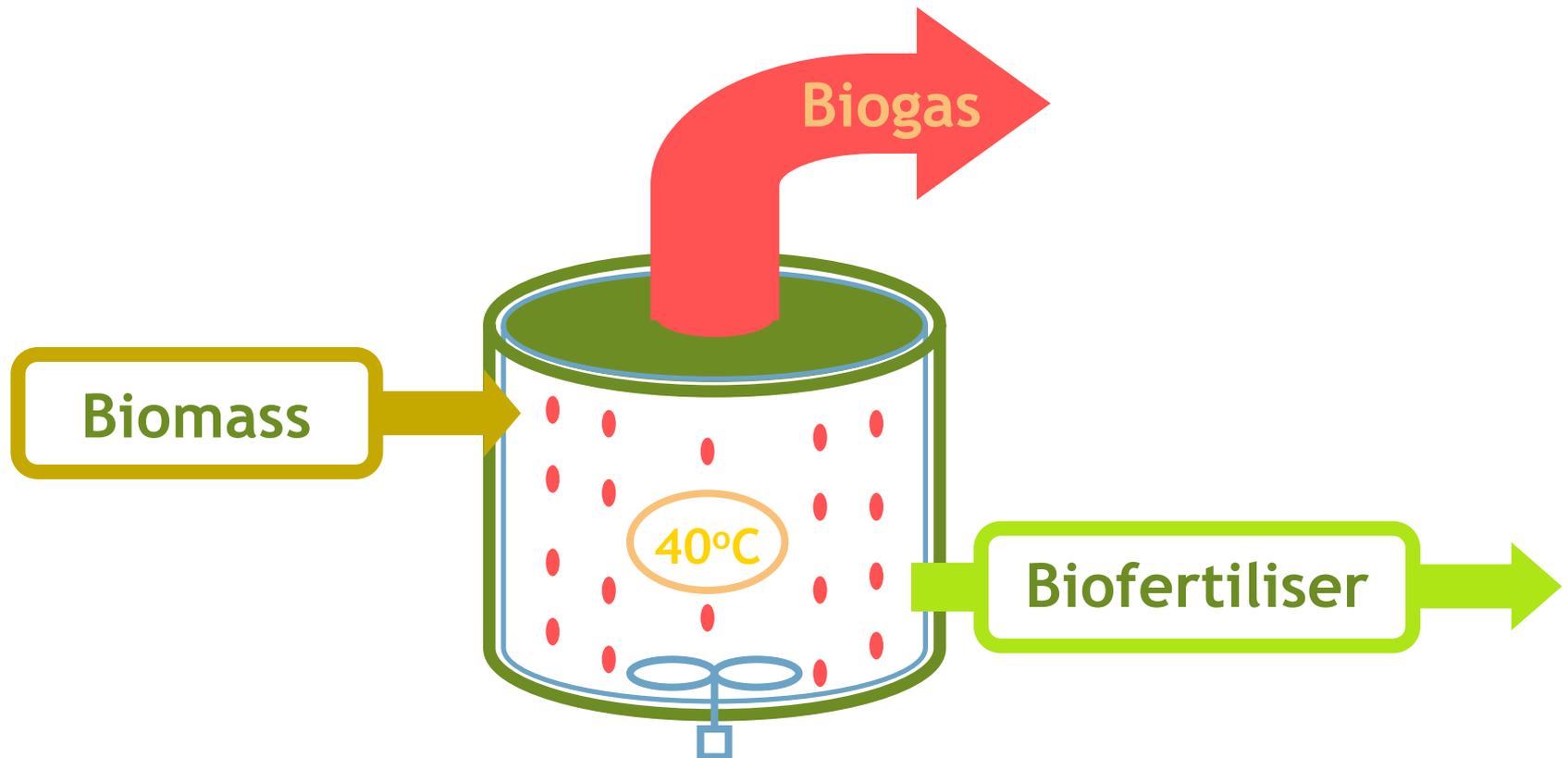


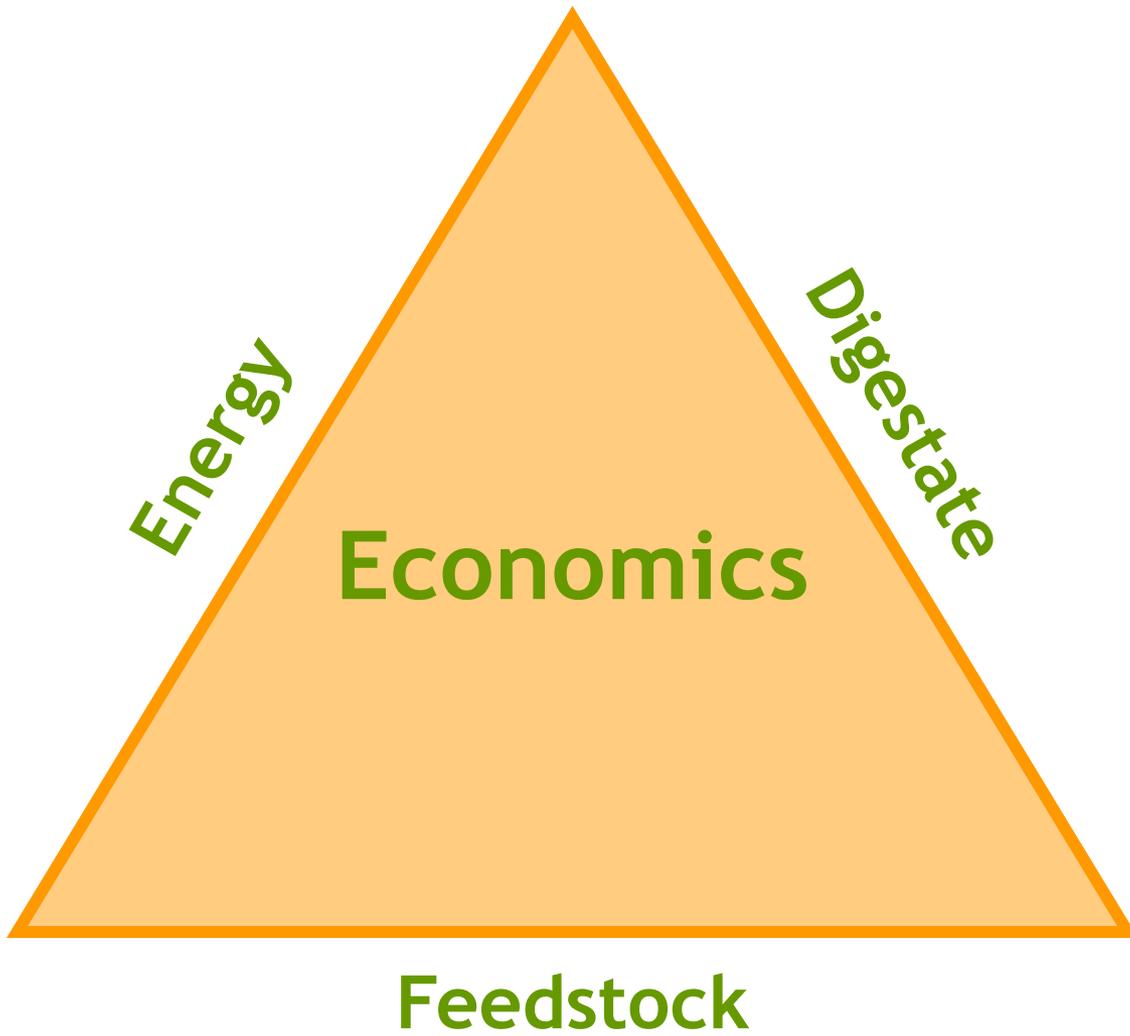
Introduction to Anaerobic Digestion Economics

Michael Chesshire

University of Southampton
&
Evergreen Gas Ltd

Anaerobic digestion - a natural biological process





AD Economics

The economics of the installation and operation of full-scale anaerobic digesters are clearly very important for commercial applications.

The aspects which need to be considered:-

- Capital cost;
- Operating cost;
- Income;
- Operating costs; and
- Financial model

Economic Sensitivity

- Types of feedstock
- Costs of feedstock or gate fee
- Digestate value or cost
- CHP electrical efficiency
- CHP load factor
- Heat use
- Other energy use
- Value of electricity (€. kWh^{-1})
- Value of heat (€. kWh^{-1})
- Other energy value
- Capital cost
- Operating cost.

Spreadsheets

- The rest of the lecture uses spreadsheets....

Thank
You

