

Assignment Letter/Surat Tugas

No. AL/ARCS/493/XI/2021
 Date November 21, 2021
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 Doc. Type Main Document/ *Dokumen Utama*

Dena Hendriana, B.Sc., S.M., Sc.D

Activity Assignment

Penugasan Kegiatan

Director of Academic Research and Community Services

Direktur Lembaga Penelitian Akademik dan Pengabdian kepada Masyarakat

In consideration of:

His appointment as Director of Academic Research and Community Services of Swiss German University under Decree nr. SK/020/HR/XI/19, dated November 18th, 2019

Mengingat:

Pengangkatannya sebagai Direktur Lembaga Penelitian Akademik dan Pengabdian kepada Masyarakat dengan SK pengangkatan no. SK/020/HR/XI/19, tertanggal 18 November 2019

Herewith gives the task to:

Name : Dena Hendriana, B.Sc., S.M., Sc.D
 Position : Head of Master Mechanical Engineering Study Program

Dengan ini menugaskan kepada:

Nama : Dena Hendriana, B.Sc., S.M., Sc.D
 Posisi : Kepala Program Studi Magister Teknik Mesin

To become a speaker with the Community Service activity on the following below:

Untuk menjadi pembicara dengan kegiatan pengabdian kepada masyarakat berikut di bawah ini:

| Nr. | Activity/ <i>Kegiatan</i> | Organizer/ <i>Penyelenggara</i> | Day & Date/ <i>Hari & Tanggal</i> | Venue/ <i>Tempat</i> |
|-----|--|---------------------------------|---|-------------------------|
| 1. | Identification and Measurement of Potential Renewable Energy | PT. United Tractors Tbk | Monday, 22 November 2021 13.00 – 16.30 WIB | Online Video Conference |

The appointed shall accomplish the task in responsible ways in line with the related guidelines and other regulations given by SGU.

Pihak yang bersangkutan harus melaksanakan tugas dan tanggung jawab sebaik-baiknya, sesuai dengan petunjuk dan peraturan dari SGU.

Assignor/ *Pemberi Tugas:*

**Organizer's Chop&Signature/
 Stempel&Tanda tangan Penyelenggara**



Kholis Abdurachim Audah, M.Sc, Ph.D
 Director of Academic Research and Community Services
Direktur Lembaga Penelitian dan Pengabdian Kepada Masyarakat

PT UNITED TRACTORS Tbk

 (.....Himawan Sutanto.....)

IDENTIFICATION AND MEASUREMENT OF POTENTIAL RENEWABLE ENERGY

SESSION 1

SENIN

22

NOVEMBER

2021

13:00-15:30 WIB

Opening Speech



EDHIE SARWONO

Director of Human Capital, Environment,
Social Responsibility, Security,
General Affairs & Communication

Pemateri



Dr. Ir. GEMBONG BASKORO, M.Sc

Lecturer of Master
of Mechanical Engineering

Pemateri



DENA HENDRIANA, B.Sc., S.M., Sc.D.

Head of Master
of Mechanical Engineering

Pemateri



Dr. Ir. HENRY NASUTION, M.T., IPP

Deputy Head of Master
of Mechanical Engineering

Join Zoom
Meeting ID
83812310092
Passcode:
UTCORPU



SCAN DISINI
UNTUK JOIN

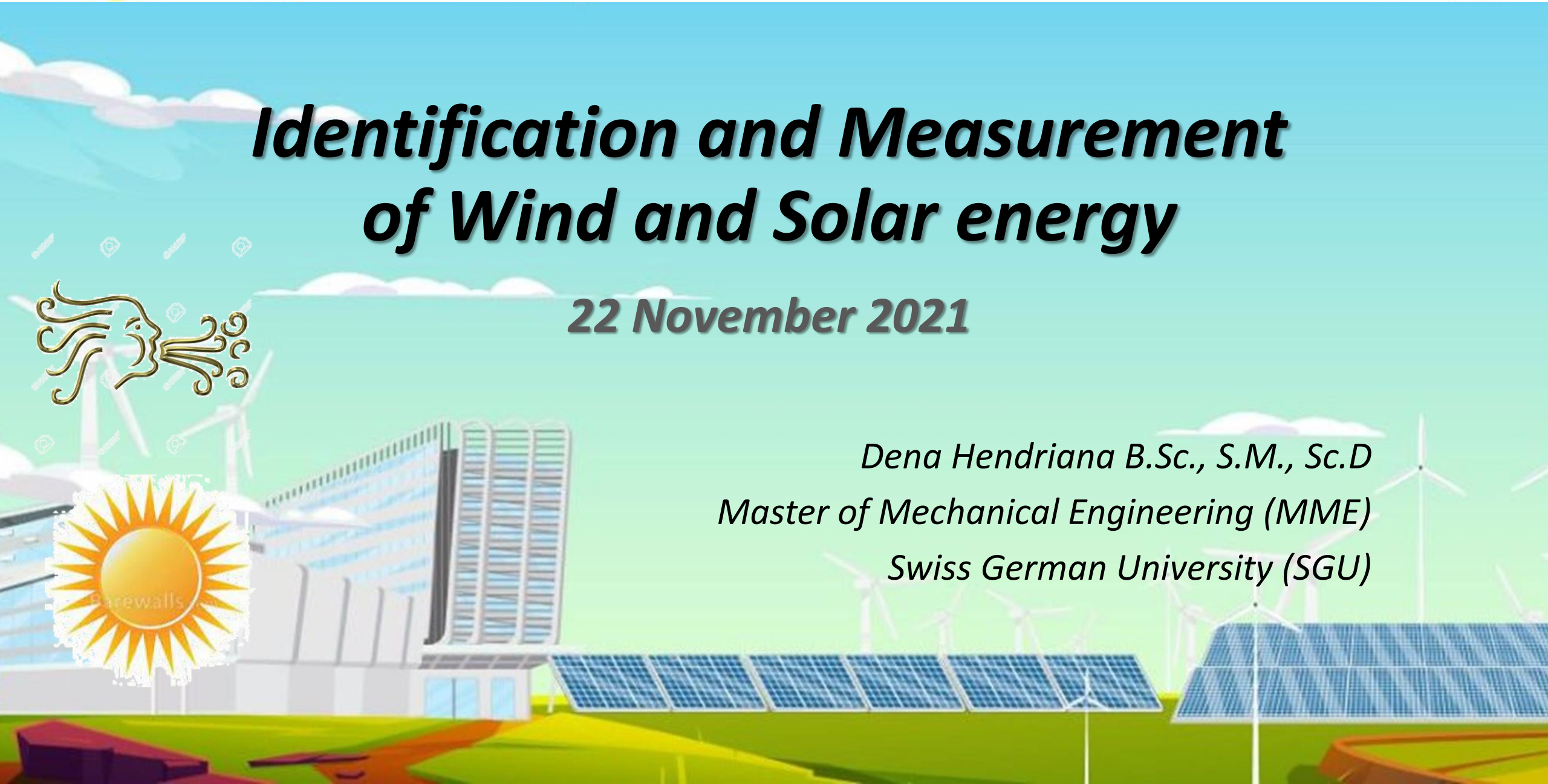
Identification and Measurement of Wind and Solar energy

22 November 2021

Dena Hendriana B.Sc., S.M., Sc.D

Master of Mechanical Engineering (MME)

Swiss German University (SGU)





Biodata

Dena Hendriana, B.Sc., S.M., Sc.D.

Education

- Bachelor of Science, Northeastern University, Boston, USA, 1992
- Master of Science, Massachusetts Institute of Technology, Cambridge, USA, 1994
- Doctor of Science, Massachusetts Institute of Technology, Cambridge, USA, 1998



Working Experience

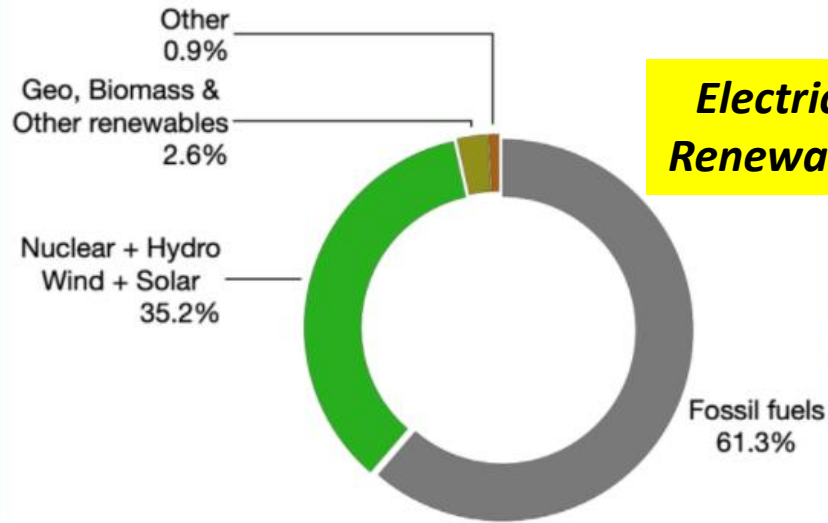
- Swiss German University, Tangerang, 2015 – now
- Surya University, Tangerang, 2013 – 2015
- Ford Motor Company, Michigan, USA, 2011 – 2013
- EXA Corporation, Michigan, USA, 2005 – 2011
- PT. JSU, Depok, 2003 – 2005
- Chrysler, Michigan, USA, 2000 – 2003
- General Motors, Michigan, USA, 1998 – 2000



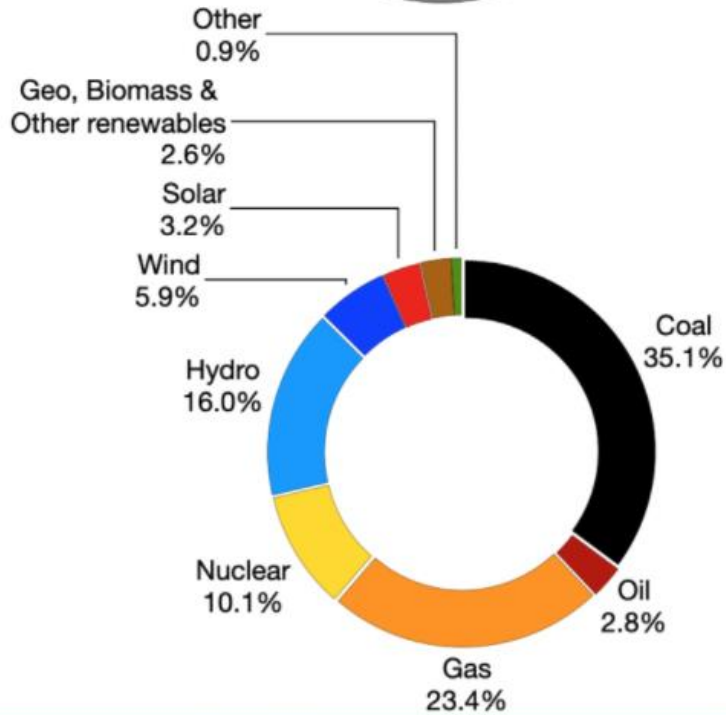
Expertise

- Computational Fluid Dynamics
- Energy Conversion
- Mechatronics

World electricity generation, 2020. Data: bp(2021).



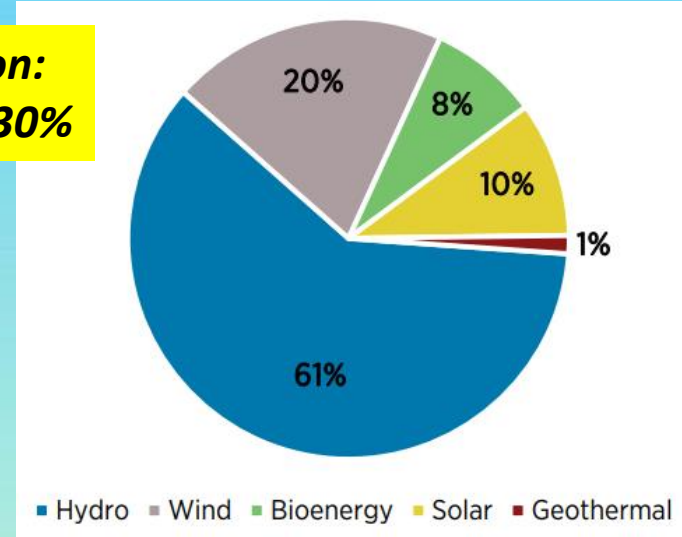
**Electricity Generation:
Renewable Energy < 30%**



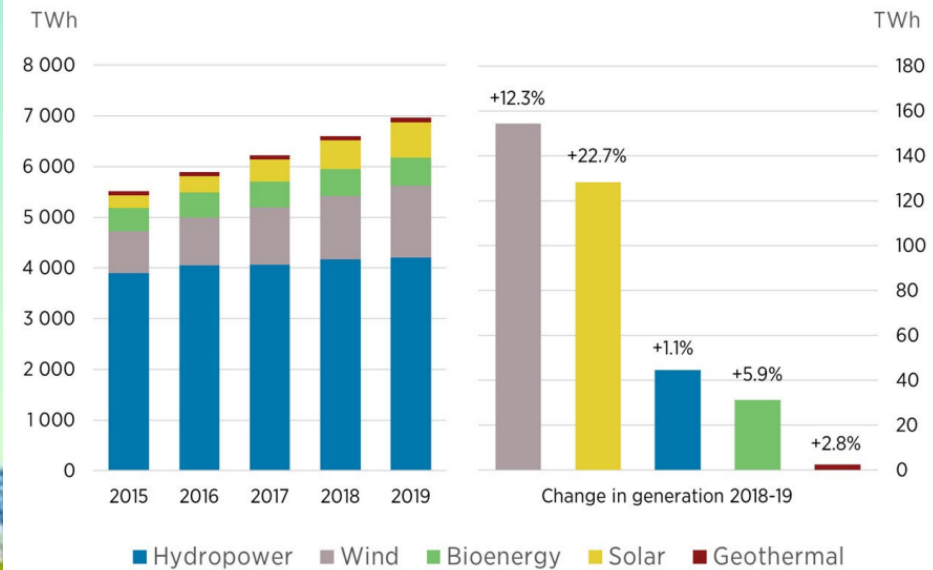
Source: www.worldenergydata.org

World renewable electricity generation by energy source (2019)

Source: International Renewable Energy Agency (IRENA)



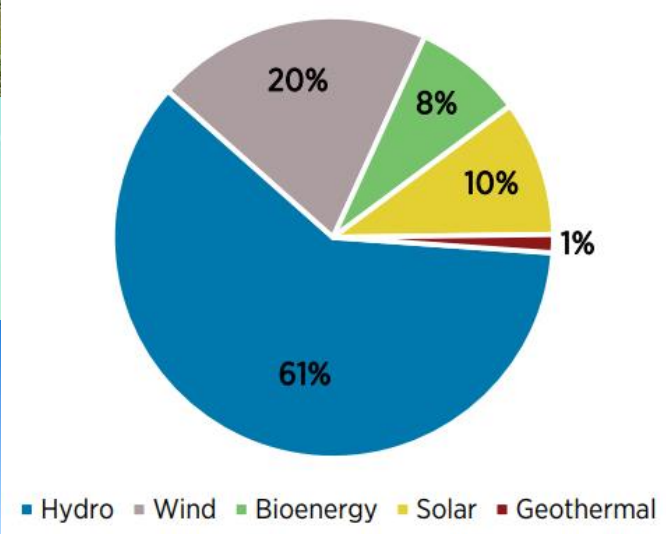
Growth in renewable electricity generation



Source: International Renewable Energy Agency (IRENA)



World wind energy majority from OnShore Wind Turbines.



Solar energy from On roof, On Lake, On Land.

