



MINUTES

11 - 12 October 2016

Brussels, Belgium

48th Executive Committee Meeting

IEA Demand Side Management Technology Collaboration
Programme

Contents

1. GENERAL BUSINESS	4
Welcome	4
Pre-Meeting Information.....	4
Adoption of the Agenda	4
Approval of the Minutes from the 47th Executive Committee Meeting	4
Addition of a glossary to the Minutes.....	4
Status of the Agreement	4
IEA Secretariat News	5
Contacts with interested countries and sponsors.....	6
Presentation by EGAT's Director of the Demand Side Management and Planning Division.....	7
TCP relations, BCG and ECG	7
Project Preparatory Committee (PPC) report.....	7
International DSM Day, Brussels, Belgium.....	8
2. OPERATING AGENTS MEETING.....	8
3. EXTENSION OF WORK AND NEW WORK	8
Task 26: Multiple Benefits of Energy Efficiency	8
Update: Power System Flexibility as the pillar towards higher vRES shares	9
Data Analytics for Energy Efficiency.....	10
Smart Energy Services/Joint DSM ISGAN project	11
DSM University	11
4. CURRENT TASKS – LOAD SHAPE CLUSTER.....	12
Task 17 – Integration of Demand Side Management, Distributed Generation, Renewable Energy Sources and Energy Storages – Phase 3 – Task Status Report.	12
IEA DSM Task 17 – Subtask 13: Conclusion and Recommendations	12
IEA DSM Task 17 – Subtask 12: Best Practices and Lessons Learned	12
IEA DSM Task 17 – Subtask 11: Valuation Analysis of Residential Demand Side Flexibility.....	12
IEA DSM Task 17 – Subtask 10: Roles and Potentials of Flexible Consumers and Prosumers	12
Potential Follow-Up Activities in Task 17	13
Task 24 – Behaviour Change in DSM – Helping the Behaviour Changers	13
5. CURRENT TASKS – LOAD LEVEL CLUSTER.....	15
Task 16 - Innovative Energy Services - Phase 4	15
Task 25 – Business models for a More Effective Market Uptake of DSM Energy Services	16
6. PROGRAMME VISIBILITY.....	18
Programme Visibility Report	18
Annual Report	18
Spotlight Newsletter.....	18
Programme Brochure	19
Key Publications.....	19
IEA DSM Task 17 – Subtask 13: Conclusion and Recommendations	19
IEA DSM Task 17 – Subtask 12: Best Practices and Lessons Learned	19
IEA DSM Task 17 – Subtask 11: Valuation Analysis of Residential Demand Side Flexibility.....	19

IEA DSM Task 17 – Subtask 10: Roles and Potentials of Flexible Consumers and Prosumers	19
Task 25 – Deliverable 4: Effective business model design and entrepreneurial skills for energy efficiency services	19
Task 25 – Conference paper: Effective Business Model Design and Entrepreneurial Skills for Energy Efficiency Services	19
Task 24 – Subtask 8: The Behaviour Changer Framework.....	19
Task 24 – Subtask 9: SCE-funded psychometric scale testing Report Final.....	19
Task 24 – Subtask 9: Evaluating Energy Culture: Identifying and validating measures for behaviour-based energy interventions.....	20
Task 24 – Subtask 9: ‘Exploring Deep Savings: A Toolkit for Assessing Behavior-Based Energy Interventions’	20
Website.....	20
Statistics.....	20
Social Media	20
Communications Plan and Dissemination Strategies	21
7. ADMINISTRATIVE MATTERS.....	22
Task Zero – Running the DSM TCP.....	22
Strategy discussion – special session	23
2016 Financial Report and proposed Budget 2017	23
Common Fund Payments	24
Plans for the Forty-Ninth and Fiftieth Executive Committee meetings	24
8. OTHER MATTERS.....	25
9. ACTION ITEMS RESULTING FROM THE FORTY EIGHTH EXECUTIVE COMMITTEE MEETING	26
10. ATTACHMENT A	28
Participants.....	28
11. ATTACHMENT B.....	39
Agenda.....	39
12. ATTACHMENT C.....	44
Glossary	44
13. ATTACHMENT D.....	46
Participation Table	46
14. ATTACHMENT E	47
Strategy discussion.....	47
15. ATTACHMENT F	47
Group 1 feedback.....	47

DISCLAIMER: The IEA enables independent groups of experts - the Technology Collaboration Programs, or TCPs. Information or material of the TCP focusing on demand-side management (IEA-DSM) does not necessarily represent the views or policies of the IEA Secretariat or of the IEA's individual Member countries. The IEA does not make any representation or warranty (express or implied) in respect of such information (including as to its completeness, accuracy or non-infringement) and shall not be held liable for any use of, or reliance on, such information.

1. GENERAL BUSINESS

Welcome

The meeting was opened by Francois Brasseur and Hans De Keulenaer who welcomed the participants to Brussels, Belgium on behalf SPF Economie and the European Copper Institute, the hosts for the meeting. Rob Kool, Executive Committee Chairman, welcomed Su-Hyeon Jung, Korea Energy Agency (KEA) the newly appointed Alternate Executive Committee member from Korea, and Simone Maggiore, RSE, Italy, who attended the meeting in the absence of Marco Borgarello. Jirasak Mantharngkul, Electricity Generating Authority of Thailand (EGAT, Thailand attended the meeting as an observer.

The meeting was well attended with 12 countries and sponsors present out of 18. Austria, India, RAP, Spain, USA and Efficiency One, Nova Scotia were unable to attend the meeting.

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 changed a week before the meeting and distributed to Executive Committee members. The agenda was reviewed and approved at the meeting as shown in Attachment (B).

Approval of the Minutes from the 47th Executive Committee Meeting

The Minutes from the 47th 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 Implementing Agreement, other IAs, organisations and working groups. See Attachment (C).

Status of the Agreement

- The Korean Contracting Party has changed their Executive Committee member. The new member is Mr. Sung Moon Jung, Korean Energy Agency (KEA) and replaces Jin-Soo Kim. Ms. Su-Hyeon Jung has replaced Ms. Hyojin Lim. The changes have been formally documented and sent to the IEA Legal Office during the past six months.
- Simone Maggiore informed the Executive Committee members once again that Walter Grattieri, Italy, will retire soon and a new Executive Committee member will be appointed.
- Contacts with China, Dr. Zhou Fuqiu, Director of the Energy Systems Analysis Center, Energy Research Institute, National Development and Reform Commission have been maintained in the past six months.

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 13 - 18 in the Pre-Meeting Document (PMD). Desk Officer, Tyler Bryant attended the second day of the Executive Committee meeting.

A priority of the IEA is to strengthen and accelerate co-operation with non-member countries (partner countries). Enhanced engagement efforts are targeted for Chile and Mexico (in the process of becoming members of the IEA); China, Indonesia, Morocco, Singapore, and Thailand (countries participating in a programme of association with the IEA); and Brazil, India, Russia and South Africa. The following recent activities support this enhanced engagement worldwide:

- A Ministerial-level event in February 2016 which opened the way to creation of an Indonesian Centre of Excellence. Six TCPs 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.
- The Secretariat of the Clean Energy Ministerial will be housed at the IEA in Paris. The 2017 CEM Ministerial will be held in Beijing, China.
- At the June 2016 CERT meeting the Secretariat presented an IEA Global Engagement Report and outlined plans to identify existing TCP training opportunities and their target audience in order to examine ways of integrating TCP training modules into broader **IEA training and capacity building efforts**. A report will be made to the CERT at the November 2016 meeting. TCPs willing to contribute to IEA training and capacity building activities should contact Carrie Pottinger (carrie.pottinger@iea.org).

On October 14th the IEA hosted its first high-level global energy efficiency conference in Paris. The conference featured ministers, business leaders, senior policy makers and leading thinkers in the field of energy efficiency from Europe, Asia, Africa, Latin America and the US. The theme of the conference was innovative action to accelerate progress on energy efficiency. All Executive Committee members were invited to attend.

At the CERT 16-17 February meeting a workshop was held on the margins of the meeting on the theme of **“Maximising the Impact of IEA's Technology Collaboration Programmes through Enhanced Co-operation in the Energy Technology Network”**. The event provided an opportunity for eight TCPs with end-of-term dates within the next 24 months to share recent activities and achievements with CERT delegates.

The June 2016 CERT meeting provided an opportunity for Delegates to discuss the value of these workshops and to consider the focus and shape of the next event which is scheduled to be held on the margins of the February 2017 CERT meeting. Once the focus of the February 2017 event has been decided, the Secretariat will be contacting relevant TCPs to explore contributions.

Important CERT decisions

In February 2016 CERT meeting resulted in two important decisions concerning TCPs:

- New, simplified procedures for TCP requests for extension (RfE), effective for TCPs with end-of-term dates after 1 November 2016.
- A new “Communications Framework” (CF) for enhanced communication between the TCPs (with guidance from the Working Parties) and the CERT. Though the CF is formally effective beginning 1 November 2017, TCPs are encouraged to review the additional opportunities for interaction and reporting as soon as possible.

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 Energy Efficiency Market Report (EEMR) draft is complete and will be launched on October 10th at the World Energy Congress in Istanbul.

Contacts with interested countries and sponsors

Contacts with the National Development and Reform Commission (NDRC) China (through the IEA Secretariat), have taken place. During the past year contacts have also been established with (IBM) Germany, Canada, Australia and Portugal (through Sea) and contacts have continued with, Thailand (EGAT). Contact with Marisa Olano at IDEA have been made. They could possibly replace RED Eléctrica who have tentatively said that they don't want to continue their participation in the DSM TCP. So far though, they have not sent any request to formally withdraw. The DSM TCP has been approached during the last six months by:

- Sergio Diaz, Advanced Center for Electrical and Electronic Engineering (AC3E) Universidad Técnica Federico, Santa Maria, Chile, sergio.diazpi@usm.cl and
- Sebastian Botzler, Center for Sustainable Building, Institute of Energy Efficient and Sustainable Design and Building, Munich School of Engineering, expressing an interest in Task 24 and Task 25. botzler@tum.de

Rob Kool stated that the IEA requires that all countries invited to participate in the DSM IA 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 IA either as a Contracting Party or Sponsor:

IEA Member countries that are not yet participating in the DSM Energy Technology Initiative:

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

Non-member countries that participate in other Energy Technology Initiatives:

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 ETI.

The Executive Committee unanimously:

RESOLVED that IBM (research), Germany and EGAT (Thailand):

- (1) (hereafter 'The Potential Sponsor') be invited to join the DSM IA (Energy Technology Initiative) 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 IA, 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 IA, 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 IA;
 - d) Be entitled to send a representative and an alternate representative to the twice-yearly Executive Committee meetings of the IEA DSM IA;
 - e) Have a full single vote in the Executive Committee, equal to that of a Contracting Party on matters pertaining to the IEA DSM IA 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 IA (see above list of countries)
- renewed Executive Committee approval of the resolution to invite Sponsors

ACTION:

- maintain contacts with China (NDRC), Thailand (EGAT), Germany, Australia, Portugal and Chile.

Presentation by EGAT's Director of the Demand Side Management and Planning Division

Mr. Jirasak Mantharngkul, Director, Demand Side Management and Planning Division, Electricity Generating Authority of Thailand (EGAT) made an interesting presentation on "The Role of EGAT on Energy Efficiency in Thailand" and their interesting energy efficiency programs. The presentation has been uploaded to the DSM website ExCo library.

The Spotlight Newsletter will feature an article about EGAT's energy efficiency programme in the December 2016 issue.

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. He did attend the IPEEC, EUWP and EEWP meetings during the past six months.

The Chairman attended the latest EGRD meeting and EGRD's latest reports are available on the DSM website.

- [Space Cooling. Workshop Summary Report](#) (2016)
- [Island Energy – Status and Perspectives. Workshop Summary Report](#) (2016)

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.

In the past six months the PPC has had two conference calls 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 Executive Committee members **approved** the PPC Report.

DECISION:

- The Executive Committee members **approved** the PPC Report.

International DSM Day, Brussels, Belgium

The international DSM Day on the topic: The Role of DSM to Provide Flexibility in Electricity Systems was hosted by the European Copper Institute and FOD Economie on 13 October and was very well attended by Belgian businesses and organisations as well as Executive Committee members and Operating Agents. Presentations were made by Belgian stakeholders as well as the Chairman and Operating Agents from the DSM TCP. See presentations:

<http://www.ieadsm.org/workshop/dsm-day-brussels-belgium/>

2. OPERATING AGENTS MEETING

The Operating Agents meeting was briefly held on 10 March, prior to the Executive Committee meeting.

- The Chairman informed Executive Committee members that all Tasks are running smoothly.
- There is still a need to discuss ways of financing Tasks.
- Tasks need more participants, specially Task 25.

3. EXTENSION OF WORK AND NEW WORK

Task 26: Multiple Benefits of Energy Efficiency

The Chairman informed the Executive Committee members that there were not enough participants to start Task 26, although there still are some leads. The Task lost money during the Task preparation.

Norway and Sweden are still interested and ISGAN has shown some interest. Two additional countries are needed, and if those countries are identified in the next six months, Task 26 will be given another go.

Executive Committee members **decided** not to start Task 26 at this point.

DECISION:

- Executive Committee members **decided** not to start Task 26 at this point in time

Update: Power System Flexibility as the pillar towards higher vRES shares

An updated concept paper on “Power System Flexibility” was provided on pages 19-23 in the Pre-Meeting Document and was presented by Diego Garcia Carvajal, Copper Alliance, Madrid, Spain.

Diego presented the outline of the project and stated that policies should enable harnessing as much flexibility out of the existing system as possible. Power systems were designed to use flexible generation and power networks to meet variable demand and are not optimally designed in the case when also supply is variable and distributed. As vRES penetration levels increase, changes are needed, to enable harnessing as much flexibility out of the existing system as possible. The policy actions needed can be mapped to five key categories:

- Supply
- Demand
- Grids
- Storage
- Markets

The vision for a new Task is to further develop and test an assessment tool (the Flexibility Tracker) that: a) informs policy makers on the policies needed for the transition to low carbon energy systems; and b) monitors the readiness of the system towards higher vRES shares. An advanced prototype of such a tool already exists and is currently being tested in 8 EU markets.

In this proposed Task, we will develop a systematic assessment of the compliance of different systems to the needed policies and to allow the identification of the respective policy gaps. The idea will be to apply the methodology to a broader set of countries, including countries outside the EU and develop it to a framework for organising the key information of the flexibility and on tracking how planned policies support this vision. This could provide an invaluable tool for tracking the best practices and actions needed for preparing the power systems of the future. An online platform is foreseen in this Task to organise and share the results and help raising awareness.

The ultimate goal of the Task is to create a policy setting tool aiming to synthesise, communicate and promote results from related IEA Tasks and to educate and raise global awareness on the topic of flexibility and energy transition in power systems. In a nutshell the tool will allow:

- Ranking of the vRES readiness (flexibility) of different systems
- Educate on key challenges of flexibility
- Develop a global database on policies on how systems comply to the flexibility challenge
- Identify best practices, investigate regional issues, raise awareness

Most participants expressed that it was an interesting subject. Harry Vreuls, the Netherlands, stated there is still work to do on the proposal and offered to work together with Diego in the next six months to further the proposal. Harry Vreuls will contact the ExCo members of countries which were not present at the meeting.

The Executive Committee **decided** that Harry and Diego will work together in the next six months to further the topic and Harry should contact the Executive Committee members from countries not present at the meeting to solicit their interest.

Decision:

- Harry Vreuls and Diego Garcia Carvajal will work together during the next six months to further explore the topic
- Harry Vreuls should contact ExCo members from countries not present at the meeting

Action:

- Harry Vreuls and Diego Garcia Carvajal will work together during the next six months to further the topic
- Harry Vreuls to contact all ExCo members from countries not present at the meeting

Data Analytics for Energy Efficiency

A concept paper for a new Task on “Data Analytics for Energy Efficiency” was provided on pages 24-31 in the Pre-Meeting Document and was presented by Matthias Stifter, AIT, Austria, via Skype.

The objectives for a new Task on Data Analytics are:

- Evaluation and investigation of various statistical approaches and methods to analyse energy efficiency improvement based on electricity metering data
- Identification and recommendation of accompanying energy consultation actions/information of consumers to maximize energy saving potentials

Proposed Subtasks are:

Subtask 1: Requirements to enable energy efficient analysis

This Subtask will deal with requirements on metering data and systems to enable the specific analytic evaluations as well as the acquisition of sample data to be handled in this Subtask

Subtask 2: Data-based identification of energy saving potentials

This Subtask will identify, evaluate and validate data analytic methods to improve energy efficiency. Methods might reach from monitoring to statistical methods for e.g. energy profile classification to validation of energy saving actions.

Subtask 3: Actions to increase and ensure increase of energy efficiency

This Subtask will deal with identification of best practice of measures and actions to ensure long-term energy savings by energy metering systems

Subtask 4: Knowledge-transfer and dissemination

This Subtask will deal with organising the knowledge transfer and exchange as well as dissemination actions (e.g. website, workshops, publications, reports).

The Task could be organised as a cost-shared or task-shared action.

Several countries were interested in the proposal (Austria, Sweden and the Netherlands). Norway, among others thought the proposal needs to be more precise. A decision was made to work further to bring the concept forward to a proposal and present it at the next ExCo meeting.

The Chairman will send an e-mail to the new ECB Chairman, Michele de Nigris and ask him to have a look at the concept paper and see how it can be combined and inform him of the thoughts around the proposal.

The Executive Committee thanked Stefan and Matthias and **decided** that Matthias should forward the concept into a proposal and present at the next ExCo meeting.

DECISION:

- Executive Committee members **decided** that Matthias should further the concept into a proposal in the next 6 months and present at the next ExCo meeting.

ACTION:

- Matthias to further the concept into a proposal in the next 6 months and present at the next ExCo meeting.

Smart Energy Services/Joint DSM ISGAN project

A concept paper on Smart Energy Services/Joint DSM ISGAN was provided on pages 56 – 57 in the Pre-Meeting Document by M. Hübner, F. Lundström and M. Stifter and was presented by Stefan Galsworthy, who also made a presentation about Quby, the Netherlands.

Executive Committee members **decided** ISGAN was the TCP to take the lead in establishing the Task, as it is supply side driven, but DSM would support it where-ever possible.

DECISION:

- Executive Committee members **decided** that ISGAN is the TCP to take the lead in establishing the Task

DSM University

The Status Update Report for the DSM University was provided on pages 62-65 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 in users and interested parties, thanks to the Leonardo Energy's webinar platform provided by the European Copper Institute.

Contacts have developed with IPEEC, the IEA Secretariat and parts of GIZ (Tanzania) at the eceee Summer Study, but also with local actors to promote and make use of the webinars and associated material. Until September 2016, 25 webinars have been arranged and broadcast.

The webinars are considered to be the “heartbeat” of the DSM University and have so far attracted over 3500 active participants. The webinars can also be reached through www.dsmu.org and www.dsmuniversity.org

The webinars are divided into 6 themes:

- Theme 1: The logic of DSM
- Theme 2: Governance (Energy Management)
- Theme 3: Energy Efficiency (load level)
- Theme 4: Flexibility (load shape)
- Theme 5: Integration
- Theme 6: Business models

Hans Nilsson stated that there is a need for consolidation so (a group of) participants can rely on that the information provided has a stability and is meaningful in 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 a reputation in the field of energy efficiency. Several of the Operating Agents of 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

4. CURRENT TASKS – LOAD SHAPE CLUSTER

Task 17 – Integration of Demand Side Management, Distributed Generation, Renewable Energy Sources and Energy Storages – Phase 3 – Task Status Report.

The Task Status Report for Task 17 – Integration of Demand Side Management, Distributed Generation, Renewable Energy Sources and Energy Storages was provided on pages 32 – 35 in the Pre-Meeting Document and was presented by René Kamphuis, TNO, The Netherlands.

René started his presentation by stating that Task 17 Phase 3 has come to an end and reminded the Executive Committee members that Phase 3 has addressed the current role and potential of flexibility in electricity demand and supply of systems of energy consuming/producing processes in buildings (residential, commercial and industrial) equipped with DER (Electric Vehicles, PV, storage, heat pumps, etc.) and their impacts on the grid and markets.

All deliverables have been finalised in the past six months and can be found on the DSM website (see <http://www.ieadsm.org/task/task-17-integration-of-demand-side-management/>) or see links below.

[IEA DSM Task 17 – Subtask 13: Conclusion and Recommendations](#)

12 October 2016

[IEA DSM Task 17 – Subtask 12: Best Practices and Lessons Learned](#)

12 October 2016

[IEA DSM Task 17 – Subtask 11: Valuation Analysis of Residential Demand Side Flexibility](#)

12 October 2016

[IEA DSM Task 17 – Subtask 10: Roles and Potentials of Flexible Consumers and Prosumers](#)

12 October 2016

Objectives for the next six months include:

- Come up with a proposal for Task 17 Phase 4 which will be based on conclusions from Phase 3

Several activities were proposed:

- Metering > Monitoring
- Control > Coordination
- Passive > Active (distribution) grids
- Tariffed > Transactive Energy
- Write a conference paper for CIRED 2017
- Write a Journal Review paper

In the next few months a final report will be written and will be presented at the next ExCo meeting.

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

DECISION:

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

Potential Follow-Up Activities in Task 17

Several activities were proposed:

- Evaluation Measurement and Verification of DR
- Forecast and Reliability (of power systems)
- Cost Benefit Analysis for DR

Matthias will continue to develop the proposal in the next six months and present at the next Executive Committee meeting.

ACTION:

- Matthias to continue to develop the proposal and present at the next Executive Committee meeting.

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 36 – 49 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, has 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: a) what; b) who; 3) how; 4) why; and 5) so what.

Progress towards objectives during the past six months include:

Subtask 5 – (1) Expert platform continually growing (>240 experts) and getting used (2) new content including 145 presentations and videos have been uploaded (3) continue publicising and dissemination of Task 24, including at international conferences.

Subtask 6 – (1) has held over 15 workshops in NL, CA, SE, IE and at the eceee Summer Study and Energy Cultures, BECC and BEHAVE conferences; (2) collection of lists of DSM interventions and energy efficiency and behaviour priorities in each of the participating countries has commenced and a report template has been created; (3) top three issues in each country have been discussed during workshops and the following main interventions have been decided:

- Powering tomorrow's neighbourhoods via smart grid sharing – **New Zealand**
- Supporting building management operators in hospitals to produce better documentation and communication of energy savings – **Canada** (on hold due to funding)
- Landlords and tenants co-designing green leases in commercial buildings – **Sweden**
- Promoting better use of ICT in universities – **the Netherlands**
- Using public libraries to help community-led energy efficiency actions – **Ireland**
- Getting hospital building operators to change set-points to save energy – voluntary ST 11 (USA)

Task 24 still needs to develop the top three issues in Austria.

Subtask 7 – (1) Behaviour Changers have been identified for the top issues decided on in Subtask 6 for Canada, Sweden, the Netherlands, US and New Zealand. Their sector stories have been told during workshops and deep discussions have been initiated around relationships, mandates, stakeholders, restrictions and value propositions for each of the Behaviour Changers using the 'Behaviour Changer Framework'.

Subtask 8 – (1) some work on continued development of the evaluation tools from Subtask 3 and Subtask 9 have taken place; (2) Task 24 is currently working on a Special Edition Issue on Storytelling for the Journal of Energy and Social Science Research; and (3) in addition the Task 24 "magic carpet for behaviour change" collaboration tool has been published at the ACEEE Summer Study, the BEHAVE conference and in a special edition in Energy Efficiency.

Subtask 9 – (1) Karlin (the principal investigator of this Subtask) et al have published a paper at the IEPPEC conference in August 2016 that outlines the basics of the Beyond kWh toolkit which is being developed for Subtask 9 and report by Southern California Edison that gives the results from the psychometric testing of Californian utility customers.

Meetings

Four stakeholder meetings two Experts meetings and one meeting at the IEA have been held in the past six months.

One workshop (Vienna), three conferences (Wellington, NZ, Coimbra, Portugal and Monterey, U.S.) and two lectures (Australia) have been held in the past 6 months.

Work planned for the next six months include:

Subtask 5: (1) continue attracting experts to the experts platform; (2) work on reviewing >50 papers for special edition on storytelling.

Subtask 6: (1) continue with issues definition including countries that haven't started yet (Austria); and (2) start writing issues reports and collate DSM lists in New Zealand, Sweden, Netherlands, and Ireland.

Subtask 7: (1) hold another 5 workshops in the next six months (BEHAVE, Netherlands, Sweden, Austria, USA 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, including the paper for the special edition on storytelling in energy and climate change and a paper for a special edition in 'Energy Efficiency'

Subtask 9: (1) continue working on the 'Beyond kWh' toolkit and see how to best utilise it for the 3 participating countries.

Sea stated that matters for the ExCo involved having only 3 countries paying towards Subtask 9, though the requisite 4 countries to undertake in-depth country validation for an international 'standard' are needed: Subtask 9 is continuing to develop and test the tool, paid by the utilities in the U.S. and is accessible to the 3 participating countries. If these 3 countries want to use the tool in the design and implementation of Subtask 7, Task 24 can arrange to do so, but it will not be a "formal international validation".

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

DECISION:

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

5. CURRENT TASKS – LOAD LEVEL CLUSTER

Task 16 - Innovative Energy Services - Phase 4

Task 16, Phase 4 was provided on pages 43 – 49 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 will continue with the well-established structure already available in earlier Phases of Task 16. Phase IV will focus on Life-Cycle Cost Appraisals; 'Deep Retrofit'; Simplified M&V; (Crowd)-Financing for EE & RE projects & Energy Services Taxonomy and be disseminated via the DSM University. Phase IV was initiated in July 2015 and will end June 2018.

Four countries have committed so far GIZ (for 9 months), Nova Scotia (in kind only), Belgium, Netherlands, Norway and Switzerland.

Work accomplished in the past six months:

Subtask 19 Energy Service Expert Platform: (1) execution of several expert platform teleconference on life cycle cost analyses through RETSCREEN and life-cycle cost-benefit analysis (LCCBA); (2) joint submission of an abstract for the eceee Summer Study; and (3) initial preparations for the 20th experts meeting, to be held 28-29 May, back to back with the eceee Summer Study.

Subtask 19 + 23 ES Expert Platform & Dissemination: (1) presentation at Dutch national stakeholder workshop 4 October, 2016 and was attended by 150 participants from Dutch communities.

Subtask 20 Think Tank: (1) simplified measurement and verification using quality assurance instruments: A proposed concept for energy, water and co2-saving projects; (2) crowd-financing for energy efficiency and renewable investments; and (3) life-cycle cost & 'deep retrofit' & multiple benefits (submission of abstract to the eceee Summer Study) titled; Deep Energy Retrofit: using Dynamic Cash Flow Analysis and Multiple Benefits to Convince Investors.

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 were given in the past six months.

Work planned for the next six months includes:

Subtask 19 Energy Service Expert Platform: (1) preparation of the 20th experts meeting and stakeholder workshop to be held 28-29 May, 2017 in France (back to back with eceee Summer Study 2017); and (2) continue to hold expert platform teleconferences on selected Think Tank topics.

Subtask 19 + 23 Stakeholder workshops: (1) presentation at Dutch national workshop 4 October.

Subtask 20 Think Tank: (1) finalize submission of proposed concept for peer-review and possible publication in the journal Renewable & Sustainable Energy Reviews.

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) to follow-up, the experts 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.

The next Task 16 DSM webinar will take place in the second quarter of 2017 on the topic: Deep Energy Retrofits: Using Dynamic Cash Flow analysis and Multiple Benefits to Convince Investors.

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

DECISION:

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

ACTION:

- Operating Agent should continue current talks with interested countries

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

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 49 - 55 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**; (1.2) attendance at Executive Committee meetings, conference and reporting to the Executive Committee is on-going; and (1.3) feedback to a group of stakeholders (ExCo, IEA, intermediaries from research industry, government, community sectors) is on-going as alternative to the set-up of an Advisory Board.

Subtask 2: (1) identifying country specific suppliers, clients and their stakeholder networks and trying to establish national advisory expert networks. This has been **completed** for NL. AT. CH. SE and NO and is **on-going** for South Korea. (2) narrowing down the focus of both services, target groups and typology of business models in close cooperation with national experts and other relevant stakeholders has been **completed**; (3) clarifying how the different parameters of success of business models and services will relate to each other in the analysis. Discussed during workshop March 10 and through literature review being conducted and has been **completed**; (4) developing a Task specific typology or categorisation of business models and services for EE has been **completed**; (5) develop an overview of existing energy service business models in the participating countries and their frameworks/ecosystem and how they meet and incorporate clients needs has been **completed** for all countries except South Korea; (6) review global existing business models has been **completed**; (7) conducting in-depth comparative analysis of around 4 similar business models in different countries and around 12 per country has been **completed** for NL. SE. AT and CH and Norway will be completed end of 2016 and South Korea will be completed in the spring of 2017; (8) identify key factors that make services succeed in the participating countries; and has been **completed** for NL, AT, SE, CH and NO and is **on-going** for South Korea;

(9) organising country workshops with service providers and clients has been completed for all countries except NO and South Korea.

Subtask 4: (1) set up a stakeholder communication and engagement plan has been **completed**; (2) traditional dissemination to external stakeholders and academia has been **completed**; and (3) creating and facilitating a good connection to existing digital and off-line expert platforms within the IEA, e.g. the expert platforms of Task 16 and 24 and other relevant Task s and expert platforms for other IAs is **on-going**.

Many teleconference and Skype meetings have been held with individual experts and no experts physical meetings have been held in the past six months.

Reports produced in the past six months include: (1) literature review user centric design in business models; (2) presentation of Task 25 as a webinar (online publication); (3) presentation of Task 25 at IEA workshop on influencing business behaviour and decision making towards increased energy efficiency; (4) presentation at IEA DSM EXCO Canada DSM day; (5) thesis with analysis of Dutch shortlisted cases and impact of user centered design and service orientation on business models; (6) first Task 25 newsletter; (7) global analysis of business models, long-list and shortlist (confidential for now, distributed amongst partners only); and (8) spotlight issue on results of analysis; (9) article in the Swedish magazine Energy Efficiency on the Task 25 work in Sweden; (10) D2, D3 and D4 reports are in progress; (11) conference paper for BEHAVE conference on business models has been written; (12) paper for special issue Journal for Cleaner Production on user centered business modelling for energy efficiency services; (13) paper for special issue Energy Efficiency Journal on business models, capabilities and context; and (14) contribution to the Energy Efficiency Market Report of the IEA 2016.

Objectives for the next six months include:

Subtask 1 Task Management: (1) overall project coordination and management, including contact relationship management; (2) attendance at Executive Committee meetings, conference and reporting to the Executive Committee members; and (3) continued interaction with stakeholders (ExCo, IEA, intermediaries from research, industry, government, community sectors).

Subtask 2: (1) completing the deliverable per country and finalising the comparative analysis per typology of business model.

Subtask 3: (1) start developing frameworks for potentially effective business models and services with national stakeholders; (2) create policy guidelines with necessary policies and strategies of different stakeholders; (3) where relevant, contribute to the setting up of piloting activities in each participating country.

Subtask 4: (1) continue to link to existing DSM IA expert platforms and experts and maintain a section for Task 25.

Planned Experts meetings: October 14, 2016 in Brussels.

Reports in the next six months include: (1) D2 for Norway, Austria, South Korea and Switzerland; (2) D€ final reporting once all D” reports are delivered; and (3) acceptance of papers submitted to Energy Efficiency and Journal for Cleaner Production.

The Executive Committee members **approved** the Task Status Report and the definition of new Subtasks.

DECISION:

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

6. PROGRAMME VISIBILITY

Programme Visibility Report

The Programme Visibility Report was provided on pages 58 - 61 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-Chairs Maria Alm, Andreas K. Enge, 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 2015 Annual Report, including a Theme Chapter on “DSM stories in participating countries” was made available electronically to Executive Committee members, Operating Agents and the EUWP and EEWP by the end of January 2016 and was uploaded to the IEA DSM website. Printed copies were sent out to the EUWP, EEWP, Executive Committee Members and Operating Agents in March 2016.

It was decided at the ExCo 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 already/will be provided every year.

The Executive Committee members decided that the topic for the AR 2016 will be: What does DSM mean in your country?

Spotlight Newsletter

In the past six months two issues of the Spotlight Newsletter (Issues 61 and 62) 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 61 – June 2016:

- Note from the Chairman
- Task 24 – A beautiful behaviour collaboration is taking place in the IEA
- DSM University
- South Korea – The energy paradigm shift means a bright future for the economy and the environment

Topics in Issue 62 – September 2016:

- Towards 100% renewable energy supply – strategic development of power system flexibility
- Note from the Chairman
- Ireland – The home Energy Efficiency Conundrum
- Task 25 – Towards a Service Supporting Business Model
- Task 17 – International Symposium – Demand Flexibility and RES Integration

The next issue of the Spotlight Newsletter will be distributed in December. Four issues of the Spotlight Newsletter are scheduled for 2017. However, this is only possible if everybody contributes. 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

The next dates for submission to the Spotlight Newsletter issues are:

Issue 63/Dec 2016 – articles due 15 Nov
Issue 64/March 2017 – articles due 15 February
Issue 65/June 2017 – articles due 15 May
Issue 66/September 2017 – articles due 15 August

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.

Programme Brochure

The DSM Brochure is the DSM Programme's main PR document and is designed to last 3-5 years.

The brochures have been sent from New Zealand and arrived in Stockholm.

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 September 2016.

Key Publications

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

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

[IEA DSM Task 17 – Subtask 13: Conclusion and Recommendations](#)

12 October 2016

[IEA DSM Task 17 – Subtask 12: Best Practices and Lessons Learned](#)

12 October 2016

[IEA DSM Task 17 – Subtask 11: Valuation Analysis of Residential Demand Side Flexibility](#)

12 October 2016

[IEA DSM Task 17 – Subtask 10: Roles and Potentials of Flexible Consumers and Prosumers](#)

12 October 2016

[Task 25 – Deliverable 4: Effective business model design and entrepreneurial skills for energy efficiency services](#)

25 July 2016

[Task 25 – Conference paper: Effective Business Model Design and Entrepreneurial Skills for Energy Efficiency Services](#)

25 July 2016

[Task 24 – Subtask 8: The Behaviour Changer Framework](#)

24 July 2016

[Task 24 – Subtask 9: SCE-funded psychometric scale testing Report Final](#)

24 July 2016

[Task 24 – Subtask 9: Evaluating Energy Culture: Identifying and validating measures for behaviour-based energy interventions](#)

24 July 2016

[Task 24 – Subtask 9: 'Exploring Deep Savings: A Toolkit for Assessing Behavior-Based Energy Interventions'](#)

24 July 2016

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 and is undergoing 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, like news and events. It is very easy for information to become out-dated. It is particularly important to upload any new reports and publications as soon as they come out. 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

Total website hits:

December 1, 2015 – February 14, 2016: 1894 sessions, 5125 page views

March 1, 2016 – August 31, 2016 7,493 sessions, 17,384 page views

Hits per day:

December 1, 2015 – February 14, 2016: 25

March 1, 2016 – August 31, 2016: 40.7

Average time on website:

December 1, 2015 – February 14, 2016: 2min 44 sec

March 1, 2016 – August 31, 2016: 2 min 13 sec

Google Analytics

GA from March 1, 2015 – August 31, 2016 show 17,384 page views with 5,242 users who spent an average of just over 2 minutes on the website.

Downloaded reports for Tasks – we had 91 total downloads since Dec 1, 2015 of which 56 were unique files (including legal texts but excluding Spotlight newsletters which do not show up in this analysis). Most files were downloaded from three Tasks (Tasks 13, 17 and Task 24).

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 184 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) with 33 members and staying static. Most posts are by Anne Bengtson and Sea Rotmann. We would need to actively invite people into this group in order to achieve the professional reach that LinkedIn could afford. It was agreed at the

meeting that this group should be closed as it is not being used to its fullest extent.

- **Twitter** (@IEADSM) with 399 followers. 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 posting for this group.
- **IEA DSM YouTube Channel** - with 54 videos – 35 are Task 24 videos and 19 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, 16 followers and we are in the top 5% most viewed slide shares.
- **IEA DSM YouTube Channel** – has 54 videos – 35 are Task 24 videos and 19 are the DSM University webinars. There is a need for more content from other Tasks. The Visibility Committee Chairman suggested starting to film Executive Committee workshops as a great way to distribute visual information fast.
- **Slideshare IEA DSM Programme Bengtson:** only recently launched (Dec 2014) and already highly successful with 142 slide shares. However, unless Operating Agents send their slides to the Secretary to upload with specific instructions to do so, the slides will soon also become outdated.
- **Task 24 Expert Platform** - 235+ 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 and includes 145 videos and presentations, 125 photos, 6 blog posts, over a dozen discussions, all events associated with the Task, 4 Subtask Groups and member chat and email functions and all expert's short biographies and interests.
- **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).

The Executive Committee members **decided** to close the DSM LinkedIn group.

DECISION:

- Executive Committee members decided to close the DSM LinkedIn group

Communications Plan and Dissemination Strategies

The Visibility Committee Chair has drafted a communications plan for the DSM TCP and has been presented to the Executive Committee earlier. In the plan, we analyse in detail our communications history, what works and what doesn't, who our audience is and how well we service them and how we can improve our plan going forward. It should ultimately include individual Task Dissemination Strategies to ensure that the website, Spotlight newsletters and social media channels are utilised well by all Tasks to report their findings and other relevant events. The communications plan has been updated and signed-off by the Executive Committee members in 2015.

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
- Close the DSM LinkedIn group

ACTION:

- Close the DSM LinkedIn group

7. ADMINISTRATIVE MATTERS

Task Zero – Running the DSM TCP

The Task Zero Update was not distributed in the Pre-Meeting Document and was presented orally by Hans Nilsson, Advisor.

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 will be gathered into a Task called Task ZERO. This Task is mandatory for participants and builds on both cost- and task-sharing.

The purpose of “Task ZERO” is to create a platform for dissemination of results from the IEA DSM Energy Technology Initiative in accordance with its mission.

1. Aims are to provide insights and transparency of the work. The main products for this are:
 - a) The Website
 - b) The Annual Report
 - c) The Spotlight Newsletter
 - d) Flyers about the Programme and the Tasks
2. Local networks to enable dissemination of results within the areas of the participants and to support them in recruiting the expertise necessary for Tasks in which they have decided to participate, but also to gather material of interest for other Tasks who need local points of contact for their work
3. The “DSM-University” as a way to communicate DSM material that is tailored to the circumstances of the receiver. The main thrust to reach a global audience are the webinars that are primarily designed for output, but may also be used for input in a way that audiences can communicate back responses, needs and wishes. The DSM University should gradually build facilities for formal training and courses.

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.

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 led by Maria Alm and Rob Kool and the Power Point presentation can be found in Attachment E. Issues which were discussed included:

- What do Executive Committee members do to prepare for meetings?
- What are the national challenges?
- How can other Executive Committee members be of assistance?
- How can (vice) chairs be of assistance?

- What do we want the DSM TCP to be/do for participants?
- The setting of new Tasks – roles
- Some ideas on new funding models
- Work on capacity building as the global arena for DSM
- Action plan
- DSM activities besides Tasks that create value for the participants

The Executive Committee members broke up into three discussion groups. See Group 1 feedback in Attachment F.

The work on the strategy will continue at the next Executive Committee meeting.

2016 Financial Report and proposed Budget 2017

Andreas K. Enge, Vice-Chairman, Norway, with support from Anne Bengtson, Executive Secretary prepared the financial report for the period 1 January through 31 December 2015. The Financial report was provided in part 2 of the Pre-Meeting Document.

In 2015 DSM experienced a loss due to less income (country contributions) and more expenses (website). For 2016 the contribution to the Common Fund is more on track even if there a couple of contributions missing (so far). On the expenses the prognosis is that we will use less than the budget (Annual Report and ExCo Reserve Fund). In total we expect there to be a small net contribution to the balance by the end of the year, but not enough to compensate for 2015. Expected end of year balance USD 100.000.

Total income is unchanged from the 2016 budget, assuming all countries eventually will pay their contribution to the Common Fund.

As proposed the 2017 budget will strengthen the reserves with USD 18.000.

At the 48th Executive Committee meeting some questions were raised on the accounting practice linked to “Replenishment of the Common Fund”.

The Account Manager of DSM is Joe Miller, Accountax Enterprises Inc, US. Joe Miller has an account on DSM’s behalf in Florida, US and takes care of all transactions in and out of that account based on invoices signed by the vice chair of DSM (or the chair if needed).

DSM has no formal contract with Joe Miller and the existing practice is based on a long lasting relationship between Joe Miller and the DSM TCP (IA). The background for the use of an account manag

er is that DSM as all other TCP's (IA's) is not a legal entity. Hence cannot establish its own bank account.

The general provisions for the TCPs (IAs) is that they could assign an operating agent for the TCP (IA). That operating agent should bare all legal responsibilities.

DSM has no operating agent as such, but have an account manager (Joe Miller), a secretary (Anne), advisor (Hans), and Spotlight Editor (Pam) which in total performs the tasks that might (in full or partly) have been covered by an operating agent.

Recommendations for further actions from the vice chair were:

- Establish a contract with Joe Miller based on existing practices
- Look into how the operational activities of DSM is organised as part of the strategic discussions on future DSM activities.

The Executive Committee **decided** that Andreas would start discussions with Joe Miller and set up a contract with him.

Executive Committee members should let Joe Miller know as soon as an invoice has been paid – with a copy to Anne Bengtson.

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

DECISION:

- Executive Committee members **approved** the financial report 2016 and Budget 2017.
- The Executive Committee **decided** that Andreas would start discussions with Joe Miller and set up a contract.

ACTION:

- Executive Committee members should let Joe Miller know as soon as an invoice has been paid – with a copy to Anne Bengtson
- Andreas should start discussions with Joe Miller and set up a contract with him.

Common Fund Payments

India have not paid their 2015 and 2016 invoices and a few other countries have not paid their 2016 invoices, but no problems are foreseen in receiving these funds. 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

Plans for the Forty-Ninth and Fiftieth Executive Committee meetings

The 49th Executive Committee meeting will be held in Dublin, Ireland on 10 –12 May 2017. On the 10 of May a seminar is planned.

The Netherlands, tentatively offered to hold the 50th Executive Committee meeting in October 2017. Exact dates and location are still to be determined.



8. OTHER MATTERS

In the future the first day of the Executive Committee meeting will include Executive Committee members and Operating Agents. The second day will be open only to Executive Committee members.

The Executive Committee members thanked Francois Brasseur and Hans De Keulenaer for the excellent meeting arrangements and the Chairman adjourned the meeting.

9. ACTION ITEMS RESULTING FROM THE FORTY EIGHTH EXECUTIVE COMMITTEE MEETING

11 – 12 October, 2016 – Brussels, Belgium

WHO	ACTION	WHEN
India Korea Spain	Pay Common Fund invoice for 2015	ASAP
India Spain	Pay Common Fund invoice for 2016	ASAP
Anne Bengtson	Keep reminding those who have outstanding payments to the Common Fund	On-going
Andreas K. Enge	Start discussion with Joe Miller and set up a contract between him and the DSM Programme	ASAP
ExCo members	Let Joe Miller and Anne Bengtson know when an invoice is paid	On-going
Rob Kool Sea Rotmann	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
Harry Vreuls Diego G. Carvajal	Work together to further the topic on Power System Flexibility as the pillar towards higher vRES shares	On-going
Harry Vreuls	Contact Executive Committee members from countries not present at the meeting	ASAP
Matthias Stifter	Further the concept on Data Analytics for Energy Efficiency into a proposal and present at next Exco meeting	On-going
Rob Kool Sarah Mitchell	Establish contact with Efficiency One social media team to help DSM TCP with their social media	ASAP
Operating Agents	Update a more clear definition in Legal Annex text of their Task	ASAP
Matthias Stifter René Kamphuis	Further proposal for a Task 17 Phase 4 and present at the next ExCo meeting	On-going
Sea Rotmann Anne Bengtson	Close the DSM LinkedIn group	ASAP
Anne Bengtson Josephine Maguire	Prepare administrative details for the Forty Ninth Executive Committee Meeting in Dublin, Ireland	ASAP
Anne Bengtson	Send out invitations first week of March	1-7 March 2017
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 2016 March 2017
Operating Agents	Include 1-2 slides in Task presentation, highlighting the main findings to date in respective Task(s).	Present at next ExCo meeting
Jan W. Bleyl	Task 16 Phase IV: Continue talks with interested countries	On-going

Cont. Action Items

Hans Nilsson	Task Zero: Prepare Task Status Report and send to Anne Bengtson for inclusion in the Pre-Meeting Document.	Friday 7 April 2017
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 7 April 2017
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 7 April 2017
Matthias Stifter René Kamphuis	Prepare Task Status Report for Task 17 and send to Anne Bengtson for inclusion in the Pre-Meeting Document (PMD).	Friday 7 April 2017
Rob Kool	Prepare PPC progress report and send to Anne Bengtson for inclusion in the Pre-meeting Document (PMD).	Friday 7 April 2017
Matthias Stifter René Kamphuis	Prepare further developed proposal on further activities in Task 17 and send to Anne Bengtson for inclusion in the PMD.	Friday 7 April 2017
Matthias Stifter	Prepare proposal on Data Analytics for Energy Efficiency and send to Anne Bengtson for inclusion in the Pre-Meeting Document	Friday 7 April 2017
Sea Rotmann	Prepare Task Status Report Task 24 Phase II and send to Anne Bengtson for inclusion in the Pre-Meeting Document (PMD).	Friday 7 April 2017
Ruth Mourik	Prepare Task Status Report for Task 25 and send to Anne Bengtson for inclusion in the Pre-Meeting Document (PMD).	Friday 7 April 2017
Andreas K. Enge Anne Bengtson	Prepare Financial Report and send to Anne Bengtson for inclusion in the Pre-Meeting Document	Friday 7 April 2017
Sea Rotmann	Prepare Visibility Committee Report for inclusion in the Pre-Meeting Document.	Friday 7 April 2017
Weber Web	Provide statistics for every Task every six months and send to Sea Rotmann/Anne Bengtson for inclusion in the Pre Meeting Document.	Friday 7 April 2017
Anne Bengtson	E-mail pdf file of Pre-meeting Document for the Forty Sixth ExCo meeting to the Executive Committee members and Operating Agents.	Monday 17 April 2017

10. ATTACHMENT A

Participants

Executive Committee Members DSM Technologies and Programmes

*Participants at the Executive Committee meeting 11 - 12 October 2016, Brussels, Belgium

Chairman

Mr. Rob Kool*
Netherlands Enterprise Agency
Croeselaan 15
P.O. Box 8242
3521 BJ Utrecht
The Netherlands
Telephone: (31) 886 022 503
Telefax: (31) 886 029 025
Mobile: (31) 646 424 071
E-mail: rob.kool@rvo.nl

Vice Chairman

Mr. Andreas K. Enge*
ENOVA
Abelsgate 5, N-7030 Trondheim
Telephone: (47) 73 190430
Mobile: (47) 99 790 785
Telefax: (47) 73 19 04 31
E-mail: andreas.k.enge@enova.no

Vice Chairman

Mr. Boris Papousek (till 18 March 2016)
Grazer Energieagentur GES.m.b.H
Kaiserfeldgasse 13/1, A-8010 Graz
Telephone: (43) 316 811 848-0
Telefax: (43) 316 811 848-9
E-mail: papousek@grazer-ea.at

Dr. Maria Alm* (from 8 April, 2016)
Swedish Energy Agency
Box 310
S-631 04 Eskilstuna
Telephone: (46) 16 544 2000
Telefax: (46) 16 544 2099
E-mail: maria.alm@energimyndigheten.se

Chairman of the Visibility Committee

Dr. Sea Rotmann*
SEA-Sustainable Energy Advice
43 Moa Point Road
6022 Wellington
Telephone: (64) 4380 7374
Mobile: (64) 212 469 438
E-mail: drsea@orcon.net.nz
Twitter: @DrSeaRotmann
Facebook: DrSea Rotmann
LinkedIn: Dr Sea Rotmann

AUSTRIA

Mr. Boris Papousek (till 18 March 2016)
Grazer Energieagentur GES.m.b.H
Kaiserfeldgasse 13/1, A-8010 Graz
Telephone: (43) 316 811 848-0
Telefax: (43) 316 811 848-9
E-mail: papousek@grazer-ea.at

Contacts for Austria

Ms. Sabine Mitter
E-mail: sabine-mitter@bmvit.gv.at

Mr. Michael Huebner
E-mail: Michael.huebner@bmvit.gv.at

BELGIUM

Mr. Francois Brasseur*
Attaché
Direction Générale Energie –
Relations Extérieures
SPF Economie
Boulevard du Roi Albert II, 16, 1000 Bruxelles
Telephone: (32) (0) 22 779 852
Telefax: (32) (0) 22 775 202
E-mail: francois.brasseur@economie.fgov.be

FINLAND

Mr. Jussi Mäkelä*
TEKES
P.O. Box 69
FI-00100 Helsinki
E-mail: jussi.makela@tekes.fi

INDIA

Dr. Ajay Mathur
Director General
Bureau of Energy Efficiency
Government of India, Ministry of Power
4th Floor, Sewa Bhawan
R.K. Puram, Sector 4, New Delhi – 110066
Telephone: (91) 11 2617 8316
Telefax: (91) 11 2617 8328
E-mail: dg-bee@nic.in

Ms Pravatalanalini Samal
Bureau of Energy Efficiency
Government of India, Ministry of Power
4th Floor, Sewa Bhawan
R.K. Puram, Sector 4, New Delhi – 110066
Telephone: (91) 11 2610 4834
Telefax: (91) 11 2617 8352
E-mail: psamal@beenet.in

Mr. Arijit Sengupta (contact person)
Bureau of Energy Efficiency
Government of India, Ministry of Power
4th Floor, Sewa Bhawan
R.K. Puram, Sector 4, New Delhi – 110066
Telephone:
E-mail: asengupta@beenet.in

Copy of e-mails to: Meera Shekar
E-mail: shekar.meera@gov.in

Ireland

Ms. Josephine Maguire*
National Coordinator Better Energy
Sustainable Energy Ireland
Wilton Park House
Wilton Terrace
Dublin 2
Telephone: (353) (0) 1808 2088
E-mail: Josephine.maguire@seai.ie

Mr. Jim Scheer
National Coordinator Better Energy
Sustainable Energy Ireland
Wilton Park House
Wilton Terrace
Dublin 2
Telephone: (353) (0) 1808 2093
E-mail: jim.scheer@seai.ie

ITALY

Mr. Walter Bruno Grattieri (retired end of December 2016)
Ricerca sul Sistema Energetico - RSE S.p.A
Power System Development Department
Via Rubattino, 54, 20134 Milano
Telephone: (39) 02 3992 5714
Telefax: (39) 02 3992 5597
E-mail: Walter.Grattieri@rse-web.it

Mr. Simone Maggiore* (newly appointed 14 November 2016)
Ricerca sul Sistema Energetico – RSE S.p.A
Energy Systems Development Department
Via Rubattino 54
20134 Milano
Telephone: (39) 02 3992 5238
Telefax: (39) 02 3992 5597
E-mail: simone.maggiore@rse-web.it

Mr. Marco Borgarello
Ricerca sul Sistema Energetico - RSE S.p.A
Power System Development Department
Via Rubattino, 54, 20134 Milano
Telephone:
Telefax:
E-mail: Marco.Borgarello@rse-web.it

CONTACT FROM JAPAN

Mr. Tetsuya Maekawa
Head, Energy Solution Centre
Tokyo Electric Power Company
1-1-3, Uchisaiwai-cho, Chiyoda-ku
Tokyo 100-8560 Japan
Telephone:
E-mail: maekawatet@hotmail.com

REPUBLIC OF KOREA

Mr. Sun Moon Jung
Korea Energy Agency (KEA)
Policy Team Manager
Korea Energy Agency
388 Poeun-Daero. Suji-Gu,
Yongin-Si,
Gyeonggi-Do, 16842
Telephone: (82) 31 260 4181
Mobile: (82) 10 4220 3447
Telefax: (82) 31 260 4189
E-mail: jsmoony@energy.or.kr

Ms. Su-Hyeon Jung*
Korea Energy Agency (KEA)
388 Poeun-Daero. Suji-Gu,
Yongin-Si,
Gyeonggi-Do 16842
Telephone: (82) 31 260 4184
Telefax: (82) 31 260 4189
Mobile: (82) 10 4741 1310
E-mail: suhyeonco@energy.or.kr
mailger89@gmail.com

NETHERLANDS

Mr. Rob Kool*
Netherlands Enterprise Agency
Croeselaan 15
P.O. Box 8242
3521 BJ Utrecht
The Netherlands
Telephone: (31) 886 022 503
Telefax: (31) 886 029 025
Mobile: (31) 646 424 071
E-mail: rob.kool@rvo.nl

Mr. Harry Vreuls*
Netherlands Enterprise Agency
Department of International Innovation
Box 965
Slachthuisstraat 71
6140 CB Roermond
Telephone: (31) 886 022 258
Telefax: (31) 886 029 021
Mobile: (31) 630 608 163
E-mail: harry.vreuls@rvo.nl

NEW ZEALAND

Mr. Simon Arnold (from November 2015)
Chief Executive
National Energy Research
Institute (NERI)
Level 8, 44 The Terrace
Wellington 6140
Telephone: (64) 6 364 3155
Mobile (64) 27 248 1753
E-mail: simon@neri.org.nz

Dr. Sea Rotmann*
SEA-Sustainable Energy Advice
43 Moa Point Road
6022 Wellington
Telephone: (64) 4380 7374
Mobile: (64) 212 469 438
E-mail: drsea@orcon.net.nz
Twitter: @DrSeaRotmann
Facebook: DrSea Rotmann
LinkedIn: Dr Sea Rotmann

NORWAY

Mr. Andreas K. Enge*
ENOVA SF
Abelsgate 5
N-7030 Trondheim
Telephone: (47) 73 190430
Mobile: (47) 99 790 785
Telefax: (47) 73 19 04 31
E-mail: andreas.k.enge@enova.no

Mr. Even Bjørnstad
Enova SF
Abelsgate 5
N-7030 Trondheim
Telephone: (47) 73 19 04 75
Mobile: (47) 99 638218
Telefax: (47) 73 19 04 31
E-mail: even.bjornstad@enova.no

Nova Scotia (Canada)

Ms Sarah Mitchell
Energy Efficiency Nova Scotia – Efficiency One
230 Brownlow Avenue, Suite 300
Dartmouth, NS B3B 0G5
Nova Scotia, Canada
Telephone: (902) 470 3584
Telefax: (902) 470 3599
E-mail: SMitchell@efficiencyns.ca

Mr. Chuck Faulkner
Energy Efficiency Nova Scotia – Efficiency One
230 Brownlow Avenue, Suite 300
Dartmouth, NS B3B 0G5
Nova Scotia, Canada
Telephone: (902)
Telefax: (902)
E-mail: cfaulkner@efficiencyone.se

SPAIN

Ms. Susana Bañares
RED Eléctrica de España
Plaza del Conde de los Gaitanes, 177
La Moraleja 28109 Alcobendas, Madrid
Telephone: (34) 91 659 99 35
Telefax: (34) 91 650 4542
E-mail: sbanares@ree.es

SWEDEN

Dr. Maria Alm*
Swedish Energy Agency
Box 310
S-631 04 Eskilstuna
Telephone: (46) 16 544 2000
Telefax: (46) 16 544 2099
E-mail: maria.alm@energimyndigheten.se

Ms. Svetlana Gross
Swedish Energy Agency
Box 310
S-631 04 Eskilstuna
Telephone: (46) 16 544 2000
Telefax: (46) 16 544 2099
E-mail: svetlana.gross@energimyndigheten.se

SWITZERLAND

Mr. Markus Bareit*
Departement für Umwelt, Verkehr,
Energie und Kommunikation
Swiss Federal Office of Energy
Mühlestrasse 4, 3003 Bern
Telephone:
Telefax:
E-mail: markus.bareit@bfe.admin.ch
www.bfe.admin.ch

Mr. Klaus Riva
Swiss Federal Office of Energy
3003 Bern
Telephone: (41) 31 322 5706
E-mail: Klaus.riva@bfe.admin.ch

UNITED KINGDOM

Mr. Tom Bastin (till 28 March 2016)
Energy Strategy & International Unit
Department of Energy and Climate
Change
3 Whitehall Place
London SW1A ZHH
Telephone: (44) 300 0685 463
E-mail: tom.bastin@decc.gsi.gov.uk

Mr. Peter Warren* (from 29 March 2016)
Senior Scientific officer
Department for Business, Energy & Strategy
3 Whitehall Place
London SW1A 2AW
Telephone: (44) 300 068 6984
Email: peter.warren@beis.gov.uk

UNITED STATES

Mr. Larry Mansueti
Director, State and Regional Assistance
Office of Electricity Delivery
and Energy Reliability
U.S. Department of Energy
1000 Independence Ave. SW,
Washington D.C. 20585
Telephone: (1) 202 586 2588
Telefax: (1) 202 586 5860
E-mail: lawrence.mansueti@hq.doe.gov

SPONSORS

Regulatory Assistance Project (RAP)
Mr. Richard Cowart
Regulatory Assistance
Project (RAP)
Rue de la Science 23
1050 Brussels, Belgium
Telephone: (1) 802 272 8550
Mobile: (32) 2 789 3010
E-mail: rcowart@raponline.org

Mr. Frederick Weston
Regulatory Assistance
Project (RAP)
The Energy Foundation – Beijing Office
CITIC Building Room 2504
No 19 Jianguomenwai Dajie
1000004 China
Cina Mobiel: +136 9332 6094
E-mail: rweston@raponline.org

European Copper Institute

Mr. Hans De Keulenaer*
European Copper Institute
Avenue de Tervueren 168 B10
1150 Brussels, Belgium
Telephone: (32) 2 777 7084
Telefax: (32) 2 777 7079
E-mail: hans.dekeulenaer@copperalliance.eu
www.eurocopper.org

Mr. Philip Zhang
International Copper
Association
Beijing Office
Room 2605-2608 Tower A Bldng 1
Tianzou International Center
No.12 Zhongguancun South Ave
Haidian District, Beijing, 100081
Telephone: (86) 10 6804 2450 203
Telefax: (86) 10 6802 0990
Mobile: (86) 139 1008 2556
E-mail: philip.zhang@copperalliance.asia
www.copperalliance.asia

ADVISOR TO EXCO

Mr. Hans Nilsson*
Grubbensringen 11
112 69 Stockholm
Sweden
Telephone: (46) 8 650 6733
E-mail: nosslinh@telia.com

CHAIRMAN and EXECUTIVE COMMITTEE SECRETARY

Ms. Anne Bengtson*
Liljeholmstorget 18-4tr, 117 61 Stockholm
Sweden
Telephone: (46) 70 7818501
E-mail: anne.bengtson@telia.com

SPOTLIGHT/NEWSLETTER EDITOR

Ms. Pamela Murphy*
KM Group
9131 S.Lake Shore Dr.
Cedar, MI 49621
United States
Telephone: (1) 231 228 7016
Telefax: (1) 231 228 7016
E-mail: pmurphy@kmgrp.net

IEA SECRETARIAT

Tyler Bryant*
9 rue de la Fédération
75739 Paris Cedex 15
Telephone: (33) 1 40 57 6729
Telefax: (33) 1 40 57 6759
E-mail: tyler.bryant@iea.org

WEB MAINTENANCE

Mr. Karl Weber
Weber Web Ltd (WeberWeb)
43 Moa Point Road
Moa Point
6022 Wellington
New Zealand
Mobile: (64) 22 693 5134 or (61) 417 396 352
E-mail: karl.weber@gmail.com

OTHER ATTENDEES

Mr. Diego Garcia Carvajal*
Director
Instituto Europeo del Cobre
Dr. Fleming. 51
28036 Madrid
Spain
Telephone: (34) 915 448 451
Mobile: (34) 644 599 286
E-mail: diego.carvajal@copperalliance.es

THAILAND

Mr. Jirasak Mantharngkul
Director
Electricity Generating Authority of Thailand
Demand Side Management and Planning Division
53 Moo 2 Charansanitwong Rd.
Bang Kruai Nonthaburi
1130 Thailand
Telephone: (66) 2436 8100
Telefax: (66) 2436 8190
Mobile: (66) 8 9881 5190
E-mail: jirasak.m@egat.co.th

DSM Implementing Agreement on Demand Side Management Technologies and Programmes – Operating Agents

* Participated at the Executive Committee meeting 11 – 12 October 2016, Brussels, Belgium

Task 16 – Energy Performance Contracting - Competitive Energy Services - Operating Agent

Mr. Jan W. Bleyl-Androschin*
Graz Energy Agency
Kaiserfeldgasse 13/1
A-8010 Graz, Austria
Telephone: (43) 316 811848 -20
Telefax: (43) 316 811848 – 9
Mobile: (43) 650 799 2820
E-mail: energeticsolutions@e-mail.de

Task 17 – Integration of Demand Side Management, Distributed Generation, Renewable Energy Sources and Energy Storages - Operating Agent

Mr. Matthias Stifter*
AIT Austrian Institute of
Technology GmbH
Energy Department
Complex Energy Systems
Giefinggasse 2,
1210 Vienna, Austria
Telephone: (43) 50550-6673
Telefax: (43) 50550-6613
Mobile: (43) 664 8157944
E-mail: matthias.stifter@ait.ac.at
www.ait.ac.at

Mr. René Kamphuis*
TNO, Netherlands Organization for
Applied Scientific Research/Energy
Efficiency and ICT Program
PO Box 1416, 9701 BK Groningen
The Netherlands
Telephone: (31) 621134424
E-mail: rene.kamphuis@tno.nl
www.tno.nl

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

Dr. Sea Rotmann*
43 Moa Point Road
6022 Wellington
New Zealand
Telephone: (64) 4 380 7374
Mobile: (64) 212 469 438
E-mail: drsea@orcon.net.nz
Twitter: @DrSeaRotmann
Facebook: DrSea Rotmann
LinkedIn: Dr Sea Rotmann



Project partner

Dr. Ruth Mourik*
Eschweilerhof 57
5625 NN Eindhoven
The Netherlands
Telephone: (31) 40 2425683
Mobile: (31) 6 25075760
E-mail: info@duneworks.nl

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

Dr. Ruth Mourik*
Eschweilerhof 57
5625 NN Eindhoven
The Netherlands
Telephone: (31) 40 2425683
Mobile: (31) 6 25075760
E-mail: info@duneworks.nl

11. ATTACHMENT B

Agenda

**IEA Demand-Side Management Energy Technology Initiative
Forty Eighth Executive Committee Meeting**
11-12 October, 2016, Brussels, Belgium

Monday 10 October

18:00 – 20:00 Operating Agents Meeting – venue TBD
Visibility Committee Meeting – venue TBD

Tuesday 11 October Executive Committee meeting
9:00 – 17:00 Renaissance Brussels Hotel
Rue du Parnasse 19
1050 Brussels, Belgium

Wednesday 12 October Venue:
8:30 – 16:00 Renaissance Brussels Hotel
Rue du Parnasse 19
1050 Brussels, Belgium

Thursday 13 October DSM DAY
09.00 – 17.00 Renaissance Brussels Hotel
Rue du Parnasse 19
1050 Brussels, Belgium

09:00 – 10:00

1. GENERAL BUSINESS/WELCOME

- 1a. Welcome – *Rob Kool*
- 1b. **ExCo approval** of the Agenda DOC A
- 1c. **ExCo approval** of the Forty Seventh ExCo meeting Minutes – Stockholm, Sweden Distributed earlier
- 1d. Status of the Implementing Agreement
- 1e. IEA Relations DOC B
 - Secretariat news
 - 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
 - Task 26 on Multiple Benefits for Energy Efficiency
 - Presented by Chairman Rob Kool

10:00 – 10:30

Coffee break

10:30 – 12:30

2. SPECIAL SESSION

- 2a. Discussion on how to develop and implement our strategy further
- *Rob Kool/Hans Nilsson/Maria Alm*

12:30 – 13:30

Lunch

3. CURRENT TASKS – LOAD LEVEL CLUSTER

13:30 – 14:00

- 3a. Task 16 – Phase 4 – Innovative Energy Services DOC G
 - Task Status Report
 - *Jan W. Bleyl, EnergeticSolutions, Austria*

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 H

3. NEW WORK

14.30 – 15.00 3a. Update: Power Systems Flexibility as the pillar towards higher vRES shares
– *Diego García Carvajal, European Copper Institute* DOC C

15:00 – 15:30

Coffee Break

15:30 – 16:00 3b. Discussion on Data Analytics for Energy Efficiency
– *Stefan Galsworthy, Quby, The Netherlands* DOC D

16:00 – 16:30 3c. Smart Energy Services – Joint ISGAN/DSM project
René Kamphuis, TNO, Austria DOC I

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)

4. CURRENT TASKS – LOAD SHAPE CLUSTER

16:30 – 17:00 4a. Task 17 – Integration of DSM with other Distributed Energy Resources – Phase 3
– *Réne Kamphuis* DOC E

17:00 – 17:30 4b. 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 F

17:30 Adjourn

Wednesday 12 October

09:00 – 10:00

5. PROGRAMME VISIBILITY

5a. Programme Visibility Report Sea Rotmann
– Sea Rotmann

DOC J

10:00 – 10:30

5b. Development of the DSM University
– Hans Nilsson

DOC K

5c. How to build more faculties within
DSMU/Leonardo Energy
– Rob Kool, Hans Nilsson

10:30 – 11:00

Coffee break

11:00 – 12:30

6. ADMINISTRATIVE MATTERS

6a. Task Zero, status report

6b. Financial Report 2016 – *Andreas K. Enge*

PMD
Part 2

Accountax Status Report
Status of Common Fund payments

6c. Decision on plans for the Forty Ninth ExCo meeting
April 2017

6d. Plans for the Fiftieth ExCo meeting October 2017

12:30 – 13:30

Lunch

Meeting Adjourned

19:00 Hosted Dinner

Thursday 13 October

DSM DAY: The Role of DSM to Provide Flexibility in Electricity Systems

The share of intermittent renewables in the electricity system is rapidly growing all over the globe. In the EU they will represent 35% of electricity production by 2020 and are expected to reach 50% by 2030. But already today, at peak moments renewables make up for over 50% of production. **This is a challenge for network operators, policy makers and regulators, but will also create business opportunities for old and new players.**

An interactive workshop will cover the following aspects:

- What are the sources of flexibility in electricity systems and how/when should these be deployed?
- What synergies and what trade-offs between energy efficiency and flexibility?
- How should system operation change on the road towards 100% renewables?
- How can the new market design facilitate business models that enhance flexibility?

Date & time: 13 Oct 2016 @ 09:30-16:30 CET (lunch included)

Venue: Renaissance Brussels Hotel, [Rue du Parnasse 19, 1050 Brussels](#)

Agenda and more information: [j.mp/IEADSM2016](#)

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

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 Stifter & René Kamphuis	Sea Rootmann & Ruth Mourik	Ruth Mourik	Hans Nilsson, Hans de Keulenaer	Jan W. Bleyl-Androschin		

X = participant

☺ = interested

* = Sponsors

◀ = in-kind



14. ATTACHMENT E

Strategy discussion

15. ATTACHMENT F

Group 1 feedback



What do we want the DSM Task be/do for participants?

- Decide on and tell our DSM story in a selling way (need time to discuss what our story is). One slide.
- Contribute to the transition to a sustainable energy system and the global goals.
- Transdisciplinary approaches and co-learning = practical and policy relevant (EE and RE directive and market design directive under review)
- Applied research and experimental development/innovation
- Eco-system based research – one level higher and combining tasks (cross-cutting)

and...

- How to prove that the international collaboration has a value. Need specific section in each Task proposal that addresses this point and shows value-add.
- Need to show the broader picture better. Multi-stakeholder and sector involvement is crucial, especially dealing with conflicting mandates and technologies.
- Using social networks more and get more people/countries/actors/organisations joining
- Our Programme needs to be more dynamic.



The setting of new Tasks - roles

- ExCos need to discuss what they like to see in the tasks and be more active on and in between meetings.
- Time for dialogue between the meetings. Experiences from Concerted Action. A platform for dialogue.
- We need to know about the priorities of the countries. ExCos prepare and present a country scanning and we need to be updated on what is going on globally as well.
- It should be the ExCo-members that comes up with the ideas, and discuss who from the willing/interested participating countries (and money spent).
- Look at systemic and societal issues and provide thoughts on transitions and top runners for 2020-25?
- Experts role depends on how they are funded.
- Stakeholders need to be included in the tasks.

Some ideas on new funding models

- Entrepreneurial OA with baseline funding
- Apply for funding in Horizon 2020 May need seed funding for writing proposals (take usually around 3 months).
- Task sharing with institutional partners:
- A common research 'bucket' /fond were ExCo collectively decides how it is spent.
- Common calls among interested participants in DSM
- Address the free-rider problems



Work on capacity building as the global arena for DSM

- Global dissemination under the IEA DSM brand
- Need to grow our brand (ExCo members telling stories better)
- IEA Secretariat needs to tell our story better
- Task 0/DSMU and capacity building but not run projects
- Collaborate with relevant TCPs
- Work/include experts from other institutions, including IPEEC, EU Commission, ERA-net, need partners outside Europe...
- Share our international expert networks
- Can we waive fee for developing countries?
- How can we include them to create DSM TCP value-add?

Action plan

- we need to prioritise and turn some of these ideas into an Action Plan!
- Make formal decision at next ExCo on this Plan
- ExCo slide kit for different audiences/lengths
- Copper Alliance can help with LT work programme for DSM



DSM activities besides Tasks that create value for the participants

- ExCo meetings- organization and disposition
- Collaboration with other actors & organisations
- Capacity building/dissemination

- **What do we do that we want to continue doing?**
- **What do we want to start doing?**
- **What do we need to stop doing?**



Group 1 feedback

ExCo discussion on way forward



What do the countries want from the DSM

- NL: DSM is just a word, not a concrete action. What are the related topics that give added value if you do it internationally? How can you get the projects and deliver them within a timeline for a country (e.g. within a year)? Can't take 2 years to start up the work, too long.
 - IT: Interest in DSM, but gap between what we do and what politicians want – they want something practical they can use, toolkits and practical guidelines. How can we exploit user engagement?
 - BE: Brainstorming of what they expect from DSM, internal processes. Resources are tight and scattered, not efficient use of power and €. Design process and time to deliver is an important issue, politically. Needs to be quick and practical so it can be used for implementation. Need to connect the DSM experts into their questions as they are needed. Leading in eg industrial DR yet struggling to partake in DSM Tasks.
 - NZ: Like Task 24 model of ST11 (Voluntary, less €, quick turn-over, very specific, practical issue, can be co-funded by non-ExCo members. Easier to find funding.
- ➔ Proof of concept, demonstrate value of international collaboration

New ways of doing Tasks

- How to prove that the international collaboration trumps just country research. Need specific section in each Task proposal that addresses this point and shows value-add.
- Need to really show the broader picture better, tell our story better. Multi-stakeholder and sector involvement is crucial, especially dealing with conflicting mandates and technologies.
- Look at systemic and societal issues and provide thoughts on transitions and top runners for 2020-25?
 - ➔ More information needed on how to reduce fossil fuels/energy efficiency/conservation/DSM and not renewable integration
 - ➔ Profile organisations/sectors/countries, rankings and ratings?
- Our Programme needs to be/have more dynamic.

Roles and Responsibilities

- ExCo: Exco members need to be much more outgoing in disseminating DSM, e.g. 1 slide on each presentation they give, mention they are members, make the DSM brand bigger.
- How can we tell the DSM story in one slide/1 minute so people want to come up and hear more?
- Operating Agents/NEs: Should they run mostly everything or should the money go to National Experts instead? Problem is, that someone needs to coordinate and facilitate and they need more than 150h a year to run a Task successfully.
- It should be ExCo that comes up with the idea, who from the willing/interested participating countries has an expert that can best produce the results? Should also come up with idea how much money should be spent.
- Should it only be a short summary the OA writes, with the rest of the work done by NEs? It depends on the kind of Task we are running, may need different models.

New funding models

- Entrepreneurial OA with baseline funding: E.g. Task 24 ST11, Phase III
- Task sharing with institutional partners: align work programmes of various institutional partners towards a common goal, where OA gives common umbrella, DSM pays OA (but maybe less if in-kind NE support is enough)
- DSM 5-year programme/Task 0/DSMU: a lot of projects that need to be done, to inspire other organisations, rather than doing it all ourselves. Do ground work but not run projects.
- Common fund plus additional minimum money for starting new Task each year, or extension of Tasks with good profile and additional work

How much do you care about our planet? Dr Sea cares a lot and needs your help.

Closed Cause page created in the Environment category by Dr Sea Rotmann

Wellington

[OVERVIEW](#)
[UPDATES 4](#)
[DONATIONS 50](#)
[FUNDRAISERS](#)
[GALLERY](#)
[Q&A](#)


Dr Sea wants to change the world. She is 1 of 3 Kiwi women on an Antarctic leadership expedition that will give her the tools that she needs

\$5,748.00 donated

44 generous donors



Climate Leadership Awareness

WHAT IS HOMEWARD BOUND?

Stop The Proposed Wellington Airport Runway Extension

Cause page created in the Environment category by Guardians of the Bays

Wellington

[OVERVIEW](#)
[UPDATES 2](#)
[DONATIONS 48](#)
[FUNDRAISERS](#)
[GALLERY](#)
[Q&A](#)


Help us stop the short-sighted, expensive and environmentally disastrous proposed extension of Wellington Airport's runway into Cook Strait.

\$3,075.00 donated

43 generous donors

\$3,075 donated

Open goal

DONATE NOW

ADD TO PLAN

This cause page was created on 03 Mar 2016 and closes at 00:00 NZST (UTC +12:00) on 31 Dec 2017.

Donor Confidence Key

- Givealittle moderated
- Donor validated
- New Zealand registered charity
- Eligible for tax credit



Crowdfunding?

INDIEGOGO

Explore

How it works

START A CAMPAIGN

Sign Up

Log In



Closed

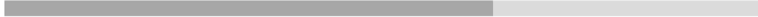
The Giant Weta at Burning Man 2016 & Kiwiburn 2017

A giant flame shooting insect which will travel the globe from New Zealand to USA and back!



Hippathy Valentine
Auckland, New Zealand
[About](#)

\$7,757 USD raised by 79 backers



65% of \$12,000 flexible goal



For more information, visit www.ieadsm.org





The pros and cons crowdfunding

Pros

- It is a way of eliciting small amounts of money from a large amount of people
- You do not have to give away equity in your business or intellectual property rights
- You can take advantage of your backer's social media clout to help spread the word
- Major platforms have a backer community, meaning that if people like your project, you have the chance to receive pledges from strangers
- You can get feedback early-on in the innovation process and backers and pledges can be used a validation of your target market.

Cons

- You must invest a lot of time and money in creating an attractive project page, brainstorm rewards, and make a compelling video.
- You must be really social media savvy and engage a LOT of people – 100s if not 1000s to get a small reward.
- You must pay taxes on any pledges and donations.
- You must spend time marketing your project, reaching out to reporters, update your backers...
- You risk major embarrassment if you fail.
- It's mostly for creative endeavours, technology innovation and/or social issues.
- In research, it's largely for early-career scientists or for citizen science.

➔ But we already have our own crowd to fund from!



How could we achieve all this when money is so tight? One option: 1) Entrepreneurial OA with baseline funding

- Change our funding model, at least for some Tasks (e.g. Task 24)
- Crowdfunding? Yes – but we have to understand who ‘our crowd’ is...
- We have 17 members in the DSM, most of whom have not backed any Tasks in quite some time...
- They all pay into the common fund, and we may need to review how some of the money in the common fund could be spent to support more research
- For example, if each member would pay €2,000 pa toward a Task, that would provide enough baseline support for an OA to run the administrative side of Task work (travel, website and media development, publications, workshops)
- Then some Tasks at least could reach out to non-state actors (e.g. businesses, large institutions, utilities, the third sector, local government...) to get money (as consultants, as most OAs run consultancies already in DSM) for individual case studies which would further our collective knowledge

For more information, visit www.ieadsm.org

Another option – 2) common research funding

- Money problem now is just at the start of a project, i.e. to find the money to fund a Task
- Could we thus move it more towards task-sharing, getting sponsors to put money into it...
- Or a common research 'bucket' from which the ExCo collectively decides how it is spent – e.g. on a new Task each year, on baseline funding for extensions that have networks they can draw on for additional funding
- Also need more involvement in funding from the ExCo during Tasks
- Could we have different amounts given to different Tasks depending on how countries' priorities are (as they will be different)?
- With the research fund, we'd still have the current model of starting up Tasks but it would lead to more Tasks starting up faster
- In principle, we have equal shares but countries can put more money into 'their' Tasks (e.g. where they stand OAs), thus lowering the costs for other countries
- Shorter Tasks that provide direct outputs faster? Less work with academics in them more with non-state actors. Don't make OAs provide 6-month update.
- Still do longer Tasks, with extensions as some complex issues need in-depth work and brand and name recognition is important value to DSM

For more information, visit www.ieadsm.org



Another option – 3) be the reference org for global DSM

- What is in it for them? Global dissemination under the IEA DSM brand
- Need to grow our brand more first
- E.g. ExCo members telling stories better
- IEA Secretariat needs to tell our story better
- We need to collaborate with relevant TCPs better
- We need to work/include experts from other institutions, including IPEEC, EU Commission, ERA-net, need partners outside Europe...
- Need to share our international expert networks better
- Can we waive fee for developing countries? How can we include them to create DSM TCP value-add?

For more information, visit www.ieadsm.org



4) Can we have a project where focus is on BRICST or developing countries?

- Countries have to find other ways to finance this
- For example, through development funds (e.g. NZ and South Pacific Islands)
- Talk to development agencies on how we could collaborate on this

5) *More pro-active on policy and market development?*

- More advocacy
- Less partisan, more science-based advocacy
- EE and RE Directive, market design directive under review right now



6) H2020 and ERA-net funding?

- May need seed funding for writing proposals (take usually around 3 months)
- Put in for specific calls for big, basic-research complex issues

→ we need to turn all these ideas into an Action Plan and prioritise them!

→ Make formal decision at next ExCo on this Plan

→ There is urgency if we want to show that we are the go-to global DSM place

→ ExCo slide kit for different audiences/lengths

→ Copper Alliance can help with LT work programme for DSM