

**Distributed Renewable resources Exploitation in electric grids
through Advanced heterarchical Management**

	<i>The DREAM innovative software architecture for high DG-RES distribution grids</i>		
Author	Kamphuis, René, Wijbenga, Jan Pieter, Macdougall, Pamela Van der Veen, Jan Sipke Fäth, Matthias		
Event	Paper 0485 Presentation, poster	Organisation	TNO
Contact Person	Despina Koukoula		

ABSTRACT:

The paper describes a gossip protocol based architecture for detecting and resolving overvoltage or undervoltage problems of distribution lines applying Distributed Energy Resources (DERs) management in a decentralized manner. The proposed algorithm is based on the application of gossip protocols to estimate locally critical physical quantities. The paper focuses on the optimal selection of the weights in order to accelerate the convergence of the gossip algorithm.