

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

HJ 2050-2015

**The guidelines of documentation for environmental engineering
design**

环境工程设计文件编制指南
(English Translation)

Issued on: November 20, 2015

Implemented on: March 1, 2016

Issued by: Ministry of Ecology and Environment

Table of Contents

Preface

1 Scope of application

2 Normative reference documents

3 Terms and definitions

4 General provisions

5 Feasibility study report content and preparation requirements

6 Preliminary design file content and preparation requirements

Foreword

In order to carry out the "Environmental Protection Law of the People's Republic of China", standardize the content and depth of environmental engineering design documents.

Safety of environmental engineering design quality, the development of this guide.

This guide sets out the feasibility study report on environmental engineering, preliminary design documents, construction drawings and project budget documents.

begging.

This guide is a guide document.

This guide is for the first time.

This guide is organized by the Ministry of Environmental Protection Technology Standards Division.

The main drafting of this guide. China Environmental Protection Industry Association, Guangdong Province Environmental Protection Industry Association, China Environmental Science Research Institute, Beijing Dongfang Tonghua Technology Co., Ltd., Sinosteel Group Tiancheng Environmental Protection Technology Co., Ltd., Guangdong Province Environmental Protection Engineering Research and Design Institute.

This guide is approved by the Environmental Protection Department on November 24, 2015.

This guide has been implemented since March 1, 2016.

This guide is explained by the Ministry of Environmental Protection.

Guidance on the compilation of environmental engineering design documents

1 Scope of application

This guide specifies water pollution control, air pollution control, solid waste treatment (disposal), physical pollution control, and pollution Water, site and soil remediation and other environmental pollution prevention and control project feasibility study report, preliminary design, construction drawings and project budget document content and compilation requirements.

This guide is applicable to the preparation of environmental engineering feasibility studies, preliminary design, construction drawing design and project budget documents.

Environmental engineering project approval,,, review, supervision, management and investment decision-making basis.

Implementation of the approval, filing management of environmental engineering, the project application report can refer to the guidelines on the feasibility study report documents the relevant provisions of the preparation, the initial design, construction design and project budget document content and preparation requirements should implement this guide.

Construction of the project "three simultaneous" supporting the environmental protection facilities can refer to the implementation of this guide.

Please refer to the implementation of this guide.

2 Normative reference documents

This guide refers to the following documents, which should be used when the following documents are amended.

GB/T 1.1-2009 Guidelines for standardization work Part 1. Structure and preparation of standards
Standard Terminology for Civil Building Design
General rules for the calculation of comprehensive energy consumption
GB/T 2589-2008 Terminology of Environmental Engineering Terminology
JB/T 5054 product design and design documents "Urban Public Works Design Document Preparation Depth" (2013) (Building Quality [2013] No. 57) "Urban public utility construction project economic evaluation methods and parameters" (construction standard [2008] 162)

3 Terms and definitions

The following terms and definitions apply to this guide.

Environmental Engineering Protection of the natural environment and natural resources, prevention and control of environmental pollution, restoration of the ecological environment, improvement of living environment and urban environmental quality.

Set up project and engineering facilities.

3.2 Feasibility Study

A Scientific Method to Demonstrate Technical and Economic Arrangement before Construction Project Investment Decision. Through the project-related engineering, technology, environment, Economic and social benefits and other aspects of the conditions and circumstances of the investigation, research, analysis of the construction of the advanced technology, economic Rationality and feasibility of construction, on the basis of multi-party analysis to make a comparative and comprehensive evaluation, to provide a reliable basis for project decision-making.

Preliminary design

In the program design documents based on the deepening of the design, to solve the overall, the use of functional, construction timber, technology, systems, set Alternative engineering and other aspects of the problem, in line with environmental protection, energy saving, fire, air defense requirements, and submit the project budget to meet HJ ---- -20 --the need to prepare the construction drawing design documents.

Design Drawing Design on the basis of the approved preliminary design documents carried out on the basis of the deepening of the design, the relevant professional detailed design drawings to meet the Equipment procurement, non-standard equipment production and construction needs.

3.5 Total energy consumption of treating unit pollutant

The amount of energy (including water, electricity, steam, fuel and secondary energy) to be consumed by the unit pollutants should be contaminated by the treatment unit the amount of energy consumed by the material is converted to standard coal consumption.

4 General requirements

4.1

Environmental engineering consulting, design should be consistent with national and engineering services industry and regional environmental protection laws, regulations and standards, norms Claim.

4.2

Environmental engineering consulting, design documents in addition to the provisions of the guidelines should also be consistent with the engineering services industry and regional technical documents compiled System content and depth requirements.

4.3

Environmental engineering consulting, design drawings used in the legend, symbols, codes, terms and nouns should be consistent with national, industry, Side of the existing standards, norms, requirements.

4.4

environmental engineering design is generally divided into pre-work and engineering design in two parts. Pre-work includes project proposals, pre-feasibility studies, Feasibility study, engineering design, including preliminary design and construction design. This guide includes feasibility studies, preliminary design and construction plans Three stages.

5.1 General provisions

5.1.1

The basic task of feasibility study is to carry out a comprehensive analysis of the new or re-expansion of environmental engineering, from the technical and economic point of view, and its production after the pollution control and environmental protection effects to predict, within the established range of program demonstration options to more Rational use of resources to achieve the desired environmental protection, social and economic benefits.

5.1.2

Feasibility study through the project-related engineering, technical, environmental, economic and social benefits and other aspects of the conditions and conditions Investigation, research, analysis, the need for the construction of the project, technical feasibility, size, plant (field) and economic feasibility, rationality, in the multi-program analysis on the basis of a comprehensive comparison and evaluation, and recommended construction projects.

5.1.3

Feasibility study report should meet the environmental project, the preparation of preliminary engineering design documents and environmental engineering land acquisition the need for a circle.

5.2 Feasibility study report content

5.2.1

Feasibility Study The report should consist of the following.

- A) Project overview;
- B) basis for preparation;
- C) Major contaminants and loads;