



**CGA P-37—2014**  
**GOOD ENVIRONMENTAL**  
**MANAGEMENT PRACTICES**  
**FOR THE COMPRESSED**  
**GAS INDUSTRY**

**THIRD EDITION**

## PREFACE

As part of a program of harmonization of industry standards, the Compressed Gas Association (CGA) has issued CGA P-37, *Good Environmental Management Practices for the Compressed Gas Industry*, jointly produced by members of the International Harmonization Council and originally published by the European Industrial Gases Association (EIGA) as EIGA Doc 88, *Good Environmental Management Practices for the Industrial Gas Industry*.

This publication is intended as an international harmonized standard for the worldwide use and application of all members of the Asia Industrial Gases Association (AIGA), Compressed Gas Association (CGA), European Industrial Gases Association (EIGA), and Japan Industrial and Medical Gases Association (JIMGA). Each association's technical content is identical, except for regional regulatory requirements and minor changes in formatting and spelling.

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NOTE—Technical changes from the previous edition are underlined.

NOTE—Appendices A, B, C, D, E, F, G, H, and I (Informative) are for information only.

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<b>Contents</b>	<b>Page</b>
1 Introduction.....	1
2 Scope and purpose .....	1
2.1 Scope .....	1
2.2 Purpose .....	1
3 Definitions.....	1
4 Implementing good environmental management practices .....	2
5 How to use the appendices .....	3
6 References .....	3

### **Appendices**

Appendix A—GEMP for all facilities (Informative).....	5
Appendix B—GEMP for air separation units and helium production facilities (Informative).....	12
Appendix C—GEMP for hydrogen/carbon monoxide units (Informative).....	15
Appendix D—GEMP for carbon dioxide production and dry ice facilities (Informative) .....	19
Appendix E—GEMP for truck maintenance and distribution terminals (Informative).....	22
Appendix F—GEMP for acetylene manufacturing operations (Informative) .....	24
Appendix G—GEMP for cylinder fill and cylinder maintenance operations (including specialty gas operations) (Informative).....	27
Appendix H—GEMP for customer installations (Informative) .....	30
Appendix I—GEMP for nitrous oxide manufacturing plants (Informative).....	31

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## 1 Introduction

This publication is a practical guide to good environmental management practices in the industrial gases industry and has been developed in conjunction with the European Industrial Gases Association (EIGA) who publishes this guidance as EIGA Doc 88. It can be used on its own or in conjunction with other CGA publications on environmental management.

The environmental management system standard ISO 14001, *Environmental management systems — Requirements with guidance for use*, requires organizations to review their environmental aspects and put in place practices to minimize and control their impacts. This publication provides a standardized list that can be used in any industrial gas company [1].<sup>1</sup>

This publication has been prepared by member associations of the International Harmonization Council, under the lead of EIGA and is intended for the worldwide use and application by all members of the International Harmonization Council. The International Harmonization Council is composed of members from the Asia Industrial Gases Association (AIGA), Compressed Gas Association (CGA), European Industrial Gases Association (EIGA), and the Japanese Industrial and Medical Gases Association (JIMGA). Regional editions may use non SI units and refer to national, and/or regional legislation.

## 2 Scope and purpose

### 2.1 Scope

This publication provides guidance on good environmental management practices to industrial gas facility managers. It does not give specific advice on health and safety issues; however, consideration shall always be given to these issues when conducting operational risk assessments before undertaking any activity.

Industrial gas facilities have distinct activities and associated environmental aspects that can impact the environment. This publication provides good environmental practices at air separation and helium production facilities, hydrogen and carbon monoxide facilities, and carbon dioxide facilities. It also provides good environmental practices for truck maintenance and distribution, acetylene and nitrous oxide manufacturing, cylinder fill operations, specialty gases operations, and customer installation (bulk tanks) activities.

### 2.2 Purpose

This publication identifies typical industrial gas industry activities and associated environmental aspects that can have a negative impact on the environment, and it identifies corresponding practices that can minimize or eliminate those impacts.

Environmental aspects can include solid/hazardous waste, air emissions, wastewater discharges, stormwater discharges, noise, and releases generated at various industrial gas facilities.

For each activity, environmental aspects, potential environmental impacts, and good environmental management practices (GEMP) have been identified that can be used to prevent pollution, minimize the generation of wastes, discharges and releases, manage any residuals and use of energy, raw materials, water, and land.

## 3 Definitions

For the purpose of this publication, the following definitions apply.

### 3.1 Publication terminology

#### 3.1.1 Shall

Indicates that the procedure is mandatory. Shall is used wherever the criterion for conformance to specific recommendations allows no deviation.

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<sup>1</sup> References are shown by bracketed numbers and are listed in order of appearance in the reference section.