

Hydrocarbon management

HM 0

Hydrocarbon management terms and definitions

2nd edition

HYDROCARBON MANAGEMENT
HM 0 HYDROCARBON MANAGEMENT TERMS AND DEFINITIONS

2nd edition

March 2016

Published by
ENERGY INSTITUTE, LONDON
The Energy Institute is a professional membership body incorporated by Royal Charter 2003
Registered charity number 1097899

The Energy Institute (EI) is the chartered professional membership body for the energy industry, supporting over 23 000 individuals working in or studying energy and 250 energy companies worldwide. The EI provides learning and networking opportunities to support professional development, as well as professional recognition and technical and scientific knowledge resources on energy in all its forms and applications.

The EI's purpose is to develop and disseminate knowledge, skills and good practice towards a safe, secure and sustainable energy system. In fulfilling this mission, the EI addresses the depth and breadth of the energy sector, from fuels and fuels distribution to health and safety, sustainability and the environment. It also informs policy by providing a platform for debate and scientifically-sound information on energy issues.

The EI is licensed by:

- the Engineering Council to award Chartered, Incorporated and Engineering Technician status;
- the Science Council to award Chartered Scientist status, and
- the Society for the Environment to award Chartered Environmentalist status.

It also offers its own Chartered Energy Engineer, Chartered Petroleum Engineer and Chartered Energy Manager titles.

A registered charity, the EI serves society with independence, professionalism and a wealth of expertise in all energy matters.

This publication has been produced as a result of work carried out within the Technical Team of the EI, funded by the EI's Technical Partners. The EI's Technical Work Programme provides industry with cost-effective, value-adding knowledge on key current and future issues affecting those operating in the energy sector, both in the UK and internationally.

For further information, please visit <http://www.energyinst.org>

The EI gratefully acknowledges the financial contributions towards the scientific and technical programme from the following companies

BP Exploration Operating Co Ltd	RWE npower
BP Oil UK Ltd	Saudi Aramco
Centrica	Scottish Power
Chevron	SGS
CLH	Shell UK Oil Products Limited
ConocoPhillips Ltd	Shell U.K. Exploration and Production Ltd
DCC Energy	SSE
DONG Energy	Statkraft
EDF Energy	Statoil
ENGIE	Talisman Sinopec Energy (UK) Ltd
ENI	Tesoro
E. ON UK	Total E&P UK Limited
ExxonMobil International Ltd	Total UK Limited
Kuwait Petroleum International Ltd	Tullow Oil
Maersk Oil North Sea UK Limited	Valero
Nexen	Vattenfall
Phillips 66	Vitol
Qatar Petroleum	World Fuel Services

However, it should be noted that the above organisations have not all been directly involved in the development of this publication, nor do they necessarily endorse its content.

Copyright © 2016 by the Energy Institute, London.

The Energy Institute is a professional membership body incorporated by Royal Charter 2003.

Registered charity number 1097899, England

All rights reserved

No part of this book may be reproduced by any means, or transmitted or translated into a machine language without the written permission of the publisher.

ISBN 978 0 85293 781 5

Published by the Energy Institute

The information contained in this publication is provided for general information purposes only. Whilst the Energy Institute and the contributors have applied reasonable care in developing this publication, no representations or warranties, express or implied, are made by the Energy Institute or any of the contributors concerning the applicability, suitability, accuracy or completeness of the information contained herein and the Energy Institute and the contributors accept no responsibility whatsoever for the use of this information. Neither the Energy Institute nor any of the contributors shall be liable in any way for any liability, loss, cost or damage incurred as a result of the receipt or use of the information contained herein.

Hard copy and electronic access to EI and IP publications is available via our website, <https://publishing.energyinst.org>.

Documents can be purchased online as downloadable pdfs or on an annual subscription for single users and companies.

For more information, contact the EI Publications Team.

e: pubs@energyinst.org

CONTENTS

	Page
Foreword	4
Acknowledgements	5
1 Introduction	6
1.1 Background	6
1.2 Use of these terms and definitions	6
2 Table of terms and definitions	7

FOREWORD

The EI Hydrocarbon Management Committee (HMC) is responsible for the production and maintenance of standards and guidelines covering various aspects of static and dynamic measurement of petroleum.

The HMC is made up of the chairs and vice chairs of the hydrocarbon management (HM) subcommittees, comprising international experts in the fields of cargo inspection, marine transportation, refineries, marketing and distribution and upstream hydrocarbon management.

The EI maintains liaison with parallel working groups of the American Petroleum Institute's Committee On Petroleum Measurement, and other organisations concerned with quantitative measurement in other countries and in other industries.

The EI Hydrocarbon Management Guidelines (formerly Petroleum Measurement Manual and Petroleum Measurement Papers) are widely used by the petroleum industry and have received recognition in many countries by consumers and the authorities. In order to promote international good practice the EI works via the British Standards Institute to develop standards through the International Standards Organisation's technical committee TC-28; Petroleum Products and related products of synthetic or biological origin, and its sub committee TC28/SC2; Measurement of petroleum and related products.

A full list of hydrocarbon management guidelines is available on request from the Energy Institute.

The EI hydrocarbon management guidelines are recommended for general adoption but should be read and interpreted in conjunction with safety, environmental, weights and measures, customs and excise and other regulations in force in the particular country in which they are to be applied. Such regulatory requirements have precedence over corresponding clauses in the EI document except where the requirements of the latter are more rigorous, when its use is recommended. Users should also consider contractual constraints imposed by any other interested party.

Users are invited to send comments, suggestions or details of relevant experience to:

Technical Department
Hydrocarbon management
Energy Institute
61 New Cavendish Street
London
W1G 7AR
United Kingdom
e: technical@energyinst.org
www.energyinst.org

ACKNOWLEDGEMENTS

The EI wishes to acknowledge the contribution of all members of the Hydrocarbon Management Committee and sub committees to the preparation of this document.

1 INTRODUCTION

1.1 BACKGROUND

The EI Hydrocarbon Management Committee has identified the need to produce an agreed set of definitions for terms frequently used in EI petroleum measurement guidance. There is a fundamental requirement for consistency of definitions and to ensure such definitions conform with internationally accepted ISO definitions wherever possible.

Most EI codes contain a glossary of terms (or terms and definitions section) giving definitions for specific terms used in the text and clarification of their meaning for the particular subject and context. However, because EI measurement glossaries are spread over many publications, instances have arisen of variations in the wording for a particular definition used in several different codes. The aim of this document is to prevent such occurrences in future publications.

The definitions represent an attempt to draw together all the essential metering and statistical terms used for both static and dynamic measurement. Where definitions are in line with ISO standards, the ISO reference is given.

Where more than one term is given for the same definition, the first one listed is preferred.

1.2 USE OF THESE TERMS AND DEFINITIONS

EI committees developing or revising HM documents should use the terms and definitions presented here, in accordance with the following policy:

All key terms used in a particular document should be contained in the glossary of the document concerned. Where applicable, these will be taken from HM 0.

Terms and definitions not contained in HM 0 may be used.

Interpretation of any document will be based on the terms contained in its glossary, which will take precedence over HM 0.

New terms, which committees/work groups consider to have application across a number of topics or to be in general use should be submitted to HMC for addition to HM 0.

Similarly, if committees/work groups find that there is a need to modify a term or its definition then recommendations should be submitted to HMC for consideration.