

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

1. Name of the case Clustered operation of micro-CHP cluster

2. What is integrated with DSM

DG

Energy storage

Smart grid technologies

3. What is the level of commercialization

Research project

Demonstration

Field test

Existing practice

4. Where to find more information?

- Contact person J.W. Turkstra, Gasunie ; R. Kamphuis, ECN
- Company
- web-site
- references <http://www.ecn.nl/publications/default.aspx?nr=ECN-M--08-022> (also enclosed)

5. Objectives of the case Lower transformer load in high DG-RES grids

6. Business rationale/model Distribution company has to invest less in cabling in cases there is a high simultaneity of generation at certain points in time; in this case heat driven operation of CHP can be seen to be avoided

7. Technologies used PowerMatcher and ICT-network (UMTS)

8. Short description of the case See article

9. Achieved/expected results (operational savings, CO₂, efficiency enhancement)
Reduction of peak loads by 30-50 %.



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10. Lessons learnt Some ICT-technological issues to be solved (e.g. UMTS is not yet stable enough. Cost have to be much lower. Helpdesk for first-time users essential.