Preface

We would like to present, with great pleasure, the second issues from volume one of Indonesian Journal of Life Cycle Assessment and Sustainability (IJoLCAS). This journal is published by Indonesian Life Cycle Assessment Network, and is devoted entirely to life cycle assessment and closely related methods to assess sustainability.

This journal was envisioned and founded to represent the growing needs of instrument to assess the ecological burdens and impacts throughout the consecutive and interlinked stages of a product system, from raw material acquisition or generation from natural resources, through production and use to final disposal. Its vision is to become a forum for life cycle assessment and sustainability research addressing the views all of researchers and practitioners in life cycle assessment and sustainability field, especially in Indonesia and Asian region.

IJoLCAS focuses on original high-quality research in the environmental impacts of goods and services. The Journal is intended as a forum for practitioners and researchers to present new insight or knowledge, such as novel methodology. In its later development, life cycle assessment has expanded to cover social and economic aspects as well.

In that regard, IJoLCASaccepts contributions on the following topics: life cycle assessment, life cycle inventory, life cycle impact assessment, data and databases, life cycle sustainability assessment, sustainability indicators, social life cycle assessment, life cycle costing, environmental footprint, carbon footprint, water footprint, land footprint, chemical footprint, life cycle perspective in environmental management system, life cycle management, life cycle engineering, input-output analysis, substance and material flow analysis, industrial ecology, circular economy, and cleaner production.

This inaugural volume is devoted to life cycle assessment research and the application of such research, which naturally complement each other. In this spirit, the journal will be published regularly twice a year in January and July. This volume comprises five manuscripts. Specifically, the presented articles can be categorized into the following groups:

- Critical review
- Life cycle perspective and assessment
- Water and energy footprint

We are very thankful to authors who contribute to this second issue of the journal. We are certain that this issue will be followed by many others, reporting new development in the life cycle assessment research. This issue would not have been possible without the great support of the Editorial Board members, and anonymous reviewers and we would like to express our sincere thanks to all of them.

It is our hope that these fine collections articles will be a valuable resource for Indonesian Journal of Life Cycle Assessment readers and will stimulate further research into the vibrant area of Life Cycle Assessment, especially in Indonesia and Asian region.

South Tangerang,

Volume 1, Nomor 2, July 2017

In this issue:	
Challenges for Life Cycle Assessment of Palm Oil Production System	1-9
Heinz Stichnothe ^a and Cécile Bessou ^b	
^a Thünen Institute of Agricultural Technology,Braunschweig, Germany ^b CIRAD, UPR Systèmes de pérennes, pôle ELSA, F-34398 Montpellier, France	
The Importance of Data Quality in Using LCA Approach as A Decision	10-16
Supporting Tool: Comprative Case Study between Injection Moulding	
Machines in Processing Polypropylene	
Sharah Yunihar Saputra and Jessica Hanafi	
Department of Industrial Engineering, Faculty of Science and Technology, Universitas Pelita Harapan, Tangerang Indonesia	
Life Cycle Analysis of Carbon Dioxide Emission Utilization in Enhanced Oil Recovery (EOR) Activity	17-27
Akhmad Hidayatno, Armand Omar Moeis, Achmad Yusaq Faiz Fadi	
Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Jakarta, Indonesia	
A Framework to Measure Water and Energy Footprint at Demand Side	28-37
Maria Anityasari, Mar'atus Sholihah, Diesta Iva Maftuhah	
Department of Industrial Engineering, Institut Teknologi Surabaya (ITS), Surabaya, Indonesia	
The Case Study of Life Cycle Perspective in Ready-mix Industry	38-46
Yosephine Dwi Martina Widowati	
Technical Committee, Center for Environment and Forestry Standardization, Ministry of Environment and Forestry, Jakarta, Indonesia	