Task XV Work Plan

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Network-Driven DSM

- For the purposes of Task XV, 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
Focus on Network Constraints

- The focus of the proposed Network-Driven DSM Task is on identifying the most appropriate DSM measures to overcome electricity network constraints at both the distribution and transmission level.

- All types of ‘constraint’ will be addressed, including capacity limitations, voltage fluctuations, reliability issues, etc.
Objectives

- To identify a wide range of DSM measures which can be used to relieve electricity network constraints
- To further develop the identified network-driven DSM measures so that they will be successful in cost-effectively relieving network constraints at the distribution and/or transmission levels
- 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
Work Plan

- **Subtask 1**: Worldwide Survey of Network-Driven DSM Activities
- **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
Subtask 1 Survey of DSM Projects

**Objective**
- To identify a wide range of DSM measures which can be used to relieve electricity network constraints

**Deliverable**
- A report listing and summarising network-driven DSM projects implemented around the world
Subtask 1 Survey of DSM Projects

- **Activity 1-1:** Network-Driven DSM Projects in Participating Countries
- **Activity 1-2:** Network-Driven DSM Projects in Other Countries
- **Activity 1-3:** Identification of Network-Driven DSM Measures
Subtask 2 Network-Driven DSM Measures

Objective

- To further develop the identified network-driven DSM measures so that they will be successful in cost effectively relieving network constraints

Deliverable

- A report listing and summarising successful network-driven DSM measures and the specific network problems they address
Subtask 2 Network-Driven DSM Measures

● **Activity 2-1**: Value Proposition for Network-Driven DSM
● **Activity 2-2**: Effectiveness of Network-Driven DSM Measures
● **Activity 2-3**: Further Development of Network-Driven DSM Measures
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

Deliverable

- A report on ways in which network planning processes can be modified to incorporate DSM measures as alternatives to network augmentation
Subtask 3 DSM and Network Planning

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

• **Activity 3-2:** Identification of Network Planning Processes

• **Activity 3-3:** Options for Modifying Network Planning Processes
Subtask 4 Evaluation & Acquisition of DSM Resources

**Objective**
- To develop ‘best practice’ principles, procedures and methodologies for the evaluation and acquisition of network-driven DSM resources

**Deliverable**
- A report on ‘best practice’ principles, procedures and methodologies for the evaluation and acquisition of network-driven DSM resources
Subtask 4 Evaluation & Acquisition of DSM Resources

- **Activity 4-1:** Survey of Evaluation and Acquisition Procedures for DSM Resources
- **Activity 4-2:** Development of ‘Best Practice’ Procedures
Subtask 5 Communication of Information

**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

**Deliverables**

- 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
Subtask 5 Communication of Information

- **Activity 5-1:** Prepare and Circulate a Task Newsletter
- **Activity 5-2:** Establish Information Databases about Network-Driven DSM
- **Activity 5-3:** Conduct Regional Workshops
Timetable

Subtask 1
Subtask 2
Subtask 3
Subtask 4
Subtask 5

Months:
- 0: 18 Oct 04
- 5: 1 Dec 04
- 10: 1 Apr 05
- 15: 1 Jun 05
- 20: 30 Apr 06
Information Plan (1)

Subtask 1
- Report listing and summarising network-DSM projects implemented around the world

Subtask 2
- Report listing and summarising successful network-driven DSM measures and the specific network problems they address

Subtask 3
- Report on ways in which network planning processes can be modified to incorporate DSM measures as alternatives to network augmentation
Information Plan (2)

**Subtask 4**
- Report on ‘best practice’ principles, procedures and methodologies for the evaluation and acquisition of network-driven DSM resources

**Subtask 5**
- 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