

# - Student worksheet for case study - Sludge treatment in T. Park



## Generic green skills

### Cognitive competencies:

- Innovation skills to identify opportunities and create new strategies to respond to green challenges
- Understanding the complexity and interconnectedness of sustainable development issues and challenges

### Intrapersonal competencies:

- Adaptability and transferable skills that help workers learn and apply the new technologies and processes required to green their jobs

### Technological competencies:

- Management systems (waste, energy, water)



## Learning objective

### You will be able to:

1. Understand the principle of 'waste-to-usableness' in the closed-loop economy.
2. Identify what changes can be made in a selected industry sector to move towards a closed-loop model.



## Format

Individual learning and field trip



## Resources needed

A4 paper, case study



## Time required

45 mins in class; a half-day field trip



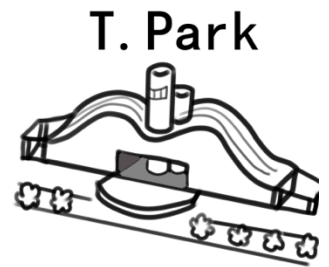
## Assessment

### You will be assessed based on:

An individual field trip report (up to 1500 words with sketches and photos).

### Pre-field trip preparation in class:

1. Small group discussion
  - a. Read the case study carefully and think about how T. Park is a closed-loop enterprise (see the concept information sheet).
  - b. Discuss this with members of your group.
2. Plan a field trip for your group
  - a. Check out the activities or workshops that are coming up at T. Park and choose at least one that your group would like to attend (e.g. make a concrete amplifier class). Book this online.
  - b. Schedule a time to visit different facilities in T. Park, such as T. cafe, T. theatre and T. roof in addition to the activity your group attends.



### During the field trip:

1. Take some photos of things that impressed you and make brief notes in your notebook.
2. Identify at least two ideas or good designs related to '**waste-to-energy**' or '**waste-to-usableness**' that you think could be applied in the industry sector of your choice.
3. Share your reflections and discuss these ideas with your group.



### After the field trip:

You are required to submit a field trip report, which includes:

1. A description of activities you attended and your reflections on them: What did you learn? What did you find interesting?
2. A description of the facilities you looked at and your reflection on what aspects of the closed-loop model they are related to (see the concept information sheet).
3. The results of your group discussion about how ideas identified during your visit could be applied in the industry sector of your choice to illustrate what kind of changes could be made in order to **transfer waste into something useable to close a loop**.

### Reference:

Story | T · PARK. Retrieved from <https://www.tpark.hk/en/story/>