
INTERNATIONAL ENERGY AGENCY
IMPLEMENTING AGREEMENT ON TECHNOLOGIES
AND PROGRAMMES FOR DEMAND SIDE MANAGEMENT

Task XV: Network-Driven DSM

Task Status Report

Dr David J Crossley
Operating Agent
Energy Futures Australia Pty Ltd

Prepared for
IEA DSM PROGRAMME

16 March 2007

Energy Futures Australia Pty Ltd
11 Binya Close
Hornsby Heights NSW 2077
Australia
Phone: + 61 2 9477 7885
Mobile: + 61 411 467 982
Fax: + 61 2 9477 7503
Email: efa@efa.com.au
Website: <http://www.efa.com.au>

CONTENTS

1.	INTRODUCTION.....	2
2.	SUMMARY OF TASK XV OBJECTIVES AND SUBTASKS	2
2.1	Objectives.....	2
2.2	Subtasks.....	2
3.	MAJOR ACCOMPLISHMENTS SINCE APRIL 2006.....	3
4.	WORK PLAN FOR THE PERIOD SUBSEQUENT TO APRIL 2007.....	4
5.	EXPERTS MEETINGS	4
6.	FINANCIAL REPORT	4
6.1	Receipts	4
6.2	Expenditure	4
7.	ISSUES TO BE CONSIDERED BY THE EXECUTIVE COMMITTEE	5

1. INTRODUCTION

At its meeting in April 2004, the IEA DSM Executive Committee approved the initiation of Task XV: “Network-Driven DSM” and nominated David Crossley as the Operating Agent. At its meeting in October 2004, the IEA DSM Executive Committee declared Task XV to be ‘in force’ from 18 October 2004 and to be completed by 30 April 2006. At this meeting, the Executive Committee also approved a modification of the Objectives and Work Plan for Task XV to include the use of DSM measures to provide both relief of electricity network constraints and network operational services. At its meeting in October 2005, the Executive Committee approved a six month no-cost extension of Task XV; under this decision, Task XV was to be completed by 30 September 2006. At its meeting in April 2006, the Executive Committee approved a further no-cost extension to no later than 30 March 2007.

2. SUMMARY OF TASK OBJECTIVES AND SUBTASKS

2.1 Objectives

The objectives of Task XV, as approved at the October 2004 Executive Committee meeting, are as follows:

- to identify a wide range of DSM measures which can be used to relieve electricity network constraints and/or provide network operational services;
- to further develop the identified network-driven DSM measures so that they will be successful in cost-effectively achieving network-related objectives;
- to investigate how existing network planning processes can be modified to incorporate the development and operation of DSM measures over the medium and long term;
- to develop ‘best practice’ principles, procedures and methodologies for the evaluation and acquisition of network-driven DSM resources;
- to communicate and disseminate information about network-driven DSM to relevant audiences.

2.2 Subtasks

The Work Plan for the Network-Driven DSM Task comprises five Subtasks.

Subtask 1: Worldwide Survey of Network-Driven DSM Projects

Subtask Objective

To identify a wide range of DSM measures which can be used to relieve electricity network constraints and/or provide network operational services.

Subtask Deliverable

A report listing and summarising network-driven DSM projects implemented around the world.

Subtask 2: Assessment and Development of Network-Driven DSM Measures

Subtask Objective

To further develop the identified network-driven DSM measures so that they will be successful in cost effectively achieving network-related objectives.

Subtask Deliverable

A report listing and summarising successful network-driven DSM measures and the specific network problems they address.

Subtask 3: Incorporation of DSM Measures into Network Planning

Subtask Objective

To investigate how existing network planning processes can be modified to incorporate the development and operation of DSM measures over the medium and long term.

Subtask Deliverable

A report on ways in which network planning processes can be modified to incorporate DSM measures as alternatives to network augmentation.

Subtask 4: Evaluation and Acquisition of Network-Driven DSM Resources

Subtask Objective

To develop 'best practice' principles, procedures and methodologies for the evaluation and acquisition of network-driven DSM resources.

Subtask Deliverable

A report on 'best practice' principles, procedures and methodologies for the evaluation and acquisition of network-driven DSM resources.

Subtask 5: Communication of Information About Network-Driven DSM

Subtask Objective

To communicate and disseminate information about network-driven DSM to relevant audiences, including representatives of electricity network businesses, government agencies and electricity end-users.

Subtask Deliverables

- An internal Task Newsletter.
- An on-line database about network-driven DSM projects and measures.

3. MAJOR ACCOMPLISHMENTS SINCE OCTOBER 2006

Following are the major accomplishments in Task XV over the last six months. The work during this period has concentrated on completing Subtask 3: Incorporation of DSM Measures into Network Planning and Subtask 4 Evaluation and Acquisition of Network-Driven DSM Resource.

- Completion of the Subtask 3 report. At the time of writing, the final version of report has been circulated to country Experts and representatives for their approval. The report will then be submitted to the relevant Executive Committee members for balloting at the ExCo meeting in April.

- Commencement and completion of the Subtask 4 report. At the time of writing, this relatively short report is currently being written and it is expected that the report will be completed in time to enable balloting at the ExCo meeting in April.

4. WORK PLAN FOR THE PERIOD SUBSEQUENT TO APRIL 2007

The original Work Plan for Task XV will be completed by the time of the ExCo meeting in April 2007. However, it is possible that further activity in the Task will continue after the ExCo meeting.

India has recently joined the IEADSM programme as a new member and Indian representatives have indicated that they want to participate in Task XV. It is possible that there will also be other new IEADSM members who are interested in participating in Task XV.

The Task XV Operating Agent has prepared a separate document proposing an extension of Task XV that will:

- enable India and any other new members to access and contribute to the already completed work in Task XV; and
- carry out an additional new Subtask on direct load control and smart metering for electricity networks.

It is proposed that the work on the new Subtask will be funded entirely by financial contributions from India and any other new participants. The four countries currently participating in Task XV will be able access and contribute to this new work free of charge.

5. EXPERTS MEETINGS

All four Experts meetings planned under the original work plan Task XV have now been held and no further Experts meetings are planned. However, if the proposed extension to Task XV is approved, one Experts meetings will be held in connection with this new work.

6. FINANCIAL REPORT

6.1 Receipts

All budgeted financial contributions to Task XV have been received from the four participating countries.

6.2 Expenditure

Table 1 (page 5) details the expenditure incurred in Task XV from the commencement of the Task to 16 March 2007. It is expected that the amount of EUR 28,470 remaining in the budget will be fully expended by the time the original work plan for Task XV is completed.

Labour is charged in euros and converted to Australian dollars at the exchange rate applicable on the date of invoice payment. Other expenses are charged in the original currency in which the expense was incurred and converted to Australian dollars at the exchange rate applicable on the date of invoice payment.

To produce this statement, the Australian dollar amounts were converted back to euros at the exchange rates applicable on 16 March 2007. Consequently there are some minor discrepancies compared with the original currency amounts. These discrepancies are caused by movements in exchange rates since the invoices were paid.

Table 1. Task XV Expenditure		
Expense Item	AUD	EUR
Labour	303,441.42	180,798.91
Travel	31,556.82	18,804.56
Postage	85.56	50.99
Stationery	92.41	55.07
Bank charges	35.15	20.95
Total	335,211.36	199,730.48

The expenditure to date of EUR 199,730.48 is **88%** of the EUR 228,200 budget for Task XV.

7. ISSUES TO BE CONSIDERED BY THE EXECUTIVE COMMITTEE

There are no issues under the original work plan for Task XV requiring consideration by the ExCo.

The ExCo is requested to consider the proposal for an extension of Task XV submitted as a separate document.