Description of integrated pilots/demonstrations/field tests/existing practices

1. Name of the case CRISP fieldtest

2. What is integrated with DSM
   - DG [x]
   - Energy storage [x]
   - Smart grid technologies [x]

3. What is the level of commercialization
   - Research project [x]
   - Demonstration [ ]
   - Field test [x]
   - Existing practice [ ]

4. Where to find more information?
   - Contact person: R. Kamphuis
   - Company: ECN
   - web-site: crisp.ecn.nl
   - references: FPS-papers

5. Objectives of the case Diminish imbalance of the portfolio of a Program Responsible Party on the electricity market by real-time monitoring and coordination

6. Business rationale/model Real-time monitoring and management of a portfolio allows control optimization in order to avoid cost paid to the TSO for causing imbalance and to operate in reverse of the real-time national imbalance signal.

7. Technologies used ICT network with PowerMatcher

8. Short description of the case See report enclosed.

9. Achieved/expected results (operational savings, CO₂, efficiency enhancement)
   - Imbalance reduction up to 40 %
Description of integrated pilots/demonstrations/field tests/existing practices

10. Lessons learnt: Market embedding of renewable wind is increased. Current information and communication technology allows construction of these kinds of networks.