



*A New Dawn for Demand-Side Measures:  
Perspectives, Strategies and Experiences*

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# Overview



- Objectives of the workshop
- Enova and its objectives
- Enovas participation in IEA programmes
- Enovas role in IEA Demand-Side Management Programme
- Workshop programme and practical information



# Workshop Objectives

- Introduce Norwegian audience to the IEA and the IEA DSM Programme in particular
- Provide introduction to Norwegian energy demand management activities: Policy, experiences with use of measures, project results and enabling technology provider perspective to the IEA DSM members
- Post-deregulated energy sector represents new set of challenges: Responsibilities polarized and funding for activities harder to identify and obtain
- Future? Establish Norwegian Energy Demand Network to share concerns, experiences, project results, and co-ordinate national/international participation and hopefully pool resources
- Re-introduce Energy Demand Management on the agenda and provide new focus on current and future challenges in developing and implementing effective measures and technologies to achieve goals



# Enova: General Facts and Objectives

- Owned by the Ministry of Petroleum and Energy
- Established by the Norwegian Parliament in 2001
- Operational 01.01.2002
- A team of 30 staff
- Limit energy use considerably more than if developments were allowed to continue unchecked
- Decrease dependency on electricity for heating and increase use of hydronic central heating systems with renewable energy sources, heat pumps and waste heat of 4 TWh by the year 2010
- Increase wind power generation to 3 TWh/year by 2010
- Increase environmentally sound stationary use of natural gas

# Enova's role and participation in IEA DSM Programme



- Enovas role in IEA Demand-Side Management Programme
- Participation: Recently completed tasks/projects:
- Participation: New tasks/projects
- Proposed tasks still undecided:
- Interaction with other actors

# Enova's Programmes 2004

- Heat: Distribution (infrastructure) and Generation
- Industry: Benchmarking and Energy Audits and Analysis
- Energy Management: Large commercial buildings and Small commercial buildings
- Residential buildings: Demonstration projects, new homes and rehabilitation
- Lighting: Retrofitting of outdoor lighting and street lighting
- Wind energy and renewable energy
- Information, advice and campaigns
- Training and Education



# Enova's IEA involvement

IEA Energy Efficiency Working Party: Enova represents the Ministry

IEA Implementing Agreements:

- Demand-Side Management: Contracting Party, ExCo, and co-finances tasks
- Heat Pump Programme: ExCo, and co-financing of tasks
- Wind: Enova and NVE Joint-CP, ExCo
- EETIC: ExCo, and finances Norwegian participating and Secretariat
- Energy Technology and Data Exchange (ETDE)
- Solar Heating Cooling: National Expert in 1 task and co-financing
- District Heating and Cooling: Contributes co-financing tasks)
- Bioenergy: Co-financing of tasks
- Energy Conservation in Buildings and Community Systems: Co-finances Norwegian participation in AIVC

# Enova's Involvement in Demand Management



- Background, Key Questions and Objectives
- Scope and Case Studies
- Comparative perspective – IEA link, etc.