

DR1001287

**SHORT-TERM WIND SPEED FORECASTING BY TIME-SERIES MODELING  
FOR RAYONG, THAILAND**

**MR. WILLIAM MWANGI KAIGWARA**

**ID: 54910504**

**A THESIS SUBMITTED AS A PART OF THE REQUIREMENTS  
FOR THE DEGREE OF MASTER OF SCIENCE  
IN ENERGY TECHNOLOGY AND MANAGEMENT**

**THE JOINT GRADUATE SCHOOL OF ENERGY AND ENVIRONMENT  
AT KING MONGKUT'S UNIVERSITY OF TECHNOLOGY THONBURI**

**2<sup>ND</sup> SEMESTER 2012**

**COPYRIGHT OF THE JOINT GRADUATE SCHOOL OF ENERGY AND ENVIRONMENT**

Short-Term Wind Speed Forecasting by Time-Series Modeling for Rayong, Thailand

Mr. William Mwangi Kaigwara

ID: 54910504

A Thesis Submitted as a Part of the Requirements  
for the Degree of Master of Science  
in Energy Technology and Management


The Joint Graduate School of Energy and Environment  
at King Mongkut's University of Technology Thonburi

2<sup>nd</sup> Semester 2012

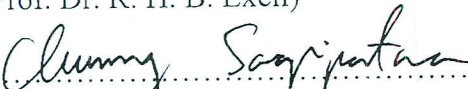
Thesis Committee

  
.....  
(Assoc. Prof. Dr. Kasemsan Manomaiphiboon)

Advisor

  
.....  
(Prof. Dr. R. H. B. Exell)

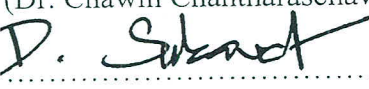
Member

  
.....  
(Assoc. Prof. Dr. Chumnong Sorapipatana)

Member

  
.....  
(Dr. Chawin Chantharasenawong)

Member

  
.....  
(Dr. Dusadee Sukawat)

External Examiner

**sis Title:** Short-Term Wind Speed Forecasting by Time-Series Modeling for Rayong, Thailand

**udent's name, organization and telephone/fax numbers/email**

William Mwangi Kaigwara

Joint Graduate School of Energy and Environment (JGSEE)

Mongkut's University of Technology Thonburi (KMUTT)

Pracha Uthit Rd., Bangmod, Tungkru, Bangkok 10140 Thailand

Telephone (Computational Lab): +66 2 470-7332

Email: [willy3mk@gmail.com](mailto:willy3mk@gmail.com)

**Supervisor's name, organization and telephone/fax numbers/email**

Assoc. Prof. Dr. Kasemsan Manomaiphiboon

Joint Graduate School of Energy and Environment (JGSEE)

Mongkut's University of Technology Thonburi (KMUTT)

Pracha Uthit Rd., Bangmod, Tungkru, Bangkok 10140 Thailand

Telephone (Office): +66 2 470-7331

Fax: +66 2 470-7337

Email: [kasemsan\\_m@jgsee.kmutt.ac.th](mailto:kasemsan_m@jgsee.kmutt.ac.th)