



M.SC, Semester III.

Treatment of Organic Waste



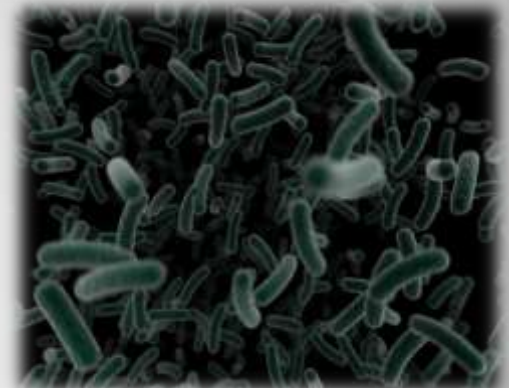
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Outline

- **Introduction**
- **Category of Organic Waste**
- **Treatment Methods**
- **Composting-free Technology**

What is Organic?

- Organic matter is matter that has come from a **once-living organism**.
- Organism: Animals, plants and microorganisms
- Once-living: Either live ones or dead bodies



Introduction

What is Compost?

Compost is the process that organic matter been **decomposed** and recycled as a fertilizer and soil amendment.

Composting requires simply piling up waste **outdoors** and waiting for **months**.



Introduction

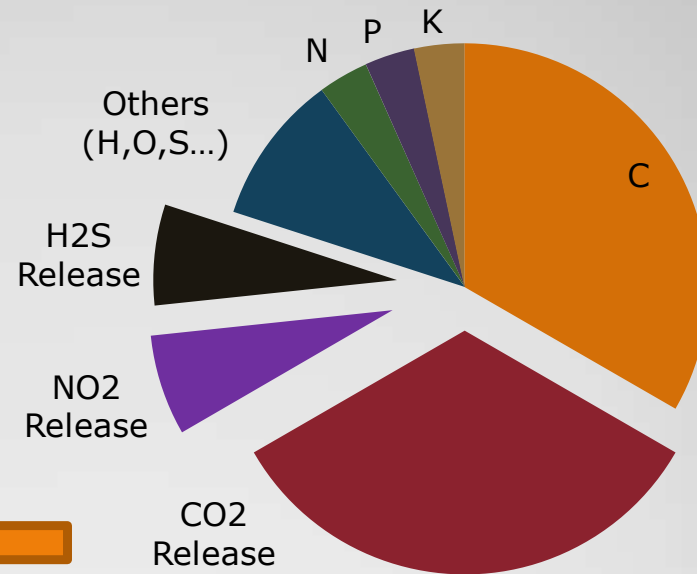
Carbon Emission Issue

- Compost apply **micro-organisms** to "**decompose**" organic matter.
- CO₂ released during fermentation period
- Huge loses of carbon (About 50~60%)

Greenhouse
Effect



Atmosphere



Introduction