

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

Subtask 3 DSM and Network Planning

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

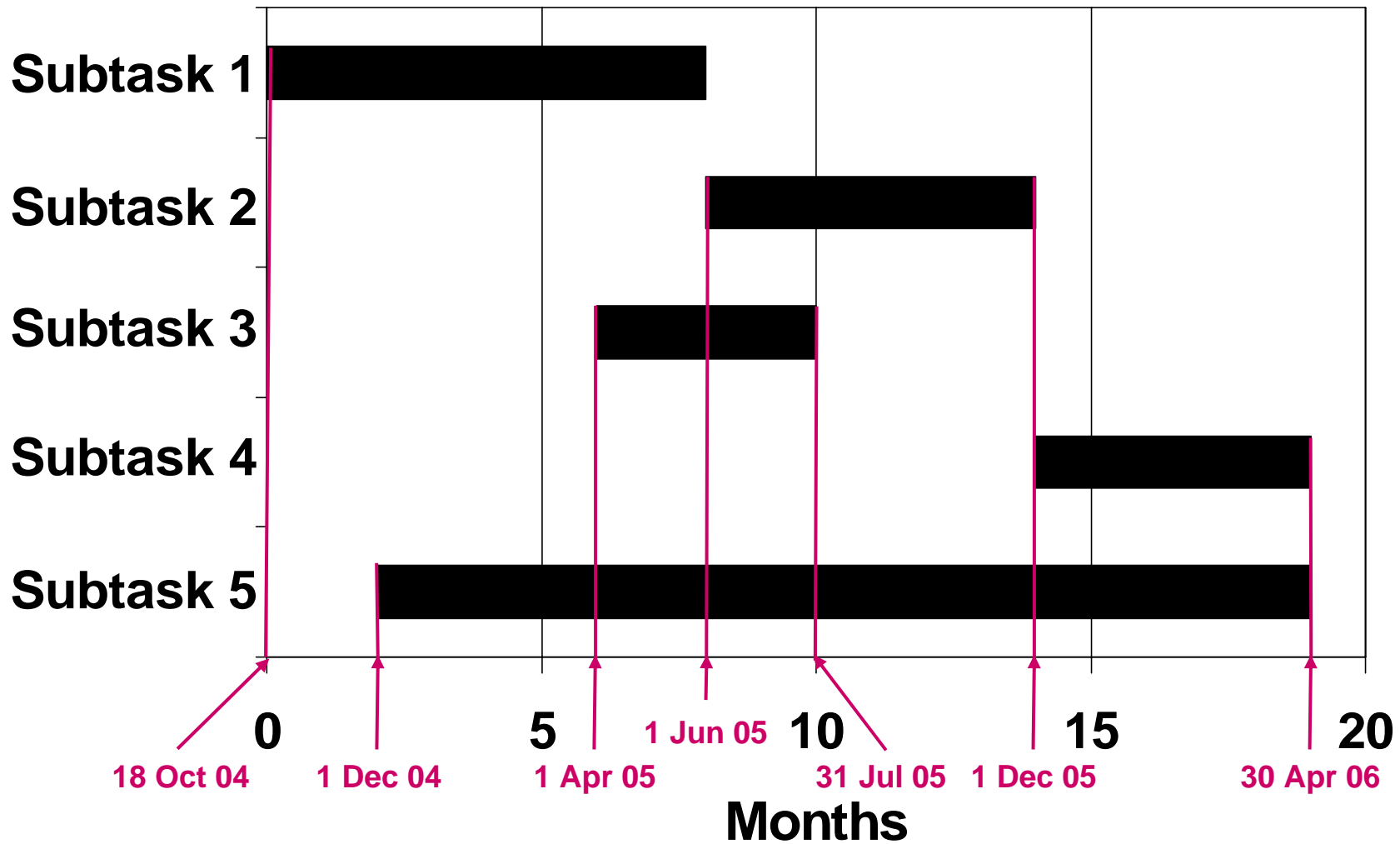
- Task Newsletter
- Information databases about network-driven DSM projects and measures
- Regional workshops about network-driven DSM held in Europe, North America and Asia Pacific



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



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