

# Demand Response Resources



## DSO Forum IEA DSM Task XIII Madrid, October 19, 2005

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### Demand Response Resources

There is a new tool for risk management on your horizon...

#### PARTICIPANTS

- Australia
- Denmark
- Finland
- Italy
- Japan
- Korea
- Netherlands
- Norway
- Spain
- Sweden
- USA

#### WELCOME TO IEA DRR TASK XIII

**Danger, Danger, Danger.** The computer screen flashes red indicating a severe congestion problem in the northern region. The control room operator jumps into action and activates the local demand response resources (DRR). These resources have been properly trained and well coordinated for several years, so they know just what to do when asked. A few consumers reduce their loads and others turn on a facility generator. As all of this is taking place, the control room operator watches the congestion problem disappear. But they were not really concerned, they've seen the DRR spring into action before.

The International Energy Agency's Demand Side Management Programme (IEA-DSM) established Task XIII to evaluate DRR practices from around the world and develop recommendations on best practices for integrating DRR into regular market activities. Task XIII was formally approved at the DSM Executive Committee meeting on April 15, 2004. Ross Malme (USA), President & CEO of RETX Energy Services Inc. and Chairman of the Peak Load Management Alliance (a USA DRR trade association), was inducted as the Operating Agent for Task XIII.

Demand response is the ability of electricity demand to respond to variations in electricity prices in "market" or "real" time. It can be achieved through load reductions or utilizing alternative on-site generation sources. Inclusion of Demand Response Resources (DRR) in energy markets can take

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Ross Malme  
Operating Agent

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## DRR Project Objectives



- #1 - Identify and develop the country-specific information needed to establish the potential for demand response.
- Status: The Market Characterization Toolkit has been completed and a country comparison report based on these surveys has been published.
  - Status: The DR Potential Toolkit has been completed and is available for use in any market

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## DR Project Objectives



#2 - Perform the market and institutional assessment needed to set realistic goals for the contribution of DRR to sector objectives.

- Status: The final version of the DR Potential Toolkit including an analytical report of findings was delivered to the project
- Status: Complete draft volumes of the DR Valuation Toolkit were delivered to the project for final review and comment.
- The OA team is actively working to complete the DR Technology Assessment Toolkit and Market Barriers toolkit before the end of the year.

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## DR Project Objectives



- #3 - Mobilize technical and analytic resources needed to support the implementation of DRR programs and track their performance.
- Status: Task XIII is creating and continuously updating an actionable guidebook to be used by each country to develop its own implementation strategy for introducing DR into their own electricity markets.

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## DRR Project Participation

- Countries Participating
  - Australia, Canada, Denmark, Finland, Italy, Korea, Netherlands, Norway, Spain, Sweden, USA
- Canada has joined
- Japan has withdrawn
- Countries Interested
  - China, India, South Africa, Thailand, Mexico, Dominican Republic
  - Tanzania, Kenya, Zimbabwe

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## DRR Project Schedule

Activity	2004	2005	2006
Phase 1 Subtask 1 – Project Objectives	—		
Subtask 2 – Country Objectives Market Characterisation	—		
Phase 2 Subtask 3 – Market Potential of DRR	—		
Subtask 4 – DRR Valuation	—	—	
Subtask 5 – Role and Value of Technologies		—	
Subtask 6 – Business Plan Development		—	
Phase 3 Subtask 7 – Communication, Collaboration and Workshops	—	—	—
Subtask 8 – Implementation			—
Education, Management and Administration	—	—	—
Executive Relations, Education and Evangelising	—	—	—
Project Management and Administration	—	—	—

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## Progress on Workplan

- Deliverables Completed
  - Market Characterization Toolkit released
  - DR Research Library released
  - DR Communications Toolkit released
  - DRR Potential Toolkit released
  - DR Valuation Toolkit released
  - 1 update issued for the Project Guidebooks
  - 3 Demand Response Dispatcher newsletters published
  - Numerous presentations and papers included in the Task Information Plan

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## Progress on Workplan

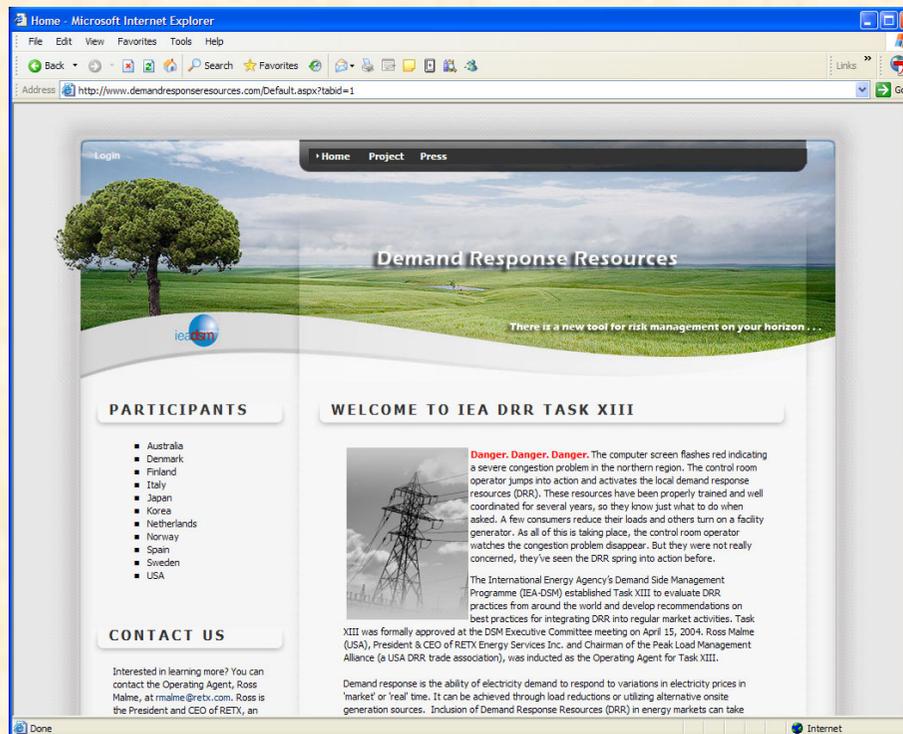
- Deliverables Scheduled for Next Period
  - Subtask 5: DR Technology Assessment Toolkit
    - First draft of technology catalog
  - Subtask 6: Overcoming Market Barriers
    - Reference database of market barriers and solutions
    - Early draft of DR Market Implementation Strategy Toolkit
  - Expanded DR Research Library
  - Preparations for DR Market Implementation presentations

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## DRR Project Portal

[dsm.iea.org/NewDSM/Work/Tasks/13/task13.asp](http://dsm.iea.org/NewDSM/Work/Tasks/13/task13.asp)  
[www.demandresponseresources.com](http://www.demandresponseresources.com)



- New search engine
- New deliverables
- New guidebook updates
- New research in library
- New project roadmap
- New site map
- New meeting info
- New presentations

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## Task Information Plan- Publications

- Demand Response Resources Newsletter
  - 3 issues published in June, July, and September
- Project Guidebooks
  - Distributed at Experts Meeting including A4 versions
  - 1 updates distributed through the project portal
- IEA Publications
  - Open Newsletter, Spotlight Newsletter

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## Task Information Plan - Presentations

- North America
  - US DRCC Town Hall Meeting
  - Canada NRCAN and OEB Task XIII Briefing
- Europe
  - CIGRE Task XIII Presentation (Turin, Italy)
  - Norway Task XIII Workshop
  - Finland Task XIII Workshop
  - REEEP Task XIII Briefing
  - CTI Task XIII Briefing
- Asia
  - India Task XIII Introduction
  - Task XIII Telephone Conferences

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## Next Experts Workshop

- Next meeting scheduled in Melbourne, Australia
  - November 9-10, 2005
  - Review of market valuation tools
  - Focus on technology assessment
  - Focus on market barriers and solutions
  - Focus on DR Market Implementation Strategies

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