

# Mahmut Erkut Cebeci – RESUME

## CONTACT INFO

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## BIOGRAPHICAL INFO

**Birth Date** : June 25, 1981  
**Place of Birth** : İstanbul/TURKEY  
**Profession** : Electrical and Electronics Engineer (Msc)  
**Citizenship** : Turkish  
**Marital Status** : Married (1 daughter, 1 son)

## EDUCATIONAL BACKGROUND

- **M.Sc.** in Electrical and Electronics Engineering, Middle East Technical University, Ankara, Turkey (2005 - 2008)
- **B.Sc.** in Electrical and Electronics Engineering, Middle East Technical University, Ankara, Turkey (1999 - 2005)

## WORK EXPERIENCE

- **Apr. 2014 to present:** Managing Partner and Director (R&D Department), EPRA Elektrik Enerji ve İnş. Tic. Ltd. Şti, Hacettepe Teknokent, Ankara, Turkey
- **Jul. 2005 to Apr. 2014:** Chief R&D Engineer, TUBITAK MAM Energy Institute, Power Systems Analysis and Planning Department, Ankara, TURKEY.

## RECENT KEY PROJECTS

- Impact Assessment of Balancing Integration in the Black Sea Region (2017-Project Consultant)
- Investigation of Implementating Multi-time Distribution Charge Tariff R&D Project (2017-Project Consultant)
- Efficient integration of wind and solar power in Turkey - A quantitative analysis of the Turkish power system: Transmission expansion needs and flexibility options (2016-Project Technical Leader)
- Development of transmission system dispatcher training simulator for Turkmenistan (2016- Project Technical Leader)
- Development of a long-term planing optimization software to optimize investments at medium voltage level 2016- Project Technical Leader)
- Distribution grid master plan project and software development for GIS, SCADA and AMR system integration with DigSilent PowerFactory software (2016- Project Technical Leader)
- Development of Security Constrained Unit Commitment algorithm and software (2015- Project Technical Leader)
- Grid code compliance analyses for wind turbines in Turkey (since 2014 – PM)

## PROFESSIONAL SOFTWARE EXPERIENCE

- DigSilent PowerFactory, DigDilent Stationware, PSS/E (Power System Simulator for Engineers),
- EMTP (Electromagnetic Transient Prog.), ATP (Alternative Transient Prog - new version of EMTP),
- MATLAB / Simulink, National Instruments LABVIEW,
- IBM CPLEX, PYTHON, C++

## RECENT KEY PUBLICATIONS

1. S.V.Oprea, A.Bara, M.E.Cebeci, O.B.Tör, "Promoting peak shaving while minimizing electricity consumption payment for residential consumers by using storage devices," *Turkish Journal of Electrical Engineering & Computer Sciences*, 2017 (25) 3725-3737 (*doi: 10.3906 / elk-1606-152*).
2. O.B.Tör, M.E.Cebeci, M.Koç, A.N.Güven, "Dynamic Optimization of Long Term Primary Electric Distribution Network Investments based on Planning Metrics," *Journal of the Faculty of Eng. and Architecture of Gazi University*, (*accepted*).
3. A. Bara, S.V. Oprea, A. Uta, O.B.Tör, M.E.Cebeci, "Informatics Solutions for Smart Trading on Energy Wholesale Markets Containing RES Bidders," *International Conference on Computer Systems and Technologies, CompSysTech 2017*.
4. M. Koç, O. B. Tör, M. E. Cebeci, F.Güler, H. G. Taşkın, A. Tuncer, U. Okul, A. N. Güven, "Optimization of long-term investments of electric distribution systems considering planing metrics", *IEEE PES ICSG İstanbul, 2017*.
5. F. Tursun, M. E. Cebeci, O. B. Tör, A. Şahin, H. G. Taşkın, A. N. Güven, "Determination of zonal power demand S-curves with GA based on top-to-bottom and end-use approaches," *IEEE PES ICSG 2016, (best paper award)*.
6. M. E. Cebeci, O. B. Tor, C. Gencoglu, A. N. Guven, "A Geographical Zoning Methodology for Nodal Transmission Use-of-System Tariffs," *IEEE PES General Meeting, San Diego, USA, July 2012*.