

PPP: FoF Topic FoF.NMP.2011-1 The Eco-Factory

“Windy Factory – The Eco-Factory of the future”

Objectives:

Holistic approach to manufacturing networks aimed at:

- Efficient control, planning and scheduling
- Decisions support balancing sustainability factors
- Reduce resource consumption, energy and waste
- More innovative manufacturing networks

Main idea:

- Developing efficient control and planning systems (e.g. decision support optimising sustainability in the value-chain).
- Process simulation and modelling
- Life-cycle assessments and benchmarking
- Green performance measurement: monitoring and processing of a product's environmental footprint

Expected results:

- Demonstrator in the energy sector: a lean and innovative manufacturing network for **The 10-day windmill**. Others sectors also to be included

Expected impact

- Strengthening the environmental performance of the eco-factories by reducing resource consumption, energy and waste by at least 20%.
- Increase in competitiveness and innovation ability



EXPRESSED INTEREST IS WELCOMED

Organisation:

SINTEF Technology and Society

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