## DEVELOPMENT OF LIFE CYCLE ENVIRONMENTAL IMPACT

## ASSESSMENT MODEL BY ENDPOINT ANALYSIS

## CHANTIMA REWLAY-NGOEN

## DOCTOR OF ENGINEERING

IN ENERGY ENGINEERING

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CHIANG MAI UNIVERSITY

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CHANTIMA REWLAY-NGOEN

A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF DOCTOR OF ENGINEERING IN ENERGY ENGINEERING

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#### CHANTIMA REWLAY-NGOEN

THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF DOCTOR OF ENGINEERING IN ENERGY ENGINEERING

#### **EXAMINING COMMITTEE**

Asst.Prof.Dr. Pomthong Malakul Na Ayudhaya

Prof. Dr. Tanongkiat Kiatsiriroat

Assoc. Prof. Dr. Yongyut Laosiritaworn

Patrop Pholehan MEMBER Asst. Prof. Dr. Patiroop Pholchan

Natum Mays MEMBER

Dr. Natanee Vorayos State Samathagul MEMBER

Asst. Prof. Dr. Sate Sampattagul

#### THESIS ADVISORY COMMITTEE

Aatt Dom attogul ADVISOR Asst. Prof. Dr. Sate Sampattagul

Prof. Dr. Tanongkiat Kiatsiriroat

Asst. Prof. Dr. Patiroop Pholchan

Mataun Voryn Dr. Natanee Vorayos

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