

ACKNOWLEDGEMENT

I would like to pay my sincere gratitude to my advisor, Assistant Professor Nipon Ketjoy Dr.-Ing and co-advisor Dr. Chatchai Sirisamphanwong. I am thankful for their supervision, care, and inspiration throughout the period at SERT.

I am thankful to The Royal Thai Government as they provided scholarship for completion of Degree and for their financial support for research work through Thailand International Development Cooperation Agency (TICA), Ministry of Foreign Affairs.

I appreciate & acknowledge support of Dr. Sukruedee Sukchai, Director SERT, all faculty members and staff at the School of Renewable Energy Technology (SERT), further I want to offer special thanks to my family and classmates for their understanding and support.

Finally, I would like to thank all others for their support in accomplishing this thesis which could not be named in this acknowledgement.

Tariq Aziz