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

Task XV: Network-Driven DSM

**PROSPECTUS:
RESEARCH PROJECT ON
NETWORK-DRIVEN DSM**

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CONTENTS

| | |
|---|----|
| EXECUTIVE SUMMARY | ii |
| 1. INTRODUCTION..... | 1 |
| 1.1 A New Multi-National Research Project..... | 1 |
| 1.2 Why Network-Driven DSM?..... | 1 |
| 1.3 Benefits to Participating Organisations | 2 |
| 1.4 Project Responsibilities | 2 |
| 2. OBJECTIVES..... | 3 |
| 3. WORKPLAN..... | 3 |
| 3.1 Subtask 1: Worldwide Survey of Network-Driven DSM Projects..... | 4 |
| 3.2 Subtask 2: Assessment and Development of Network-Driven..... | 4 |
| DSM Measures | |
| 3.3 Subtask 3: Incorporation of DSM Measures into Network Planning..... | 5 |
| 3.4 Subtask 4: Development of Business Models, Rules and Procedures..... | 6 |
| for Network-Driven DSM | |
| 3.5 Subtask 5: Communication of Information About Network-Driven DSM | 7 |
| 4. TIMETABLE..... | 7 |
| 5. OPERATING AGENT | 9 |
| 6. BUDGET | 10 |
| 7. CONCLUSION..... | 11 |
| APPENDIX: DETAILED BUDGET FOR TASK XV..... | 12 |

EXECUTIVE SUMMARY

This Prospectus outlines a new multi-national research project to be undertaken under the auspices of the International Energy Agency Demand Side Management Programme. The research project will investigate *network-driven DSM measures* which may provide viable alternatives to augmentation of electricity networks and also provide network operational services.

The purpose of this Prospectus is to provide information for organisations which may wish to participate in the network-driven DSM research project. In IEA terminology, research projects are referred to as ‘Tasks’. There is now an opportunity for interested organisations to participate in the Network-driven DSM Task, which is now known as “Task XV” of the IEA DSM Programme.

The focus of Task XV is on identifying and developing the most appropriate and cost-effective DSM measures to relieve electricity network constraints and/or provide network operational services.

Participating in Task XV will enable organisations to:

- understand the advantages and disadvantages of network-driven DSM measures as alternatives to network augmentation and for providing network operational services;
- gain information about network-driven DSM measures currently in use in other countries and about the relative effectiveness of these measures;
- understand the factors which lead to a network-driven DSM measure being effective;
- participate in further developing network-driven DSM measures so that they will be successful in achieving network-related objectives;
- identify modifications which can be made to existing network planning processes to incorporate network-driven DSM measures as alternatives to network augmentation;
- understand the interaction between network-driven DSM and the operation of competitive electricity markets;
- participate in developing business models, rules and procedures to achieve the successful implementation of network-DSM measures under different electricity market structures and regulatory regimes.

Participating in Task XV will enable organisations to gain access to international experience on network-driven DSM for a very small cost. Assuming that five IEA countries participate, the cost for each country will be about 22,820 euros a year for two years (approximately USD28,000 at current exchange rates) which can be shared between interested organisations in that country. The cost will be less if more countries participate.

In addition, country Experts will be required to undertake about two person-months of work during the 18 month duration of Task XV plus attend four meetings of the Experts group.

1. INTRODUCTION

1.1 A New Multi-national Research Project

This Prospectus outlines a new multi-national research project to be undertaken under the auspices of the International Energy Agency Demand Side Management Programme. The research project will investigate *network-driven DSM measures* which may provide viable alternatives to augmentation of electricity networks.

The 17 member countries of the IEA DSM Programme undertake collaborative research on demand side management and energy efficiency. Participation in these multi-national research projects is a very effective way of gaining valuable information about international experience in implementing DSM and energy efficiency programs. Because the various participants share the costs of the research, organisations in IEA member countries can participate in the research projects at moderate cost.

The purpose of this Prospectus is to provide information for organisations which may wish to participate in the new network-driven DSM research project. In IEA terminology, research projects are referred to as ‘Tasks’. There is now an opportunity for interested organisations to participate in the Network-driven DSM Task, which is now known as “Task XV” of the IEA DSM Programme.

Organisations wishing to participate in Task XV may register this interest by contacting:

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1.2 Why Network-Driven DSM?

Task XV will identify the most appropriate and cost-effective DSM measures to relieve electricity network constraints. All types of constraint will be addressed, including capacity limitations, voltage fluctuations, reliability issues, etc. The Task will identify and develop a wide range of DSM measures which can be used to relieve network constraints, whether these constraints are time-related (eg occurring at times of the network system peak) or location-related (eg associated with particular lines or substations) or both. Such network-driven DSM measures are often more cost-effective, and may also have lower environmental impacts, than network augmentation (ie building ‘poles and wires’).

In addition to relieving network constraints, DSM can also provide services for electricity network system operators, achieving peak load reductions with various response times for network operational support. Task XV will also cover DSM activities which provide network operational services.

Network-driven DSM measures include:

- distributed generation, including standby generation and cogeneration;
- energy efficiency;
- fuel substitution;
- load management, including interruptible loads, direct load control, and demand response;
- power factor correction;
- pricing initiatives, including time of use and demand-based tariffs.

To date, the IEA DSM Programme has not undertaken any work on the potential for DSM to cost-effectively relieve electricity network constraints or to provide network operational services. Network constraints are becoming a significant problem in countries where electricity demand is increasing and network infrastructure ('poles and wires') is ageing. As loads grow and infrastructure reaches the end of its economic life, the potential cost of augmenting networks is increasing exponentially. In many situations, network-driven DSM can delay the need for network augmentation. In certain limited situations, network-driven DSM may be able to cost-effectively eliminate the requirement to build a 'poles and wires' solution.

Therefore, member countries of the IEA DSM Programme have agreed to initiate Task XV as a new multinational research project to investigate network-driven DSM measures.

1.3 Benefits to Participating Organisations

Participating in Task XV will enable organisations to:

- understand the advantages and disadvantages of network-driven DSM measures as alternatives to network augmentation and for providing network operational services;
- gain information about network-driven DSM measures currently in use in other countries and about the relative effectiveness of these measures;
- understand the factors which lead to a network-driven DSM measure being effective;
- participate in further developing the identified DSM measures so that they will be successful in achieving network-related objectives;
- identify modifications which can be made to existing network planning processes to incorporate network-driven DSM measures as alternatives to network augmentation;
- understand the interaction between network-driven DSM and the operation of competitive electricity markets;
- participate in developing business models, rules and procedures to achieve the successful implementation of network-DSM measures under different electricity market structures and regulatory regimes.

1.4 Project Responsibilities

IEA DSM Programme Tasks are undertaken collaboratively under the management of an 'Operating Agent' (project manager). The Operating Agent is responsible for overall project management including project deliverables, milestones, schedule, budget and communications.

The actual research work for a Task is carried out by a combination of the Operating Agent and a group of country Experts, depending on the nature of the work to be carried out. Each country which is participating in a Task nominates one person as its country Expert. Each Expert is responsible for carrying out any research work within his/her country which is

required for the Task. All the Experts meet regularly to review and assess the progress of the work completed by the Operating Agent and by the group of Experts. Experts meetings are usually held between two and four times a year on a rotational basis in one of the countries participating in the Task.

In Task XV, country Experts will be responsible for identifying and providing information on both the network-driven DSM measures and electricity network planning processes implemented in their countries. The Operating Agent will be responsible for identifying network-driven DSM measures implemented in non-participating countries and for analysing and further developing the information provided by the Experts.

Each country Expert will be required to undertake about two person-months of work during the 18 month duration of Task XV plus attend four meetings of the Experts group.

Further details on the responsibilities of the Operating Agent and the country Experts is provided in the detailed Task XV Workplan (see section 3.0, page 3).

2. OBJECTIVES

The objectives for Task XV are:

- 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.

3. WORKPLAN

The Workplan for Task XV comprises five Subtasks.

- Subtask 1: Worldwide Survey of Network-Driven DSM Projects.
- Subtask 2: Assessment and Development of Network-Driven DSM Measures.
- Subtask 3: Incorporation of DSM Measures into Network Planning.
- Subtask 4: Evaluation and Acquisition of Network-Driven DSM Resources.
- Subtask 5: Communication of Information About Network-Driven DSM.

3.1 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.

Activity 1-1: Network-Driven DSM Projects in Participating Countries

The country Experts will carry out a survey of the network-driven DSM projects implemented in their respective countries, using an information collection instrument developed by the Operating Agent. The information collected about each project will include: details about: the objectives of the project; the network-driven DSM measures employed; the market segments addressed; the regulatory regime under which the project was implemented, the level of success of the project; the cost of the project; and the impact of the project in terms of MW or MVA reduced. As the results of the survey are received, the Operating Agent will include them in a database of information about network-driven DSM measures (see Activity 5-2, page 7).

Activity 1-2: Network-Driven DSM Projects in Other Countries

The Operating Agent will carry out a similar survey of network-driven DSM projects implemented in other countries. Information sources for this survey will include the INDEEP database developed by the IEA DSM Programme, internet searches and personal contacts.

The proposed Operating Agent for Task XV, Dr David Crossley, is currently undertaking a preliminary similar survey for a client in Sydney, Australia. Dr Crossley will seek approval from this client to include the results of the preliminary survey in the database to be established by Task XV.

Activity 1-3: Identification of Network-Driven DSM Measures

The Operating Agent will review the information contained in the database of network-driven DSM projects to identify the DSM measures which have been employed in the projects. The list of identified measures will be circulated to the country Experts for their comments and feedback before it is finalised.

3.2 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.

Activity 2-1: Value Proposition for Network-Driven DSM

This activity will draw on the work undertaken in IEA DSM Programme Task XIII: Demand Response Resources. Task XIII is examining the multiple value propositions for demand response in the electricity market, including relief of transmission and distribution constraints and the provision of network operational services. The Operating Agent for Task XV will work with the country Experts to build on the Task XIII work to clearly identify the value proposition for network-driven DSM measures, including the specific network problems which these measures can successfully address.

Activity 2-2: Effectiveness of Network-Driven DSM Measures

The Operating Agent will analyse the information contained in the database of network-driven DSM projects to determine the factors which result in a network-driven DSM measure being successful in cost-effectively achieving the network-related objectives identified in Activity 2-1. Examples of factors which may contribute to a measure being successful include: the regulatory regime in which the measure is implemented; characteristics of the project proponent, such as their ability to access the end-users targeted by the measure; and the existence or lack of government policies which support the measure being implemented. The list of factors developed by the Operating Agent will be circulated to the country Experts for review.

Activity 2-3: Further Development of Network-Driven DSM Measures

The Operating Agent will work with the country Experts to further develop the network-driven DSM measures to improve their effectiveness in achieving network-related objectives. The result of this development process will be a concise description of each measure, a list of the network problems it can address, and details about how the measure should be implemented for it to be most effective. The country Experts will be encouraged to circulate drafts of these descriptions to relevant people in their respective countries seeking comments about the practicality of the measures. This will serve as a ‘reality check’ in relation to each of the measures.

3.3 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.

Activity 3-1: Interaction between Network-Driven DSM, Electricity Markets and Regulatory Regimes

This activity will draw on work undertaken in IEA DSM Programme Task XIII: Demand Response Resources. Task XIII is defining the market structures and alternative scenarios for demand response participation in each participating country. The Operating Agent for Task XV will work with the country Experts to build on the Task XIII work to describe in detail how network-driven DSM measures interact with the electricity market structures and

regulatory regimes existing in each participating country. Particular consideration will be given to the impact of different types of regulatory regimes on the economic and financial viability of network-driven DSM measures. This information will be used to identify the most effective ways to implement network-driven DSM measures in electricity markets structured in different ways and under different types of regulatory regimes.

Activity 3-2: Identification of Network Planning Processes

The country Experts will carry out a survey of the network planning processes implemented in their respective countries, using an information collection instrument developed by the Operating Agent. As the results of the survey are received, the Operating Agent will include them in a database of information about network planning processes (see Activity 5-2, page 7).

Activity 3-3: Options for Modifying Network Planning Processes

The Operating Agent will work with the country Experts to develop options for modifying network planning processes to incorporate DSM measures as alternatives to network augmentation. The result of this development process will be a concise description of each option, including its advantages and disadvantages, and suggestions as to how the option could be implemented in network planning processes. The country Experts will be encouraged to circulate drafts of these descriptions to relevant people in their respective countries seeking comments about the practicality of the options. This will serve as a ‘reality check’ in relation to each of the options.

3.4 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.

Activity 4-1: Survey of Evaluation and Acquisition Procedures for DSM Resources

The country Experts will collect information about how DSM resources are evaluated, acquired and implemented in their countries, using an information collection instrument developed by the Operating Agent. The information collected will include: methodologies for evaluating the likely demand reduction and cost of proposed DSM options; and details of procedures for acquiring DSM resources, such as direct purchase, standard offers, requests for proposals, calls for expressions of interest, etc.

Activity 4-2: Development of ‘Best Practice’ Procedures

The Operating Agent will assess the information collected in Activity 4-1 and develop ‘best practice’ principles, procedures and methodologies for the evaluation and acquisition of network-driven DSM resources.

3.5 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

- A Task Newsletter.
- Information databases about network-driven DSM projects and measures.
- Regional workshops about network-driven DSM held in Europe, North America and Asia Pacific.

Activity 5-1: Prepare and Circulate a Task Newsletter

Information about the progress of Task XV will be provided to the country Experts through a regular newsletter.

Activity 5-2: Establish Information Databases about Network-Driven DSM

The Operating Agent will establish and update databases containing relevant information about network-driven DSM projects and measures, and network planning processes, and will make these available to the country Experts through a secure web site. Twelve months after the conclusion of the project, public access will be provided to these databases.

Activity 5-3: Conduct Regional Workshops

At the conclusion of the project, the Operating Agent will organise and conduct regional workshops about network-driven DSM in Europe, North America and Asia Pacific. The workshops will be relatively small, but will be targeted at relevant audiences, including representatives of electricity network businesses, government agencies and electricity end-users.

4. TIMETABLE

The timetable for Task XV is shown below. The Task will be completed over a period of 18 months, commencing on 18 October 2004, and finishing on 30 April 2006. Subtask 1 will take eight months, Subtask 2 six months, Subtask 3 eight months, and Subtask 4 four months to complete. Subtask 5 will commence approximately two months after the commencement of the Task and will then continue throughout the Task.

TASK XV TIMETABLE

| Subtasks | 2004 | | | 2005 | | | | | | | | | | | | 2006 | | | |
|--|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr |
| 1 Worldwide Survey of Network-Driven DSM Projects | | | | | | | | | | | | | | | | | | | |
| 2 Assessment and Development of Network-Driven DSM Measures | | | | | | | | | | | | | | | | | | | |
| 3 Incorporation of DSM Measures into Network Planning | | | | | | | | | | | | | | | | | | | |
| 4 Evaluation and Acquisition of Network-Driven DSM Resources | | | | | | | | | | | | | | | | | | | |
| 5 Communication of Information about Network-Driven DSM | | | | | | | | | | | | | | | | | | | |

5. OPERATING AGENT

The Operating Agent for Task XV is Dr David Crossley, Managing Director of the consultancy firm Energy Futures Australia Pty Ltd. Dr Crossley conceived the original idea for Task XV and has been responsible for developing the Task XV Workplan.

Biography: Dr David Crossley

Dr David Crossley has 28 years experience working in the energy sector, both in Australia and internationally, particularly in the following areas:

- sustainable energy policy and programs, including energy efficiency, demand-side management, renewable energy and abatement of greenhouse gas emissions;
- government energy policy and planning, across all energy forms;
- energy industry restructuring and reform.

David established Energy Futures Australia Pty Ltd in mid-1996 to provide consultancy services on energy and environmental policy and programs. Since then, he has completed a broad range of consultancy projects.

In particular, from 1997 to 2000 David was the Operating Agent for Task VI of the IEA DSM Programme. Task VI developed policy, regulatory and commercial mechanisms for promoting DSM and energy efficiency in restructured electricity industries. The project included identifying case studies of mechanisms currently in use in the participating countries and collecting and analysing data about these mechanisms. David initiated the project and was responsible for developing the work program and the overall management of the project, including managing the work of seven contractors in various locations in Europe, North America and Australia.

In early 1996, for the State Government of New South Wales, Australia, David established the Sustainable Energy Development Authority with a mandate to reduce greenhouse gas emissions through promoting energy efficiency and increased use of renewable energy. David chaired the working group which recommended to the Treasurer and Minister of Energy the establishment of SEDA, advised on the drafting of SEDA's enabling legislation, set the initial goals and objectives for the commercial operation of SEDA, and acted as Executive Director of SEDA for the first three months of its existence.

From 1990 to 1995, David was the senior executive responsible for DSM and energy efficiency policy and program development in Pacific Power, which was then the monopoly electricity generator and transmission network service provider in New South Wales.

From 1994 to 1996, David represented Australia on the Executive Committee of the IEA DSM Programme and on the Inter-Utility Demand-side Management Liaison Group of the Asia-Pacific Economic Co-operation forum (APEC).

David wrote the DSM sections in the *National Grid Protocol*, the original design for the Australian National Electricity Market, published in 1992. He edited the report *Demand Management Opportunities in the Competitive Electricity Market* published in 1994. During 1994 and 1995, David was also the Convenor of the Demand Management and Energy Efficiency Committee of the Electricity Supply Association of Australia. In these roles, David was the major player in coordinating the development of national policy on DSM and energy efficiency in the Australian competitive electricity market.

From 1983 to 1987, David was the energy planner for the State Government of Victoria, Australia with responsibility for the development of energy policy and programs across all energy forms, including establishing a state-wide energy planning program.

From 1975 to 1982, David carried out academic research on energy policy and consumer energy conservation behaviour at Griffith and Monash Universities in Australia.

6. BUDGET

The budget for Task XV is denominated in euros and the total cost is €28,200. The cost of each Subtask is shown in the table below with a more detailed breakdown in the Appendix on page 12.

| Subtasks | Budget |
|--|-----------------|
| Task Definition Phase | €11,700 |
| 1 Worldwide Survey of Network-Driven DSM Projects | €53,000 |
| 2 Assessment and Development of Network-Driven DSM Measures | €52,000 |
| 3 Incorporation of DSM Measures into Network Planning | €38,000 |
| 4 Evaluation and Acquisition of Network-Driven DSM Resources | €37,500 |
| 5 Communication of Information About Network-Driven DSM | €36,000 |
| Total Task | €228,200 |

At the time of writing, Australia, France, Spain and the United States are participating in Task XV. The Task is still open to participation by other countries and based on past experience, it is likely that other countries will join the Task once the work has started and the benefits of participating become clearer.

Assuming equal sharing of the Task budget, the following table shows the country contributions required for participation of four to eight countries.

| No Countries Participating | Country Contribution |
|-----------------------------------|-----------------------------|
| Four | €57,050 |
| Five | €45,640 |
| Six | €38,033 |
| Seven | €32,600 |
| Eight | €28,525 |
| Total Budget | €228,200 |

7. CONCLUSION

Participating in Task XV will enable organisations to gain access to international experience on network-driven DSM for a very small cost. Assuming that five IEA countries participate, the cost for each country will be about 22,820 euros a year for two years (approximately USD28,000 at current exchange rates) which can be shared between interested organisations in that country. The cost will be less if more countries participate.

In addition, country Experts will be required to undertake about two person-months of work during the 18 month duration of Task XV plus attend four meetings of the Experts group.

APPENDIX: DETAILED BUDGET FOR TASK XV

| Subtasks | Days | OA Cost | Travel | Expenses | Total |
|---|------------|-----------------|----------------|----------------|-----------------|
| Task Definition Phase | 8 | €7,200 | €4,000 | €500 | €11,700 |
| Subtotal Task Definition Phase | 8 | €7,200 | €4,000 | €500 | €11,700 |
| 1-1 Network-Driven DSM Projects in Participating Countries | 20 | €18,000 | €2,000 | €1,500 | €21,500 |
| 1-2 Network-Driven DSM Projects in Other Countries | 25 | €22,500 | €2,000 | €1,500 | €26,000 |
| 1-3 Identification of Network-Driven DSM Measures | 5 | €4,500 | | €1,000 | €5,500 |
| Subtotal Subtask 1 | 50 | €45,000 | €4,000 | €4,000 | €53,000 |
| 2-1 Value Proposition for Network-Driven DSM | 15 | €13,500 | €2,000 | €1,000 | €16,500 |
| 2-2 Effectiveness of Network-Driven DSM Measures | 15 | €13,500 | | €1,000 | €14,500 |
| 2-3 Further Development of Network-Driven DSM Measures | 20 | €18,000 | €2,000 | €1,000 | €21,000 |
| Subtotal Subtask 2 | 50 | €45,000 | €4,000 | €3,000 | €52,000 |
| 3-1 Interaction between Network-Driven DSM and Electricity Markets | 10 | €9,000 | | €500 | €9,500 |
| 3-2 Identification of Network Planning Processes | 10 | €9,000 | | €500 | €9,500 |
| 3-3 Options for Modifying Network Planning Processes | 20 | €18,000 | | €1,000 | €19,000 |
| Subtotal Subtask 3 | 40 | €36,000 | | €2,000 | €38,000 |
| 4-1 Survey of Evaluation and Acquisition Procedures for DSM Resources | 15 | €13,500 | €2,000 | €1,000 | €16,500 |
| 4-2 Development of 'Best Practice' Procedures | 20 | €18,000 | €2,000 | €1,000 | €21,000 |
| Subtotal Subtask 4 | 35 | €31,500 | €4,000 | €2,000 | €37,500 |
| 5-1 Prepare and Circulate a Task Newsletter | 5 | €4,500 | | €1,500 | €6,000 |
| 5-2 Establish Information Databases about Network-Driven DSM | 10 | €9,000 | | €1,500 | €10,500 |
| 5-3 Conduct Regional Workshops | 15 | €13,500 | €4,000 | €2,000 | €19,500 |
| Subtotal Subtask 5 | 30 | €27,000 | €4,000 | €5,000 | €36,000 |
| TOTAL TASK | 213 | €191,700 | €20,000 | €16,500 | €228,200 |