Expertise areas:

➢ Renewable energy forecasting

➢ Power system integration of renewables

➢ Power systems analysis

➢ Smart Grid

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Recent Projects:

Development of Decision Support Methods for Restoration in Earthquake-Damaged Medium Voltage Electrical Distribution Networks, (2018-2020), Funding Agency: TUBITAK - 1001

Development of an Optimum PMU Placement Method with respect to a Pre – Determined Redundancy Index Considering Installed Power Flow Measurements (2015-2017), Funding Agency: TUBITAK - 3501

Determining Distribution System Connection Criteria for Generation Plants Project, (2017-2018), Funding Agency: Enerjisa – Baskent Enerji

Load Forecasting in the Presence of LV Solar Generation Unitrs, (2018-2019)_, Funding Agency: METU

Recent Publications:

Assessment of Regional Transmission Connection Capacity Based On Two Novel Indices, Ali Haydar Güverçinci, Murat Göl, IET Generation, Transmission & Distribution, vol. 12, issue 14, pp. 3470-3476, August 2018.

Medium-Term Price Forecasting Considering Demand and Supply Uncertainty, Engin Ilseven, Murat Göl, IEEE Transactions on Power Systems, vol. 33, issue 4, pp. 4074-4083, July 2018.

A Decentralization Method for Hybrid State Estimators, Murat Göl, IEEE Transactions on Power Systems, vol. 33, issue 2, pp. 2070-2077, March 2018.

Evaluation of Photovoltaic Systems For Reactive Power Compensation In Low Voltage Power Systems, Mesut Uğur, Erencan Duymaz, Murat Gol, Ozan Keysan, ISGT-Europe 2018, October 2018.

A Strategy Based on Historical Data to Evaluate Solar Power Generation Capability, Deniz Sengul, Murat Göl, UPEC 2018, September 2018.

Load and PV Generation Forecast Based Cost Optimization for Nanogrids with PV and Battery, Ugur Gudelek, Cem Cirak, Efe Arin, Erdem Sezgin, Murat Özbayoğlu, Murat Gol, UPEC2 2018, September 2018.