





















Appendix E: Other Relevant Parameters.

Coal LHV	22.73 GJ/t
Biomass combustion cost	\$5000/Mt
Biomass purchase cost	\$2000/Mt
Transportation cost	\$200/km
Biochar application cost	\$5000/Mt
Coal combustion emissions	3.16 Mt CO <sub>2</sub> /Mt
Transportation emissions	0.0001 Mt CO <sub>2</sub> /km
Demand	100 GJ/y

## Biographies

**Jayne San Juan** is currently a graduate student in the Department of Industrial Engineering in De La Salle University-Manila, Philippines.

**Charle Sy** is an Associate Professor in the Department of Industrial Engineering at De La Salle University, Manila, Philippines. She earned her B.S. and M.S. in Industrial Engineering from the same university. Meanwhile, she obtained her PhD in Industrial and Systems Engineering in the National University of Singapore, Singapore. She has published in Scopus-indexed journals and conference papers and had completed research projects in the energy, service and semiconductor industries. Her research interests include optimization under uncertainty, energy networks, supply chains, and system dynamics.