

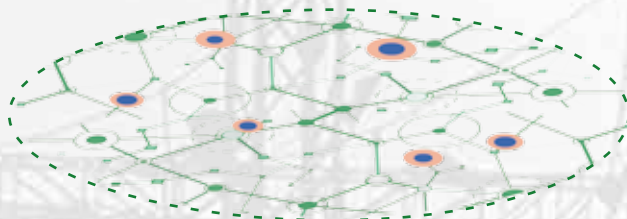
A distribution system with increasing demand. A clean, sustainable, renewable solution with local generators.

1



Analysis of the system for each connection point considering all possible effects to develop an impact map.

2



Decide and present penetration levels for different objectives. Explore outcomes of highly

3



WORKSHOP ON HIGHLY PENETRATED DISTRIBUTION NETWORKS WITH DG



Date: 16 April 2019
Location: ICEEE 2019, İstanbul, Turkey

This workshop is supported by TÜBİTAK 1001 116E107 project.

This workshop is a special session on ICEEE 2019 6th International Conference on Electrical and Electronics Engineering

About Workshop

In recent years, population growth and industrial development increase the need of energy. **Limited amount of fossil fuels and their impact on the environment are to head towards new and renewable energy resources.** Especially by virtue of government policies to reduce carbon emissions; renewable energy sources such as hydro, wind, solar, geothermal, biomass, biogas, wave and, tidal play a larger role in the power system. However, distribution networks have been planned and operated without local generators or with limited their power capacity. Ever-increasing generators have caused various problems in the distribution networks. **Distribution network operators (DNOs) tasked with ensuring the continuity of reliability and power quality are forced to produce a solution and invest against the risk from the arising generators.**

The workshop is organised to introduce the project called “**Impact Map Development of Distribution Systems Highly Penetrated with Local Generation**” Within the scope of the project, **an impact map will be brought out to guide to DNOs for local generators placement strategies and the delay of the investment requirements of changing traditional distribution networks.** The size of local generator that can be added to any location in the distribution network will be determined and also the distribution network operation conditions will be examined when the generator location is designated.

Workshop Program Tuesday 16 April

13:30-13:50	Project introduction: scope, objectives and goals
13:50-14:10	How to use simulator
14:10-14:40	Methods
14:40-15:00	Break
15:00-15:20	Analysis results
15:20-15:40	Impact map
15:40-16:00	Invited speaker M. Hakan Hocaoglu : GREENDC, Sustainable energy demand side management for GREEN Data Centers

