


# SOUTHEAST EUROPE DISTRIBUTION SYSTEM OPERATOR SECURITY OF SUPPLY WORKING GROUP

## NETWORK MODELING FOR DISTRIBUTED GENERATION OF RENEWABLE ENERGY



*Under the USEA Energy Technology and Governance program, distribution system operators (DSOs) in Southeast Europe are receiving network simulation software and training that enables them to model the integration of additional renewables across their electric networks, and to use those analyses to create long-term network development plans.*



The integration of renewable distributed generation capacity is a critical element of national energy and climate plans in the countries of Southeast Europe. Legacy architecture of distribution systems in the region limits the capacity to integrate distributed generation resources; network upgrades will require significant capital investment. DSOs must submit annual long-term network development plans to their regulatory authorities projecting capital investment priorities based on detailed network analyses. Until now, many of the DSOs in the region did not possess the appropriate tools or technical capacity to undertake such analyses. USAID and USEA are providing them with the modeling software—and relevant training—to meet regulatory requirements and, by doing so, preparing them to support their countries' national energy and climate plans.

### KEY DELIVERABLES:

DigSilent software provided to 11 DSOs in 8 countries: 2019-2021  
DSO working group members trained on use of modeling software:  
2020-2022

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