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**Technical specification for solar-assisted composting of
perishable waste in rural areas**

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Table of Contents

Preface	III
1 Scope	1
2 Normative References	1
3 Terms and Definitions	1
4 Site Selection and Design	2
5 Process Requirements	3
6 Safety and Hygiene	5
7 Operation Management 5.	5
8 Verification Methods	5
Appendix A (Informative) Classification of China's Total Solar Energy Resources	7
Appendix B (Informative) Processing Capacity of Solar-Assisted Composting Facilities	8
Appendix C (Informative) Schematic Diagram of Cross-Sectional Structure of Composting Unit	9
Appendix D (Informative) Leachate Collection Tank Volume Design	10
Appendix E (Informative) Record Form 11 of the Operation Status of Solar-Assisted Composting Facilities for Rural Perishable Waste References	12

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents". Drafting.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

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Solar-assisted composting of perishable rural waste Technical Specifications

1 Scope

This document specifies the site selection and design, process requirements, safety and hygiene, and operation management of solar-assisted composting treatment for rural perishable waste.

The theory describes the corresponding verification methods.

This document applies to the design, operation, and management of solar-assisted composting facilities for rural perishable waste.

2 Normative references

GB 14554

GB 20287

NY/T 3442

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 perishable waste

Perishable household waste containing organic matter.

Note. This mainly includes leftover food, discarded vegetables, fruit peels, and withered branches, leaves, and grass in front of and behind the house.

3.2

For the buildings used for composting, certain measures should be taken, such as installing

a translucent roof on the sunny side to utilize sunlight to raise the temperature of the compost pile.

This facility aims to accelerate the aerobic composting and maturation of easily perishable waste, thereby achieving harmless treatment of easily perishable waste through composting.

3.3

After being crushed and pre-treated, the composting materials are placed into the composting unit and remain in a relatively static state without external force, relying on natural ventilation or strong airflow.

The ventilation and oxygen supply system completes the process of biological aerobic degradation and decomposition.

3.4 In an active state, it completes the process of biological aerobic degradation and decomposition

After being crushed and pretreated, the composting materials are fed into the composting unit, where they are continuously or intermittently transported by a forced ventilation and oxygen supply system and a mechanical mixing system.