國立臺北大學自然資源與環境管理研究所 104 學年度第二學期『清潔生產與工業生態』

課程進度(15):工業生態學分析工具:能源、水資源與土地利用 Analysis of Technological Systems: Energy, Water, and Land

• ENERGY AND INDUSTRIAL ECOLOGY (G&A, Chp.19)

□ Energy and Organisms
□ Energy and the Product Life Cycle
□ Energy Cycle for Substance
□ National and Global Energy Analysis
□ Energy and Mineral Resources
□ Energy and Industrial Ecology
WATER AND INDUSTRIAL ECOLOGY (G&A, Chp.20)
□ Water and Organisms
□ Water and Products
□ The Water Footprint
⇒ Product Water Footprint:
Green Water Footprint
Blue Water Footprint Grey Water Footprint
□ Water Quality
☐ Industrial Ecology and Water Futures
industrial Ecology and water rutures
URBAN INDUSTRIAL ECOLOGY (G&A, Chp.21) RESOURCE INTENSITY
□ Urban Metabolism
□ Urban Metabolic Flows
□ Urban Metabolic Stocks
□ Urban Metabolic Histories
□ Urban Mining
□ Resource Recovery
□ Resource Intensity
□ Material Input per Unit of Service (MIPS)
⇒ Ecological Rucksack
⇒ Eco-Toxicity per Unit of Service (TOPS)
⇒ Land Use per Unit of Service (Conventional Ecological Footprint)
⇒ Energy Intensity
⇔ Carbon (Greenhouse Gas) Intensity
HOMEWORK ASSIGNMENT #6 (Due 2016/06/14):

請整理 ISO 14046:2014 及 ISO/TS 14067:2013 國際標準之章節 (Clause)內容。