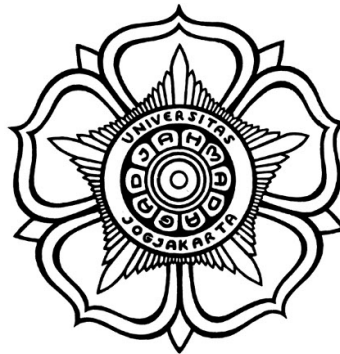


**OPTIMISASI *MULTI-OBJECTIVE* KAPASITAS DAN
PENEMPATAN SISTEM PENYIMPANAN ENERGI DENGAN
MEMPERTIMBANGKAN FAKTOR KETIDAKPASTIAN**

TESIS



THE SUSTAINABLE DEVELOPMENT GOALS

Industry, Innovation and Infrastructure

Affordable and Clean Energy

Climate Action

Rebekka Siswandina Sari

23/526292/PTK/15437

**PROGRAM MAGISTER PROGRAM STUDI TEKNIK ELEKTRO
DEPARTEMEN TEKNIK ELEKTRO DAN TEKNOLOGI INFORMASI**

FAKULTAS TEKNIK

UNIVERSITAS GADJAH MADA

YOGYAKARTA

2025

**MULTI-OBJECTIVE OPTIMIZATION OF ENERGY STORAGE
SYSTEM CAPACITY AND PLACEMENT CONSIDERING
UNCERTAINTY FACTORS**

THESIS



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24/549616/STK/01245

**POSTGRADUATE PROGRAM OF ELECTRICAL ENGINEERING
DEPARTMENT OF ELECTRICAL ENGINEERING AND
INFORMATION TECHNOLOGY
FACULTY OF ENGINEERING
GADJAH MADA UNIVERSITY
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KETIDAKPASTIAN**

Rebekka Siswandina Sari

23/526292/PTK/15437

telah disetujui Tim Pembimbing

Pembimbing Utama



Prof. Ir. Sarjiya, S.T., M.T., Ph.D., IPU.

Pembimbing Pendamping



Ir. Lesnanto Multa Putranto, S.T., M.Eng., Ph.D., IPM., SMIEEE.



THESIS

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CAPACITY AND PLACEMENT CONSIDERING UNCERTAINTY FACTORS**

Rebekka Siswandina Sari

23/526292/PTK/15437

has been approved by Supervisor team

Supervisor



Prof. Ir. Sarjiya, S.T., M.T., Ph.D., IPU.

Co-Supervisor



Ir. Lesnanto Multa Putranto, S.T., M.Eng., Ph.D., IPM., SMIEEE.



TESIS

**OPTIMISASI MULTI-OBJECTIVE KAPASITAS DAN PENEMPATAN SISTEM
PENYIMPANAN ENERGI DENGAN MEMPERTIMBANGKAN FAKTOR
KETIDAKPASTIAN**

Dipersiapkan dan disusun oleh

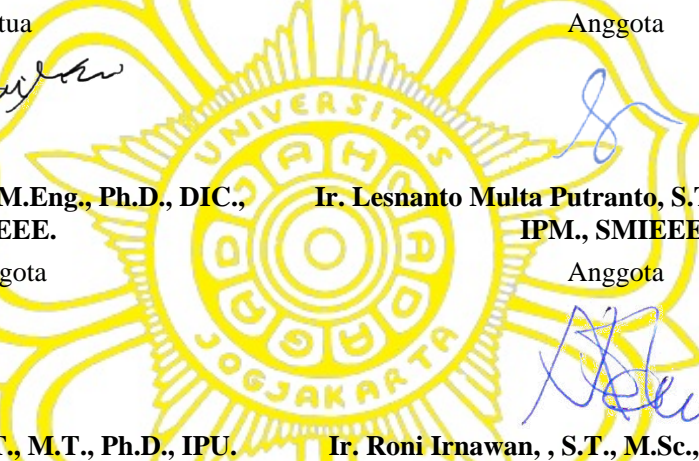
Rebekka Siswandina Sari


23/526292/PTK/15437

Telah dipertahankan di depan dewan penguji

Pada tanggal : **24 Juli 2025**

Susunan Dewan Penguji



Ketua	Anggota
	
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Anggota	Anggota
	
Prof. Ir. Sarjiya, S.T., M.T., Ph.D., IPU.	Ir. Roni Irnawan, S.T., M.Sc., Ph.D., SMIEEE.

Tesis ini telah diterima sebagai salah satu persyaratan
untuk memperoleh gelar Magister

Tanggal: **31 Juli 2025**

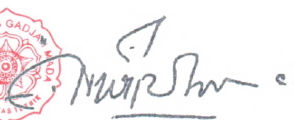
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THESIS

**MULTI-OBJECTIVE OPTIMIZATION OF ENERGY STORAGE SYSTEM
CAPACITY AND PLACEMENT CONSIDERING UNCERTAINTY FACTORS**

Written by

Rebekka Siswandina Sari

23/526292/PTK/15437

Has been defended in front of the Board Examiners

On : **July 24, 2025**

Chief of examiner



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Examiner



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Examiner



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Examiner



Ir. Roni Irnawan, S.T., M.Sc., Ph.D., SMIEEE.

This Thesis has been submitted in partial fulfillment of the requirements
for the degree of Master of Engineering

On: **July 31, 2025**

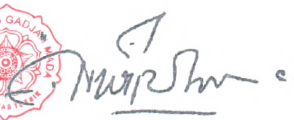
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