

Phase IV: Innovative Energy Services

Energy Efficiency and Demand Response Services

Energy Services: 'Delivery Mechanism' for Energy Policy Targets and Market Development

The success of further increasing energy efficiency will play a vital role in coping with the challenges of our common energy future. Avoiding energy consumption by increasing end-use efficiency is a highly effective means to meet all three key targets of energy policies: security of supply, affordable costs of energy (services) and environmental soundness.

Performance-based energy services (ES), also referred to as Energy-Contracting or ESCo service, is a well proven 'deliver mechanism' for implementing energy efficiency measures such as lighting, HVAC or building refurbishment. An ESCo takes over the technical and economical implementation risks and provides performance guarantees for the results. ES are also well suited to implement renewable energy systems with guaranteed outputs.

Task Objectives (Phase IV)

To further contribute to the know how and market development of ES, Task 16 is working to:

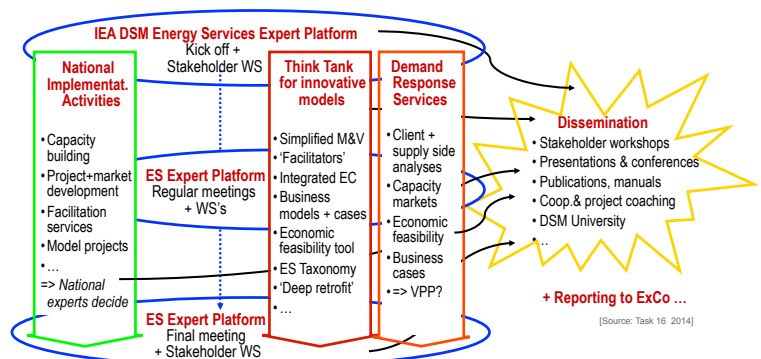
1. Sustain the well established IEA DSM Energy Services Expert Platform for exchange and mutual support of experts, partners and invited guests.
2. Support and follow up on country specific National Implementation Activities (NIAs) in order to foster ESCo project and market development.
3. Design, elaborate and test innovative energy and demand response services and financing models and publish them (as part of the Think Tank).
4. Use the Task's Energy Service Expert Platform as a competence centre for international and national dissemination and assistance services (e.g., coaching, training).
5. Contribute to the IEA DSM University.

Subtasks

The current work is structured in the following Subtasks:

- Subtask 19: ES Expert Platform
- Subtask 20: ES Think Tank
- Subtask 21: National Implementation Activities (NIAs)
- Subtask 22: Demand Response Services
- Subtask 23: National and International Dissemination, DSM University

Task 16 experts have been working since July 2006 and are now preparing a three-year extension from July 2015 to June 2018 (Phase IV).



Task structure and subtasks.

Phase IV Work

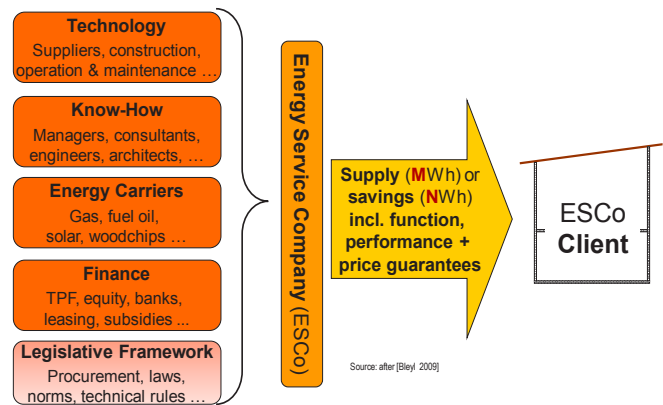
Task work will include deep retrofit of buildings (economic feasibility, investment grade calculation and financing, business models including non-energy benefits); demand response services and VPP (market analyses, economic feasibility), ES taxonomy journal paper and continued contributions to the DSM University.

The detailed work program of Task 16 will be adapted to suit the needs of the participating countries. Specific NIAs are defined according to the individual country and market situations. Ongoing activities can be integrated into the NIA's.

Expected Results

Participating countries will benefit from:

- Exchanging experiences and feedback and coaching for country specific market development activities (NIAs).
- Gaining know-how and building capacity on innovative energy services and financing models from the Think Tank.
- Demanding the OA to prepare selected Energy-Contracting issues of interest.
- Participating in the IEA DSM Energy Services Expert Platform and communication with external stakeholders.
- Playing an active role in the national and international dissemination of innovative ES and offer assistance services for market development in other countries.
- Contributing to the IEA DSM University.



Components of service packages and outsourcing of interfaces and performance guarantees to an ESCO.

Task Duration

July 2012 – June 2015

July 2015 - June 2018 (Phase IV)

Participating Countries (Phases I-III)

Austria - GEA, Energetic Solutions, e7
Belgium - Fedesco, Energinvest, Factor4
Finland - Motiva
India - BEE
Japan - JFS/Tepco
South Korea - KEMCO, Jeonju University
Netherlands - Essent, Escoplan
Spain - Red Eléctrica de España, Hitachi Consulting
Sweden - Swedish Energy Agency
Switzerland - Swiss Federal Office of Energy

Task Publications

All official publications can be found on www.leadsm.org

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