

# MD FAYSALE TAREQ

LIFE CYCLE ANALYSIS II MATERIAL FLOW ANALYSIS II SUSTAINABILITY MODELLING


## CONTACT

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## SKILLS & EXPERTIES

Material Flow Analysis, LCA & MCA, Spatial Analysis, Data Analysis, Modelling, Stakeholder Analysis, Project Management, Integrated System Design

## INDUSTRIAL EXPERIENCE

 **Research Internship**  
**PWNT** May- Sep, 2023

Machine Learning Model, Membrane Fouling Model, Proposal Writing, Data Management, Water Quality Data collection, Data Analysis

 **Project Officer**  
**Practical Action** 2018 - 2021

Community Engagement, Project Management, Socio-Technical Adaptation, Proposal Writing, Research Coordination, Documentation & Reporting

## LANGUAGES

English   
Dutch   
Bangla 

## PROFILE

A young researcher who is constantly seeking new knowledge and skills to enlighten his mind with the intent of "making a difference" in the world. My goal is to make a substantial contribution to Industrial Ecology research, putting sustainability at its core and bringing equity to society through impactful research and innovation.

## TRAINING

Doctoral Candidate in Industrial Ecology at CML

### Leiden University

2023 - 2027

PhD Project - Sustainable and Reliable Macro Steel Infrastructure (SUBLIME)

Specialisation - Macro Infrastructural Sustainability, Life Cycle Analysis (LCA), Dynamic Material Flow Analysis (DMFA), Scenario Analysis.

## EDUCATION

M. Sc. in Urban Environmental Management

### Wageningen University & Research

2021 - 2023

Specialization – Urban System Engineering

M. Sc. in Renewable Energy Technology

### University of Dhaka

2018 - 2020

Specialization – Bio-energy technology

M. Sc. in Environmental Science

### Khulna University

2017 - 2018

B. Sc. in Environmental Science

### Khulna University

2012 - 2016

## SOFTWARE SKILLS

- STAN 2.0
- Open LCA
- Arc GIS Pro
- Python & R
- SPSS
- Photoshop & Illustrator

## ACHIEVEMENTS

- Anne van den Ban Fellowship (2021-2023), Wageningen University and Research, Netherlands
- Finalist of Urban Greenhouse Challenge- 2022, Organized by WUR Student Challenge & University of British Columbia
- Finalist of BlueCity Circular Challenge 2022: Rijnland waterschap
- Sustainable Energy Innovation Research Grant 2019 - Sustainable And Renewable Energy Development Authority (SREDA)
- Winner of Climathon Dhaka 2018 in Waste Management Theme Track

## REFERENCES

### Dr. Arnold Tukker

Professor

Leiden University

✉ tukker@cml.leidenuniv.nl

### Dr. Kamonashish Halder

Lecturer

Wageningen University and Research

✉ kamonashish.halder@wur.nl

## RESEARCH EXPERIENCE

### Ultrafiltration Membrane Performance Optimization by Using Machine Learning Algorithm

MSc Internship Project

Membrane Research Unit

PWNT R&D centre, Andijk, NL

### Drinking Water Demand Forecasting and Alternative Water Source Assessment in Dhaka

MSc Thesis Project (A collaborative research of VEI & WUR)

Grade: 9.00 on a scale of 10.00

Environmental Technology Department

Wageningen University and Research

### Production and characterization of bio-oil from non-edible Jarul (*Lagerstroemia speciosa*) seed and a study of biofuel sector development in Bangladesh

MSc Thesis Project (2019-2020)

Applied Chemistry Laboratory, University of Dhaka

### Participatory Research and Ownership with Technology, Information, and Change (PROTIC)

Action Research Project (2018)

A collaborative project of Oxfam Bangladesh and Monash University

### Factor Influencing Tradition of Smokeless Tobacco Use in Rural Communities of Bangladesh

Research Project (2017)

Environmental Science Discipline, Khulna University

## PUBLICATIONS

- Patwary, M. M., Dzhambov, A., Disha, A. S., Bardhan, M., Haque, M. Z., **Tareq, M. F.**, ... & Parkinson, C. (2022). Exposure to nature during the COVID-19 pandemic and the associated effect on mental health: a systematic review with meta-analysis. *The Lancet Planetary Health*, 6, S20.
- Hassan, M., Bhuiyan, M. A. H., **Tareq, M. F.**, Bodrud-Doza, M., Tanu, S. M., & Rabbani, K. A. (2021). Relationship between COVID-19 infection rates and air pollution, geo-meteorological, and social parameters. *Environmental monitoring and assessment*, 193(1), 1-20.
- **Tareq, M. F.** (2017). Acceptance and willingness to pay for pv solar electricity: survey evidence from southern part of Bangladesh. In *International Conference on Mechanical Engineering and Renewable Energy*, Chittagong, Bangladesh (p. 7).