if this has not already taken place). (Anne/Rob/Hans)
- **16 April 2018:** The ExCo formally agrees on the strategy and new structure of the TCP (thereby replacing the PPC and Visibility Committee)

- **1 Jul 2018:** The ExCo Chair submits the Supporting Documentation to the IEA (carrie.pottinger@iea.org).
- **15 Jul 2018:** The IEA returns the Supporting Documentation to the ExCo Chair, including any comments on whether the CERT requirements have been fulfilled, together with questions of clarification or suggested corrections or revisions to the information presented.
- **15 Aug 2018:** The ExCo Chair submits the final Supporting Documentation to the IEA. The Secretariat prepares the formal document that is to be submitted to the EUWP.
- **1 Sep 2018:** The TCP submits the RfE presentation to the IEA which follows the outline of the EoT and the SP, with key indicators from the RfE Questionnaire.
- **Sep 2018** (date of the EUWP meeting TBD): The Chair presents the RfE to the EUWP in person (Paris).
- **Oct-Dec 2018:** The CERT reviews the EUWP recommendation via written procedure (unless there are exceptional circumstances such as a shorter term)
- **Feb 2019** (date of the CERT meeting tbd): The CERT records the decision taken via written procedure during the plenary meeting.
- **28 Feb 2019:** The Secretariat sends the formal letter of notification of the CERT decision to the TCP Chair, together with the WP Feedback Form completed by the EUWP.

The current term for the DSM TCP is 1 March 2014 to 28 February 2019.

The work on the strategy will continue in the next 6 months and will be presented at the next Executive Committee meeting, after a consultation round in between the ExCo meetings.

Financial Report 2017 and Budget 2018

Even Bjørnstad, Vice-Chairman, with support from Anne Bengtson, Executive Secretary prepared the financial report for the period 1 January through 31 August 2017. The Financial report was provided in part 2 of the Pre-Meeting Document and was presented by Even Bjørnstad.

2017

Balance:

In 2015 DSM experienced a loss due to less income (country contributions) and more expenses (website) than budgeted. For 2017 the contribution to the Common Fund is more on track even if there are a couple of contributions still missing by end of August. On the expenses, the prognosis is that we will use less than the budget, particularly on Annual report and the ExCo Reserve Fund.

Assuming payments to the Common Fund by two additional countries, and with the current estimates of operating expenses for the remaining months, we expect an increase in the end of year balance of around \$225.000.

2018

Income:

As for 2017, with 16 countries contributing \$11.000 each and ECI with rebated contribution (\$6.000).

The proposed budget is relatively tight, but implies a slight increase in financial buffer by \$14.000. Secretarial support to the ExCo following the strategy process, and potential increases in cost due to new leadership, are among the uncertainties that are accounted for.

Several countries are late or missing on Common Fund payments. The 2018 budget assumes that all participating countries obey their obligations to contribute to the Common Fund.

The budget does not anticipate possible changes in the way the IEA DSM TCP chooses to organize its operation that could result from the 2018 strategy process.

It was concluded that it is difficult to judge the status just by comparison of 2 years since costs vary a lot between years.

A budget line didn't make the report, see below for the correct budget:

in US \$	2016		2017		2018
INCOME					
Common Fund	\$176 000,00	\$158 800,00	\$176 000,00	\$131 790,00	\$182 000,00
Seed Funding		\$8 307,00			
Total Income	\$176 000,00	\$167 107,00	\$176 000,00	\$131 790,00	\$182 000,00

There was a debate on the costs for the newsletter, which will be brought up again at the next Executive Committee meeting. Pam who edits and combines the Spotlight Newsletters has made it very clear there are no obligations and she will step down immediately if required. The Executive Committee member from New Zealand repeated her statement from earlier meetings that the webmaster and she herself can do the Newsletter much cheaper. The Chair pointed out the fact that she is an Operating Agent in a relationship with the Webmaster and as such there are serious conflicting interests.

Executive Committee members should let Anne Bengtson know as soon as an invoice has been paid.

The Executive Committee members **approved** the financial report 2016 and update for 2017.

DECISION:

- Executive Committee members **approved** the financial report 2017 and budget 2018.

ACTION:

- Executive Committee members should let Anne Bengtson know as soon as an invoice has been paid

Common Fund Payments

India and Spain have not paid their 2015, 2016 and 2017 invoices, but no problems are foreseen in receiving these funds. Belgium has not paid their 2017 invoice yet. The Executive Secretary will continue to send out reminders to those failing to pay, until payments are received.

ACTION:

- Executive Committee secretary should keep reminding those who have outstanding payments

Vote for Chairman and Vice Chairman

At the ExCo meeting the below suggestion of having three Vice-Chairs was put forward to the ExCo via e-mail prior to the Executive Committee meeting.

The PPC, with vice chairs could serve as the interim (between ExCo meetings) board as a way to keep a basic momentum and sharing of responsibilities. The name PPC should be abandoned and be in line with other TCPs.

- There is a necessity to have a vice chair for finances because there will always be questions about the finances at the Executive Committee meetings
- There should be a vice chair for executive Committee support which should encourage and require contacts between Executive Committee members and provide service to them to organize local activities. The vice chair could also have the responsibility for outreach

activities and in particular the DSM University. This would also imply ending the visibility Committee.

- There should also be a vice chair for development of Tasks, both to communicate with the present Operating Agents about how their Tasks could be developed in the future and to find out the need for new Tasks. This should be done in collaboration with other parts of the IEA structure, in particular the Working Parties (EEWP and EUWP)
- The VC's can create committees if this would be beneficial to the work of the TCPs.
- The Secretary should have the responsibility for visibility issues since it will require a firm and executive mind to make sure that things don't slip away, but could be assisted by a vice chair for communication matters.

There were no candidates for new chairmanship. This needs to be solved in the next six months.

Even Bjørnstad accepted to be Vice Chair for financial matters and David Shipworth accepted to be interim Vice Chair for development issues. Ireland will support the vice Chairs in their roles in any way they can.

DECISION:

Executive Committee members approved the concept of the new organization and ask the VCs to integrate it in their new plans for the strategy and extension.

Plans for the Fifty First and Fifty Second Executive Committee meetings

The 51st Executive Committee meeting will be held in Norway. Date to be decided via a Doodle Poll.

The 52nd Executive Committee meeting. The UK tentatively offered to host the 52nd Executive Committee meeting.

8. OTHER MATTERS

The Executive Committee members thanked Rob Kool and Inge Kraft for the excellent meeting arrangements and the Vice Chairs adjourned the meeting.

9. ACTION ITEMS RESULTING FROM THE FORTY NINTH EXECUTIVE COMMITTEE MEETING DRAFT

5 – 6 October, The Hague, The Netherlands

WHO	ACTION	WHEN
India Spain	Pay Common Fund invoice for 2015	ASAP
India Spain	Pay Common Fund invoice for 2016	ASAP
Belgium India Spain	Pay Common Fund for 2017	ASAP
Anne Bengtson	Keep reminding those who have outstanding payments to the Common Fund	On-going
ExCo members	Let Joe Miller and Anne Bengtson know when an invoice is paid	On-going
David Shipworth Even Bjørnstad	Maintain contacts with China (NDRC), Thailand (EGAT), IBM (Germany), Australia, Portugal and Chile.	On-going
Hans Nilsson Hans de Keulenaer	Move forward with the DSM University according to plan – as well as continue to plan/hold webinars the first weeks of every month	On-going
Operating Agents	Update a more clear definition in Legal Annex text of their Task	ASAP
Matthias Stifter Markus Bareit	Further proposal for a Task on Big Data and present at the next ExCo meeting	On-going
Anne Bengtson Even Bjørnstad	Prepare administrative details for the Fifty First Executive Committee Meeting in Bergen, Norway	January 2018
Anne Bengtson	Send out invitations first week of February	February 2018
ExCo members	Review website regularly and suggest further developments	On-going
ExCo members	Suggest topics for the Spotlight Newsletter and provide input for those articles to Pam Murphy	On-going
All	Follow Visibility Committee Chair recommendations to update the website	On-going
Operating Agents	Prepare Task Information Plans and include in each Task Status Report.	On-going
Pam Murphy	Distribute issues of the DSM Spotlight Newsletter	December 2017 March 2018
Operating Agents	Include 1-2 slides in Task presentation, highlighting the main findings to date in respective Task(s).	Present at next ExCo meeting
ExCo members	Provide ideas to Jan Bleyl, Task 16 for further work	On-going
All	Provide input to the 2017 Annual Report	15 November

Hans Nilsson	Task Zero: Prepare Task Status Report and send to Anne Bengtson for inclusion in the Pre-Meeting Document.	Friday 16 March 2018
Hans Nilsson Hans de Keulenaer	Prepare Status Report on the development of the DSM University and send to Anne Bengtson for inclusion in the Pre-Meeting Document (PMD).	Friday 16 March 2018
Jan Bleyl-Androschin	Prepare a Task Status Report for Task 16 Phase 4 and send to Anne Bengtson for inclusion in the Pre-Meeting Document (PMD).	Friday 16 March 2018

Matthias Stifter René Kamphuis	Prepare Status Report for Task 17 Phase 4 and send to Anne Bengtson for inclusion in the Pre-Meeting Document (PMD).	Friday 16 March 2018
Even Bjørnstad David Shipworth	Prepare PPC progress report and send to Anne Bengtson for inclusion in the Pre-meeting Document (PMD).	Friday 16 March 2018
Markus Bareit Matthias Stifter	Prepare concept paper on Big Data for Energy Efficiency and send to Anne Bengtson for inclusion in the Pre-meeting Document	Friday 16 March 2018
Sea Rotmann	Prepare Task Status Report Task 24 Phase II and send to Anne Bengtson for inclusion in the Pre-Meeting Document (PMD).	Friday 16 March 2018
Sea Rotmann	Modify and downsize according to ExCo comments, How to 'do' behaviour change in DSM – The A to Z model of behaviour change and send to Anne Bengtson for inclusion in the Pre-Meeting Document (PMD).	Friday 16 March 2018
Ruth Mourik	Prepare Task Status Report for Task 25 and send to Anne Bengtson for inclusion in the Pre-Meeting Document (PMD).	Friday 16 March 2018
Even Bjørnstad Anne Bengtson	Prepare Financial Report and send to Anne Bengtson for inclusion in the Pre-Meeting Document	Friday 16 March 2018
David Shipworth Even Bjørnstad	Prepare Visibility Report for inclusion in the Pre-Meeting Document.	Friday 16 March 2018
Weber Web	Provide statistics for every Task every six months and send to David Shipworth/Even Bjørnstad/Anne Bengtson for inclusion in the Pre Meeting Document.	Friday 16 March 2018
Anne Bengtson	E-mail pdf file of Pre-meeting Document for the Fiftieth ExCo meeting to the Executive Committee members and Operating Agents.	Monday 26 March 2018

10. ATTACHMENT A

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*Participants at the Executive Committee meeting 5–6 October 2017, The Hague, Netherlands

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Task 24 – Closing the loop: Behaviour change in DSM – from theory to policies and practice - Operating Agent

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**Task 25 – Business models for a More Effective Uptake of DSM Energy Services
Operating Agent**

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The Netherlands

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E-mail: info@duneworks.nl

11. ATTACHMENT B

Agenda

IEA Demand-Side Management Energy Technology Initiative Fiftieth Executive Committee Meeting

5-6 October, 2017 – The Hague, the Netherlands

Thursday 5 October

09:00 – 10:00

Operating Agents Meeting
Visibility Committee Meeting

10:00 – 10:30

1. GENERAL BUSINESS/WELCOME

1a. Welcome – *Rob Kool*

1b. **ExCo approval** of the Agenda

1c. **ExCo approval** of the Forty Ninth ExCo meeting Minutes – Dublin, Ireland DOC A

1d. Status of the Implementing Agreement

1e. IEA Relations

- Secretariat news DOC B

- Contacts with possible sponsors/new participants

– *Rob Kool*

- IA relations, BCG and ECG, – *Rob Kool*

- Report from the Project Preparatory

- Committee (PPC) – *Rob Kool*

- Operating Agents meeting report – *Rob Kool*

10:30 – 11:00

Coffee break

11:00 – 12:30

2. NEW WORK

2a. Updated Proposal: Task 17 Phase 4 – Responsive prosumer networks - *René Kamphuis, TNO, the Netherlands* DOC C

2b. Update: How to ‘do’ behaviour change in DSM – The A to Z model of behaviour change – *Sea Rotmann, New Zealand, Beth Karlin, USA* DOC D

2c. Big Data

The proposed New Tasks discussion will aim at one of the following decisions:

1. Decide to **initiate the new Task** based on work done to date.
2. Decide to initiate the **Task Definition** for a new Task. Interested countries must be prepared to assign the appropriate expert(s) to participate in that process.
3. Decide that additional work is needed on the **concept paper**. Interested countries must be prepared themselves, or to assign the appropriate Experts to help further develop the concept.
4. Decide to pursue the subject in co-operation with other parties within the IEA or elsewhere
5. Rejection (or moth-balling)

12:30 – 13:30

Lunch

3. CURRENT TASKS – LOAD LEVEL CLUSTER

13:30 – 14:00 3a. Task 16 – Phase 4 – Competitive Energy Services – Task Status Report – *Jan W. Bleyl, EnergeticSolutions, Austria* DOC E

14:00 – 14:30 3b. Task 25 Business models for a more effective market uptake of DSM energy services. Task Status Report – *Ruth Mourik, DuneWorks, the Netherlands* DOC F

3c. Task 25 Business models for a more effective market uptake of DSM Energy services. Phase 2 – *Ruth Mourik, DuneWorks, the Netherlands* DOC G

14:30 – 15:00 **Coffee break**

4. CURRENT TASKS – LOAD SHAPE CLUSTER

15:00 – 15:30 4a. Task 24 Closing the Loop – Behaviour Change in DSM: Helping the Behaviour Changers – Phase II. Task Status Report – *Sea Rotmann, SEA - Sustainable Energy Advice, New Zealand* DOC H

5. PROGRAMME VISIBILITY

15:30 – 16:00 5a. Programme Visibility Report *Sea Rotmann* – *Sea Rotmann* DOC I

16:00 – 16:30 5b. Development of the DSM University – *Hans Nilsson* DOC J

16:30 Hosted site visit followed by dinner

Friday 6 October

09:00 – 10:00 6. ADMINISTRATIVE MATTERS

6a. Task Zero, status report Distr. Later

6b. Financial Report 2017 – *Even Bjørnstad* PMD Part 2
Accountax Status Report
Status of Common Fund payments

6c. Plans for the Fifty First ExCo meeting April 2018

6d. Plans for the Fifty Second ExCo meeting

6e. Vote for Chairman DOC K

10:00 – 10:30 **Coffee break**

11:00 – 12:30 7. PRESENTATIONS by ExCo members and Observers

8. DISCUSSION: Strategy of the IEA DSM TCP

12:30 – 13:30 **Lunch**

APPENDIX TO THE AGENDA “Issues for the decisions and the process to reach decisions”

The delegates are URGED to prepare their responses to presentations carefully and primarily by contacting possible stakeholders before the meeting. The format for these proposed New Tasks will be a brief presentation that focuses on the:

- **Motivation** for the proposed work (what issues does it tackle?) what is it trying to achieve? Who is the target audience?;
- **Objectives;**
- **Approach** to accomplishing the proposed work;
- **Expectations/Results and Deliverables**
- **Dissemination plan** – what will need to be done to get the results adopted? Who will do it?
- **Required resources**

Concept and Task Definition Papers (Process and phases)

Before a new Task is starting the concept has to be defined and presented in order to attain the interest of possible participants.

PHASE 1: IDENTIFY NEW ACTIVITIES

Resulting in a CONCEPT PAPER (2-5 pages) containing

- Motivation
- Objectives
- Approach
- Expectations/Results

PHASE 2: DEFINE NEW ACTIVITIES

Requiring an EXPERTS MEETING to propose

- Table 1. Task Work Plan Resource needs: Task or cost sharing
Table 2. Dissemination, Task Information Plan

CONTENTS OF PROPOSALS FOR NEW WORK

The document that will propose the new work to the Executive Committee could be organized and have the

Following contents:

1. Background and motivation
2. Objectives
3. Issues for the new work (scope)
4. Structure (sub-tasks)
5. Management (responsibilities of the Operating Agent, Subtask leaders and Experts)
6. Deliverables (for whom, target groups)
7. Time Schedule and milestones
8. Funding and Commitments (Resources needed)
9. Meetings plan
10. Information activities
11. Co-operation with other IA's, the Secretariat and other interested parties
12. Country contributions to funding and Tasks

Annexes: Detailed description of Subtask

12. ATTACHMENT C

Glossary

Abbreviation	Explanation
APEC	Asia-Pacific Economic Cooperation
BCG	Buildings Co-ordination Group (consists of 7 Implementing Agreements)
CERT	Committee on Energy Research and Technology in the IEA
CIGRE	International Council on Large Electric Systems
CTI	Implementing Agreement on Climate Technology Initiative
DHC	Implementing Agreement on District Heating and Cooling
DSM	Implementing Agreement on Demand-Side Management
EC	European Commission
ECEEE	European Council for an Energy Efficient Economy
ECES	Implementing Agreement on Energy Storage
ECI	European Copper Institute
EEWP	Energy Efficiency Working Party in the IEA
ENARD	Electricity Networks Analysis, Research & Development
EOT	End of Term
ESD	Energy Services Directive in the European Commission
ETE	Energy Technology Essentials (3-4 page briefs)
ETSO	European Transmission System Operators
EU	European Union
EUWP	End-Use Working Party in the IEA
FBF	Implementing Agreement on Future Buildings Forum
GHG	Green House Gas
HPC	Implementing Agreement on Heat Pump Centre
ICLEI	International Council for Local Environmental Initiatives
IEA	International Energy Agency

IPCC	Intergovernmental Panel on Climate Change
ISGAN	International Smart Grid Action Network (ISGAN)
JFS	Japan Facility Solutions (Japanese Sponsors participating in Task XVI)
KEA	Korea Energy Agency
KIER	Korea Institute of Energy Research
NEET	New and Emerging Environmental Technologies (IEA networking project - Gleneagles G8)
NDRC	National Development and Reform Commission, China
PMD	Pre-Meeting Document
PVPS	Implementing Agreement on Photovoltaic Power Systems
REEEP	Renewable Energy and Energy Efficiency Partnership
SANEDI	South African National Energy Development Institute
SANERI	South African National Energy Research Institute
SHC	Implementing Agreement on Solar Heating and Cooling
TSO	Transmission System Operators

If you would like to add to the glossary send your suggestion to anne.bengtson@telia.com

13. ATTACHMENT D

Participation Table

Participant	In force						Proposed Tasks/ extensions
	17 Phase 3	24 Phase 2	25		16 Ext. Phase 4		
	Integration of DSM, Distributed generation, Phase 3	Behaviour Change in DSM – Helping the Behaviour Changers	Business models and the effective market update of DSM Energy Services	DSM University	Competitive Energy Services Phase 4		
Australia				☺			
Austria	X	X	X		☺		
Belgium			☺	☺	X		
Finland			☺				
India	X						
Italy				☺			
Korea			X	☺	☺		
Netherlands	X	X	X		X		
New Zealand		X		☺			
Norway			☺	☺	X		
Saudi Arabia							
South Africa							
Thailand							
Spain				☺			
Sweden	X	X	X				
Switzerland	X		X	☺	X		
United Kingdom		☺	☺				
United States	X	u		☺			
RAP *				☺			
European Copper Institute*	◀		◀				
Efficiency One		u	u	u		u	
OPERATING AGENT (OA)	Matthias Stiffer & René Kamphuis	Sea Rootmann	Ruth Mourik	Hans Nilsson, Hans de Keulenaer	Jan W. Bleyl-Androschin		

X = participant

☺ = interested

* = Sponsors

◀ = in-kind

14. ATTACHMENT E

Votes via e-mail from members

Proposal Task 17 - Integration of Demand Side Management, Distributed Generation, Renewable Energy Sources and Energy Storages – Phase 4 – Responsive prosumer networks.

➤ Approve the Proposal and Work Plan for Phase 4

Nova Scotia: Approve

Sweden: Approves the Proposal and Work Plan for Phase 4

Korea:

➤ Approve the Proposal and Work Plan for Phase 4

USA: USA votes to approve, but with proxy given to the Chairman should changes be proposed during ExCo discussion. USA interested in participation.

Follow-Up: René Kamphuis, TNO Netherlands, should directly contact Chris Irwin (Christopher.Irwin@hq.doe.gov) who directs and funds the US Department of Energy's transactive energy R&D efforts (and who funds the likely USA country expert of Steve Widergreen of Pacific Northwest National Lab)

.....

Concept paper: How to 'do' behaviour change in DSM. The A to Z of behaviour change

➤ Approve the Proposal and Work Plan and commence work in April 2018

Nova Scotia: Approved

Sweden: Sweden approves the Proposal, the work plan and the start of work in April 2018. (vi kan signalera vårt intresse Task 24 Phase 2.)

Korea: -> I think the concept paper is interesting. So I approve.

USA:

USA votes to approve, but with proxy given to the Chairman should changes be proposed during ExCo discussion.

Chairman Rob Kool's October 3 email to USA ExCo Delegate Larry Mansueti: "Concerning the operating agent/PMD: Sea is presenting here latest proposal with Beth Karlen from the USA. I don't think the double OA is the preferred situation. As Sea has double functions, it wouldn't advice the EXCO to continue with her as OA. She could be subcontracted by an OA.

If Beth was willing to step in with a proposal, backed up by DOE, that would be very helpful." **Response and Suggested Follow-Up: To go along with the Chairman's opinion above, after the ExCo Meeting, if ExCo approval is given, Sea Rottman or Beth Karlen may wish to contact DOE's Larry Mansueti for his assistance in asking his sister DOE Office of Energy Efficiency and Renewable Energy who direct and fund work in energy efficiency behavioral change for possible DOE funding support if desired.**

.....

Task 16 – Phase 4 – Innovative Energy Services – Life-Cycle cost; 'Deep Retrofit'; Simplifies M&V; (Crowd)-Financing & Energy Services Taxonomy

➤ Approve the Task Status Report

- Provide guidance on future work after June 2018, if desired by ExCo

Nova Scotia: Approve Task Status report

Comments: Agree with the significance of Multiple Benefits and would be great to see interest and effort placed in researching this topic further. This is a broad topic, but narrowing the focus to how the inclusion of MB can improve cost/benefit analysis of EE investment would be interesting.

Sweden: Sweden approves the Task Status Report.

Korea: -> I approve task status report. But I wonder if task 16 will be continued after June 2018. I think Exco need time to decide it.

USA:

Approve TSR: USA not a Task participant so not voting

Guidance for new work: USA not a Task participant so not voting

Task 25 – Business Models for a More Effective Market Uptake of DSM Energy Services

- Approve the Task Status Report
- Accept potential workshop in Korea in 2018
- Approve new work proposed for Phase 2

Nova Scotia: Approve

Sweden: Interested for Subtask 4a (Task 25-Phase 2)

- Approve the Task Status Report

Sweden approves the Task Status Report.

- Accept potential workshop in Korea in 2018

Sweden accepts a potential workshop in Korea in 2018.

- Approve new work proposed for Phase 2

Sweden approves new work proposed for Phase 2. Sweden, however, would have preferred the inclusion of stronger links to renewable energy services within Phase 2. In addition, Sweden considers the allocated 40 hours for national experts within Subtask 4 to be insufficient.

Korea

-> I approve the task status Report.

-> Actually I did not hear 'workshop in korea in 2018'. It is first time to hear about work shop agenda. Participants to Task 25 is different to Korea Exco member. We have already many schedule next year, so our department is difficult to hold meeting. But i do not know if another department (task 25 participant) can hold work shop. Let me ask this agenda to that department (Min Gu Kang).

-> I approve new propose.

USA:

- Approve the Task Status Report – USA not a Task participant so not voting
- Accept potential workshop in Korea in 2018 - USA not a Task participant so not voting

- Approve new work proposed for Phase 2 – USA votes to approve, but with proxy given to the Chairman should changes be proposed during ExCo discussion

.....

Task 24 – Behaviour Change in DSM: Helping the Behaviour Changers – Phase 2

- Approve the Task Status Report

Nova Scotia: Approve

Sweden: Sweden approves the Task Status Report. Interested in Task 24 Phase 2.

Korea: -> I approve the Task Status Report.

USA: USA not a Task participant so not voting

.....

Programme Visibility Report

- Approve the Status Report

Nova Scotia: Approve

Sweden: Approves the Status Report

Korea: -> I approve the Task Status Report

USA: USA votes to approve

.....

DSM University

- Approve the Status Report

Nova Scotia: Approve

Sweden: Approves the status report

Korea: -> I approve the Task Status Report.

USA: USA votes to approve

.....

Task Zero

- Approve the Task Zero Status Report

Nova Scotia: Approve

Sweden: N/A

Korea: -> I approve the Task Status Report.

USA: USA votes to approve



PMD Part 2: Financial Report 2017 and Budget 2018

- Approve the financial report 2017 and Budget 2018

Nova Scotia: Approve

Sweden: Approves

Korea: -> korea has already paid the 2017 common fund. KETEP paid it. Please check it again.

USA: USA votes to approve

15. ATTACHMENT F

Minutes from EUWP meeting at IEA 9 October 2017

EEWP meeting

Germany, Australia, Austria, Canada, China, Korea, Denmark, Spain, Estonia, USA, Brazil, Hungary, Ireland, Italy, Finland, France, India, Japan, Thailand, Switzerland, Sweden, Netherlands, Portugal, UK, Czech republic, Slovakia, Singapore, ..

Morning Presentations:

Hans Paul-4ETCP

4e at a glance

- ✓ Share expertise and develop understanding of end-use equipment and efficiency policies, coordinate international approaches.
- ✓ 2008, young, 12 member countries
- ✓ Help governments maximize energy efficiency to tackle challenges in non-transport area

Findings:

- ✓ Standards and labelling programmes have large effect, Long term purchasing prices declining with increased efficiency, so costs end users are neglectable
- ✓ Lighting: imperative that tech implemented in market need to meet claimed performance and expectations. Many ways to do that: voluntary and mandatory programmes, information campaigns etc.
- ✓ Motor Systems: expansion of EE policies can increase savings of tech, standardization, testing, metrics etc facilitate adoption and improve alignment
- ✓ Network devices: CDA voluntary principles for EE connected devices set up by 4E and these should be adopted by relevant stakeholders.

Achievements

- ✓ Policy guidelines, roadmaps, performance tiers, reports
- ✓ All freely available at website 4E, including nice short videos what 4E is about and what the connected device annex does etc.

Forthcoming activities:

- ✓ Programme of Interlaboratory comparison fro LED lamps
- ✓ Input EE Market Report
- ✓ Report on impact voluntary agreements EE
- ✓ Policy guidelines motor driven units
- ✓ Energy and Digitization report input

Discussion/Questions

Sam: thanks for all cooperation

Canada: is participating country, supports work, has helped advance policy in Canada, greatly appreciated

Carrie/manager TCPs: expand on contribution of delegates on annexes = providing data.

France: how much of reports and findings are transferrable to developing countries.

Melanie: training weeks using experience of 4E and usually led by operating agents of 4 E, so experience is made use of in developing countries.

Energy in Buildings and Communities- Brian (IEA)

Current strategic plan:

- ✓ Integrated planning and building design
- ✓ Building energy systems
- ✓ Building envelope
- ✓ Community scale methods
- ✓ Real building energy use

This is thus a good time to help influence research for next 5 years. Future building forum hosted Singapore is on input entries. Theme: transforming cities in hot and humid climates towards more efficient and sustainable energy use.

- ✓ Meeting increasing needs for cooling and dehumidification and ventilation. Deploying low carbon solutions for buildings and communities.
- ✓ Running: deep renovation of historic buildings
- ✓ Renovation at district level
- ✓ Energy endeavour
- ✓ Net zero energy public communities (cooper with TCP Solar, Heating, Cooling)

Key theme is also city level projects, which bring issues together such as transport, people, buildings

Q Denmark: EBC very much technology or hardware focused...

Brian: changing policy is indeed less a focus, more material R&D, modelling etc. Part of ongoing discussion, working on guidance for operating agents, on how to communicate their deep research findings to other types of readers...

Q Carrie: EBC is very active on urban and city level policy, prime, prep, train local decision makers on EBC issues.

Louise Vickery, Energy Efficiency Renewable Energy Alignment

- ✓ IEA member activities
 - High level forum and EEWP
 - SLT meeting December
 - World Energy Outlook
 - Market reports
 - Member knowledge groups and REWP
 - IEA SLT CERT workshop
 - Clean Ministerial
 - IPEEC
- ✓ Frame issue in 3 dimensions
 - Designing policies and delivering end goals cost effectively
 - **New policy thinking required as pace and scale of deployment grows**
 - **New solutions that are intersecting tech (digitization), people, market demand change in policy thinking**
 - **Where a clear distinction existed between supply and demand this is no longer the case. About interaction between demand and supply. Need policy and tech to help deal with that**
- ✓ **Also more energy services approach needed focused on function and value of energy**

Emerging issues even more important to nearly movers and those with strong targets

Proposed next steps:

- ✓ Apply the above thinking to sectors or policy area of greatest benefit to members
- ✓ IEA and CEM workshops- focus on an area, write up with cases, Joint EEWP and REWP workshop April 9th, CEM workshop May 2018
- ✓ Focus are: build environment, market instruments, industry, tools to inform optimal mix, urban planning, sector coupling
- ✓ Discussions on policy and tools

Reactions Plenary to TCP DSM:

Tom Bastin: excellent sales pitch

Ireland (Jim Scheer): strong endorsement, experience working with the DSM TCP and the behaviour task in particular was enlightening and led to thinking out of the box beyond economics and engineering, a breath of fresh air, led to the formation of new units and new policies. What remains difficult is the measuring of the impact of behaviour change policies and measures.

IPEEC: Ailin Huang (programme officer IPEEC), Argentina just expressed a strong interest in behaviour of different target groups as the focus for their presidency term. And ALADIN (energy

agency for Latin America?) expressed need to start working with IEA on this.

Sam/Tom Bastin: the platform that the IEA is developing needs to take the input from the TCPs onboard. In reaction I asked how, and if potentially the DSM university could be pushed on that platform, and if training and capacity building based on our tasks could be pitched there. And the answer was Yes, absolutely.

Sam: the IEA secretariat is in a strategic discussion on future work, and for example the digitization report sets the scene for much new work within the TCPs.

Denmark: seems that the DSM TCP is ready for a new name considering its broader systemic focus? Answer Ruth: whatever we do still comes from the Demand Side perspective....but perhaps management is no longer fully covering the work..

Hungary: the focus on the system and therefore other carriers and sources than only electricity would be an opening for Hungary to participate, for example on a task on heat pumps including the soft aspects.

During coffee break I met our new desk officer, a political scientist with great enthusiasm who was excited to hear about how the DSM TCP aims to move away from a mere tech focus.

Also met Benoit Lebot and Ailin again and they introduced me to Andrea Heins, undersecretary of energy efficiency and savings of the Ministry of Energy and Mining of Argentina. They are very interested in making use of all the knowledge on behaviour change both amongst consumers and amongst technology and business developers (task 16, 24, 25) . They are starting from scratch in Argentina, with a strongly funded energy system (people used to pay 10 and now 50%) of the real market price.

Benoit said he really want cooperation, but they have no money, they can help with the networking however, and the governments involved do have a lot of money.

Second part (joint meeting EEWP, EUWP, IPEEC). So more countries and organisations joined, e.g. Italy, Argentina, UN Environment, CEM secretariat, Morocco, and for some countries the delegates changed.

Not sure why we were not asked to present here again, given that the other two TCPs (4E and ECB) were presenting again as well...

What becomes very clear however, is that most of the collaborations work because the experts are contributing from their professional positions, where their organization provides in kind contribution through these experts. They are platforms, collaborations that fit within the organisations mode, for example because they are based on research and publications.

Presentation Hans Paul again,

about Connected Devices Alliance which is a cooperation between the TCP and IPEEC around a centre of excellence

4E is very active in collaborations, but they have a totally different funding scheme which is based on voluntary in kind contribution and assigned persons from energy agencies, which makes this possible

Presentation SEAD by Nicole Kearny (CLASP).

Focused on appliances and energy efficiency policy.

Already cooperating a lot with IEA 4E, so about continuing this cooperation.

Task group Transport IPEEC and other G20 countries.

US Environmental Protection Agency leads

Voluntary platform

Aimed at improving energy and environmental performance of motor vehicles, especially Heavy duty Vs.

Christine Rousselle-TCP clean and efficient combustion

Could not see clear potential link with our TCP, very very technical TCP on combustion in vehicles. Only combination is focus on multiple benefits (but they do not name it such) such as less local environmental pollution.

BEET: Building Energy Efficiency Task Group.

Collaborative platform to research inform and support development of effective building energy efficiency policies. Mainly on ratings, codes, performance metrics, policies.

EBC presentation again by Brian Dean

The set-up of this session, with only presentations and no time for questions and comments really breaks down the purpose of the meeting....

Afternoon

UNEP presentation Mark Radka

Several UNEP divisions

1. Climate change
2. Resource efficiency
3. Disasters and conflict
4. Environmental discourse

Focus on mitigation, reduction energy related GHG emissions.

Initiatives

- Climate Clean Air
- Climate Technologies Centre and Network
- Global Alliance for Building and Construction
- United4Efficiency (about capacity building focused on lighting)
- Global Fuel Economy Initiative
- Copenhagen Sustainability for All (SEforALL)
- District energy in Cities initiative (new)

Services:

- Improve uptake
- Catalyzing funding
- Providing policy advice
- Improve understanding of science

Opportunities for cooperation UNEP:

- UNEP wants to accelerate energy efficiency through innovation in delivery models (direct link task 16+25)
- United4Efficiency (about capacity building focused on lighting) is link if our TCP also starts focusing on lighting
- UNEP explicitly looks for cooperation, they want to bring about the dialogue

CEM secretariat

24 countries +EC participate

They have multiple events such as the energy ministerial meeting, round table events, side events, work streams etc.

They generate campaigns based on initiatives such as SEAD, ISGAN, CLEAN ENERGY SOLUTIONS CENTER.


CEM has a workstream on Energy Demand with topics:

Appliances, industries, buildings, transport.

Collaboration opportunities

- **CEM already explore links with other TCPs such as 4E**
- **CEM starts two new initiatives where we can connect through the creation of new tasks or adding subtask to existing tasks: Eco towns, Near Zero Buildings**
- **Next meeting is 23-24 May in Copenhagen**

Mel Slade IEA and Benoit IPEEC



Presentations mentioning again the work of IEA and IPEEC and desire to find common ground to collaborate

Breakout sessions to reflect on cooperation

Interesting points raised:

- **Challenge to translate the international cooperation findings to country level**
- **Many countries present mentioned that they did translate TCP findings into policies or measures (Ireland for example, Portugal)**
- **Important to know about the reporting requirements of each country**
- **A good connection to industry from a TCP is as valuable as connection to policy, as long as TCP impacts on innovation in country.**
- **G20 is establishing a task force to implement an EE hub between IEA and IPEEC to break down silos.**



DSM TCP Power Point presentation at the EUWP meeting at IEA 9 October 2017



The Demand Side Management TCP wants cooperation with you!

*IEA Demand Side Management -Technology Cooperation Programme
Paris 20th September 2017
Ruth Mourik-Duneworks*





WHAT.. Is DSM?

Planning, implementation and M&E activities
influencing energy use

by all

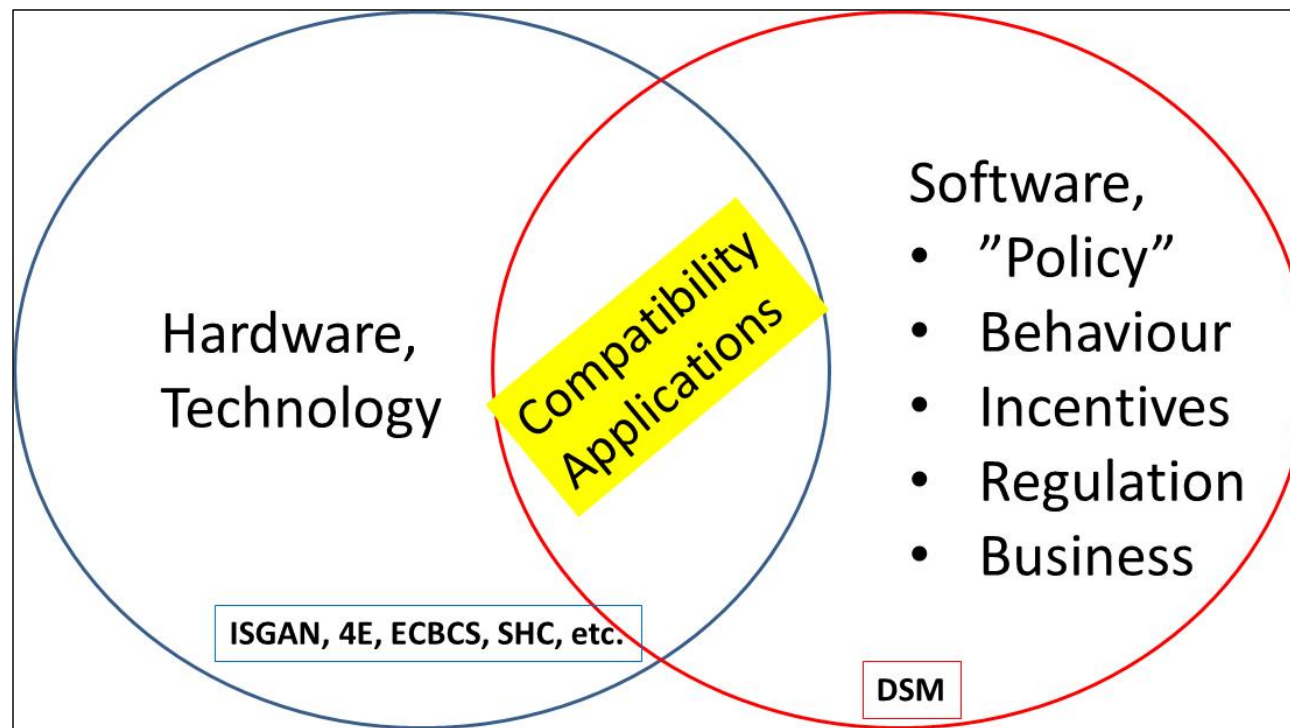
=influencing load shape and level (electricity)



WHO = YOU

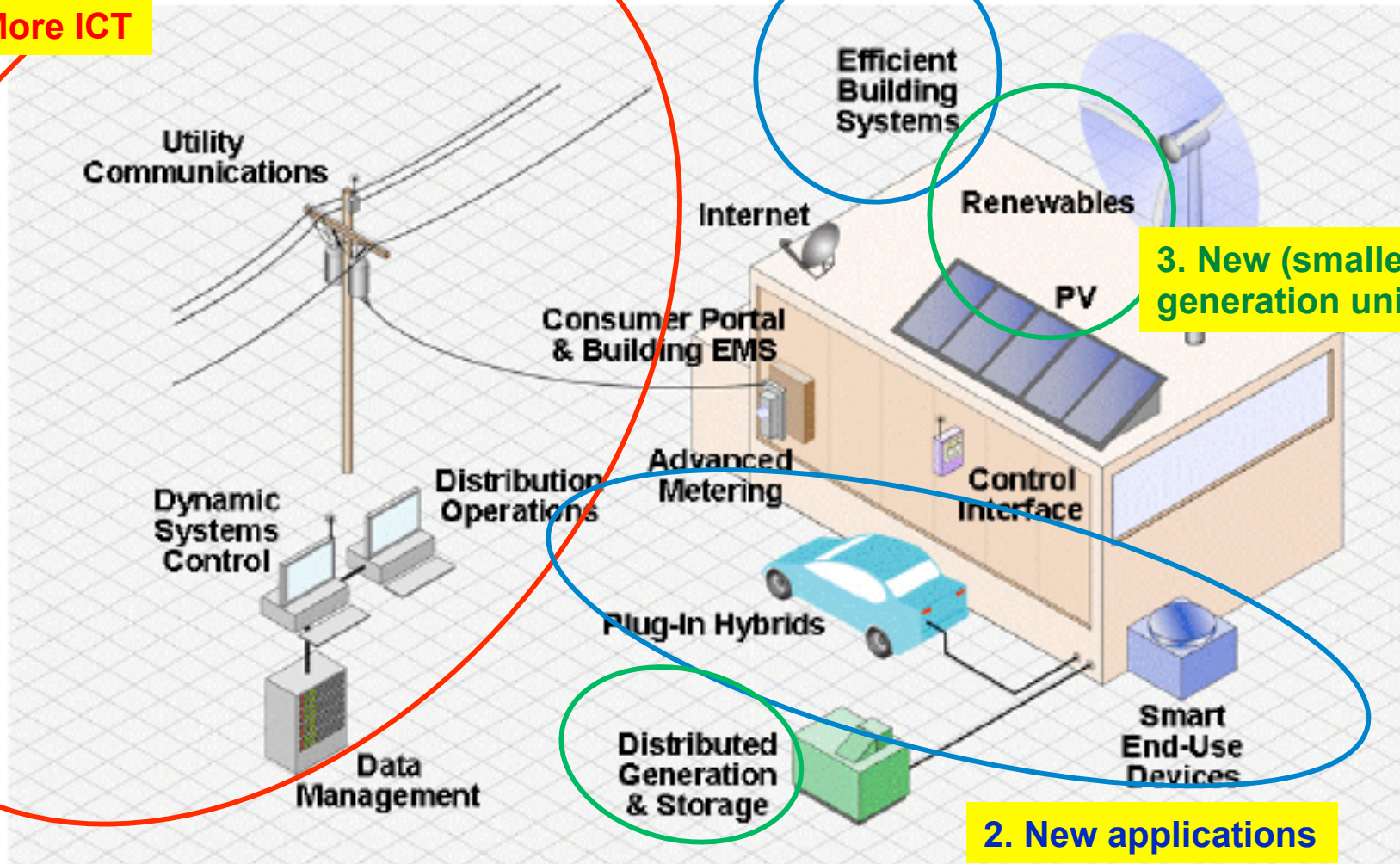
- **1993-...**
- **14 countries and 3 supporting partners**
 - **Austria, Belgium, Finland, India, Italy, Korea, Netherlands, New-Zealand, Norway, Spain, Sweden, Switzerland, UK, USA, RAP, ECI, Nova Scotia**
- **Managed by Executive Committee**
- **Tasks on DSM issues- load level and load shape**
 - **(25 so far) Behaviour change, smart grids and end users, business models, standards, communication and branding, certificates, ToU, services, EPC, market transformations, monitoring and evaluation.**
- **Participation open to all, based on annual fee and support of a task**

Where do we meet today?

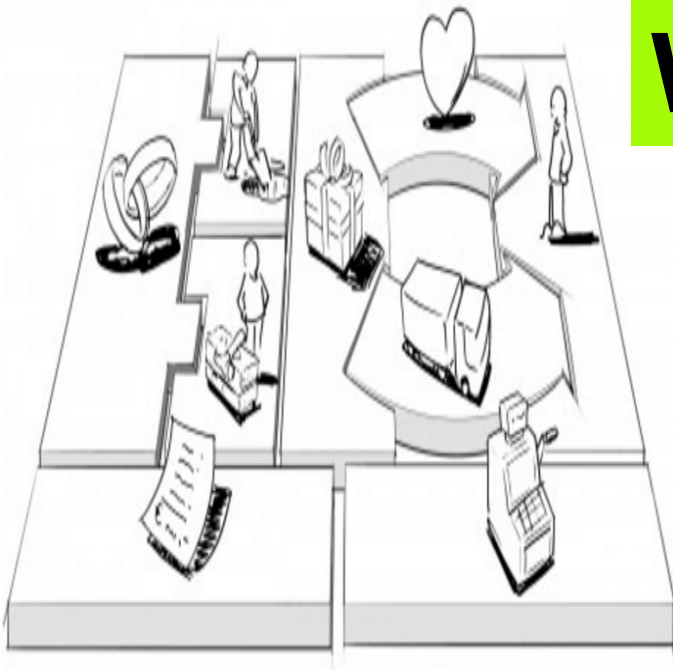


New Technologies, integration and interaction will change business (task 17)

1. More ICT

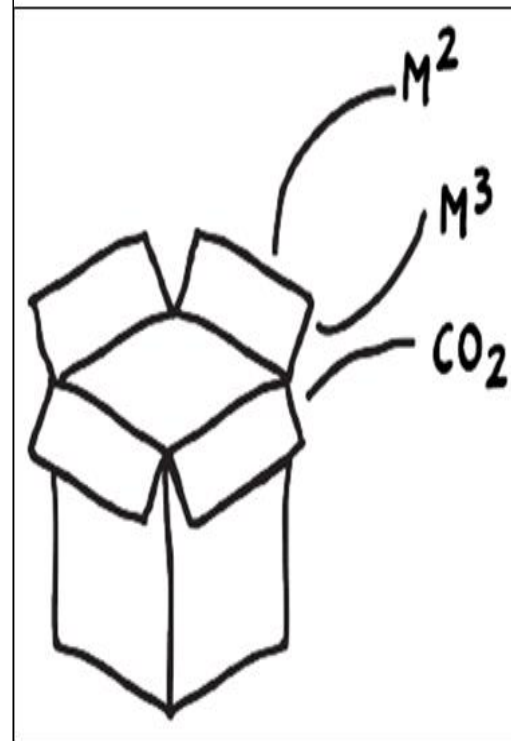


Business models and value creation beyond energy (task 16 and 25)



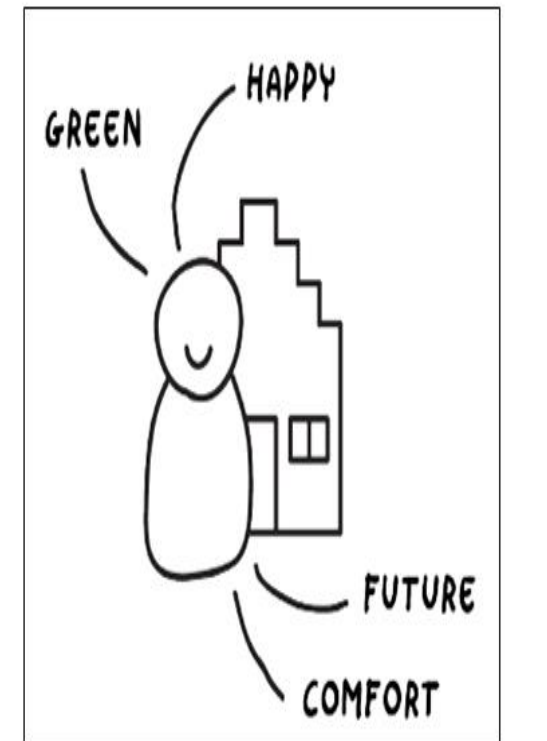
WE

Produkt

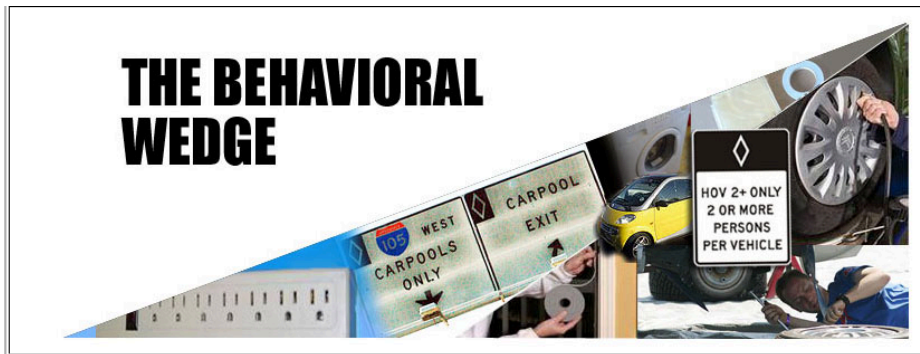


Service

THEY



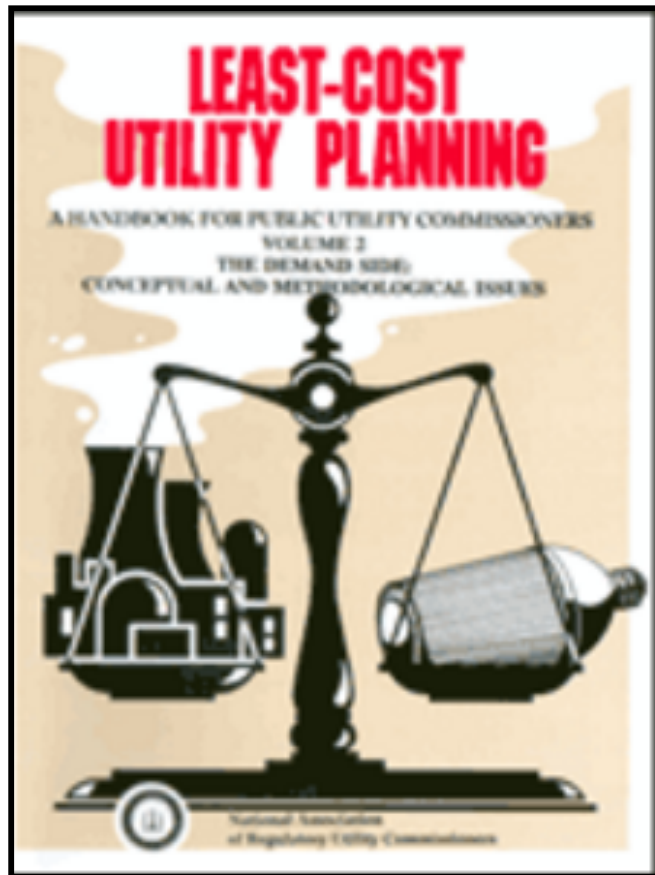
Behaviour (task 24)



BEWARE: DSM is changing shape!

• DSM used to be

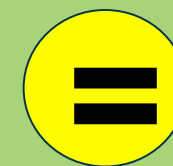
- An (electric) utility issue



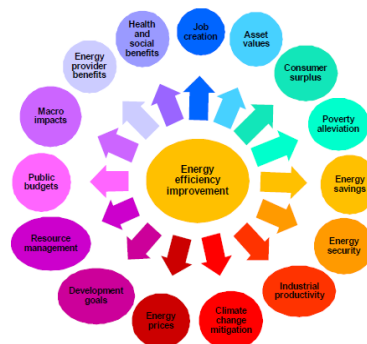
• DSM expands into

- A systemic transformation issue:
 - Societal
 - Financial/economic/market
 - Behavioural and or practice
 - Technological
 - Policy and institutions
 - Services and Value/Benefits
 - Distributional issues, including energy poverty
- Beyond energy (efficiency) to sufficiency
- Beyond demand side to interface
- Including not only consumers, SMEs, industry but also intermediaries!

What will be the future of DSM?

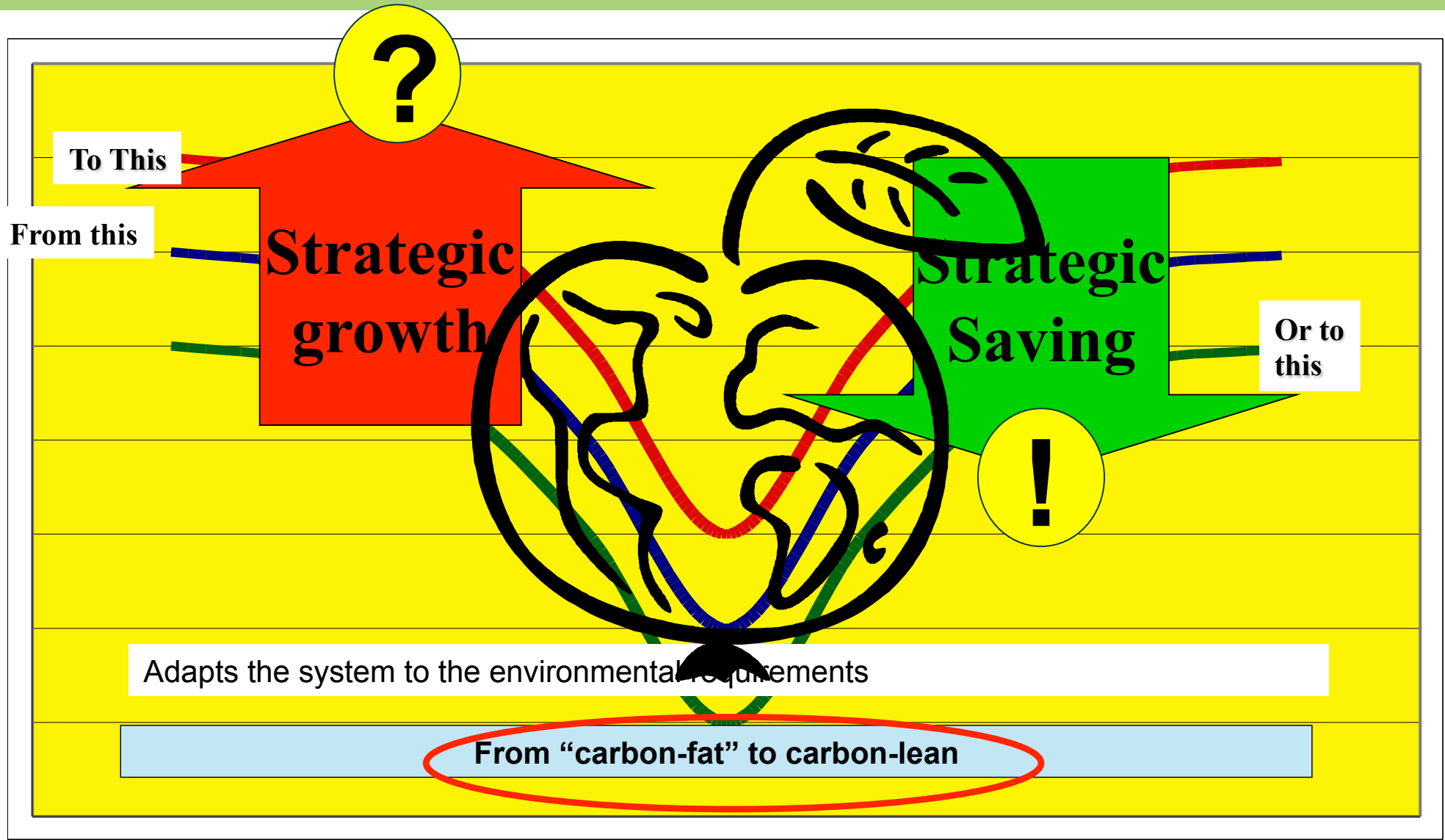


- Flexibility and new governance structures
- Big Data and ICT
- New business models, New financing schemes, e.g blockchain, new tech procurement
- Behaviour of organisations
- Focus beyond energy efficiency and demand to interface between supply and demand
- Integration with renewables
- Distributional issues such as e.g. poverty, security, robustness, welfare
- Non Energy Benefits, e.g. health, productivity, sick leave, and usual suspects
- Smart growth/sufficiency





DSM can change the system: sustainable growth





WHY join us!

- **Wealth of experience and knowledge**
- **Access to best and worst practices, open sharing**
- **Access to network of experts around the world**
- **Country or context sensitive results,**
- **Tailored for support to policy and measures by participating partners**
- **Work on projects that fall in valley of death for projects**
 - **Not consultancy and not research and development but something in between**
 - **Intersectoral and interdisciplinary projects at the interface of public and private interests**
- **Collaboration on systemic transformation towards sustainable demand side, from DS perspective**

Cooperation opportunities



- Going beyond sharing information= Cooperation on projects
 - Share wish-lists and together design tasks
 - Marrying energy efficiency and renewables
 - Writing think pieces/policy briefs together
 - Visiting each others biannual meetings
 - Delivering capacity building and training together
- Use by IEA (secretariat), platform, other TCPs and IPEEC of 'DSM' University
- IPEEC: access to partners and derive new tasks based on G20
- Together courting new players such as Utilities and associations
 - Eurelectric
 - RenovateEurope
 - ...



How to reach us?

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The IEA DSM-Programme

Status of Task	Peak Load	Load Level
<p>Past, Present and Future IEA DSM-Programme tasks</p> <p>Further information on the activities can be found at www.ieadsm.org .</p>	Completed	<p>Task II: Communications Technologies for Demand-Side Management</p> <p>Task VIII: Demand-Side Bidding in a Competitive Electricity Market</p> <p>Task XI: Time of Use Pricing and Energy Use for Demand Management Delivery</p> <p>Task XIII: Demand Response Resources</p> <p>Task XV: Network-driven DSM</p> <p>Task XIX: Micro Demand Response and Energy Saving</p>
	Current	<p>Task XVII: Integration of Demand Side Management, Energy Efficiency, Distributed Generation and Renewable Energy Sources</p> <p>Task XXIII: The Role of Customers in Delivering Effective Smart Grids</p>
		<p>Task XVI: Competitive Energy Services</p> <p>Task XX: Branding of Energy Efficiency</p> <p>Task XXI: Standardisation of Energy Efficiency Calculations</p> <p>Task XXII: Energy Efficiency Portfolio Standards</p>
		<p>Task XXIV: Closing the loop - Behaviour change in DSM, from theory to policies and practice</p> <p>Task XXV: Business Models</p>