Dr.Irem Isik Cetin

Contact

E-mail: Irem.Cetin@hereon.de
Address: Hamburg/Germany

Education

Doctor of Philosophy (PhD): Department of Earth System Science/ Middle East Technical University (2023)
Master of Science (MS): Department of Earth System Science/ Middle East Technical University (2018)
Bachelor's Degree: Department of Meteorological Engineering / Faculty of Aeronautic and Aerospace/ Istanbul Technical University (2013)

Projects

● KliWiST Project (2023- Current)
● Offshore Wind Strategic Sector Cooperation Project between Denmark and Turkey (2018-2022)
● Identifying and Mapping Offshore Wind Energy Potential of Turkey, funded by European Bank of Reconstruction and Development (2019-2020)
● Instrument Pre Accession (IPA) 2019 Offshore Wind Site Investigations Project (2020-2022)
● Offshore Wind Road Map of Turkey World Bank& ESMAP (2020-2022)
● Wind Power Monitoring and Forecasting Center (2013-2017)

Experience

Researcher,   September 2023-Current
Climate Service Center Germany (GERICS)
Helmholtz-Zentrum Hereon

- KliWiSt Project

International R&D Programmes Group Manager,   September 2022- August 2023
Energy and Technology Policies Department
Turkish Energy, Nuclear and Mineral Research Agency

- Resarching funds from EU and other regions for energy related projects
- Coordinate and apply to International/EU Projects for related institutes
- Prepare and contribute to energy technology road maps including wind, solar, hydrogen and CCUS

R&D Expert   April 2022-September 2022
Clean Energy Research Instiute
Turkish Energy, Nuclear and Mineral Research Agency
- Onshore and iffshore wind energy and research and development

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Wind Energy Group Coordinator& Engineer   August 2017-April 2022
Ministry of Energy and Natural Sources

- Wind resource assessment and micro-siting
- Preparing Wind and Wave Energy Potential Atlas technical specifications
- Responsible for Turkey's first Offshore Wind Energy Tender
- Evaluating meteorological data for required auctions
- Approving met-mast applications for wind power pre-license applications
- Deputy Project Manager in Offshore Wind Strategic Sector Cooperation Project with Denmark
- Wind resource assessment and micro-siting for Turkey's candidate Renewable Energy Resource Zone wind farm projects
- Coordinating wind energy group for technical evaluation of wind farms according to the legislations, permissions of wind farms for license or pre-license applications, magnetic interference permissions from military etc.
- Responsible for the international offshore wind energy development projects in Turkey.

Engineer   Aug.2013-Aug.2017
Wind Power Monitoring and Forecasting Center Project
Ministry of Energy and Natural Sources

- To integrate Wind Power Plants on Wind Power Monitoring and Forecasting Center (RITM)
- Preparing wind resources, maps and predictions using WASP and WindSIM micro-flow models
- Analyzing meteorological measurements and numerical weather prediction model outputs for wind power plants.
- Approving domestic component in wind turbines

Publications

- Işık Çetin I., "Effects of Numerical Weather Predictions on Wind Power Forecasts", MS Thesis, 2018 2.
- Işık Çetin I., Yücel I., "CMIP6 Multi-model Ensemble Development for Future Offshore Wind Resources of Türkiye", 10th Int. Atmospheric Science Conferences, 2022 3.
- Irem I. Cetin, Ismail Yucel, Soner Ç. Bağçaci, M. Tuğrul Yilmaz, "Climate Change Impacts On Wind Energy Resource Of Türkiye Usıng High-Resolutıon WRF Model with the Ensemble of CMIP6 GCMS", Wind Energy Science Conference-2023
- Işık Çetin, İ. (2023). Potential impacts of climate change on wind energy resources in Türkiye.

Certification

- Offshore Wind Energy Course in Technical University of Denmark Riso Campus (09-21.09.2019-11-22.11.2019)
- Gender Equality and Human Rights in Climate Action and Renewable Energy (United Nations)
- Cities and Climate Change (United Nations)
- Energy Accounting (Enerdata)
- Legislation of Renewable Energy Resources 29.04.2015-30.04.2015(16 Hours)

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- ➢ WindSIM / Innores/
- ➢ Map Info (1.09.2017-15.09.2018 (35 hours)
- ➢ MS Project (28.2.2018-02.03.2018 (18 hours)
- ➢ Emotional Intelligence for Project Managers (Linkedin)

Computer Skills

- MS Office, MS Project,
- RProject, Fortran, Python, NCL, CDO
- Linux OS,
- WindSIM,WaSP, Windographer,
- Global Mapper, Map info, QGIS
- WRF Mesoscale Model,

Personal Skills

- Climate projections, climate data analysis
- Wind resource assessment
- Micro-siting of wind turbines
- Climate Change
- Data analysis
- Project Management

Language

- English : Professional
- German: Beginner
- Turkish : Mother Tongue

Hobbies

Literature, poem, cinema, swimming. piano playing, cooking, nature