

**KNOWLEDGE TOOLKIT FOR
SUSTAINABILITY PROFESSIONALS**

Vol 8

Top #10 resources on IPIECA

Dear Readers,

IPIECA develops, shares and promotes good practices and knowledge to assist the oil and gas industry improve its environmental and social performance.

The oil and gas industry must work consistently to achieve improvements that have a clear impact. If you operate in the oil and gas sector and want to address issues that dominate the Sustainable Development agenda, such as climate and energy, environmental and social issues, this Knowledge Toolkit is for you.

The Toolkit will help you with disclosing your impact and performance as per the IPIECA guidelines, shape your sustainability report structure and content. It will guide you to focus on the SDGs and report climate impacts according to IPIECA, TCFD, GRI and CDP to achieve a low emissions future.

The Toolkit will also assist you in informing strategy and decision making and assessing opportunities, challenges and potentials of the industry in using water, developing alternative energy, mitigating risks to workers and improving environmental and social performance across the supply chain.

To foster responsible and sustainable business in the oil and gas industry, we invite you to look at this set of resources. We are confident that you will find this collection practical and valuable as you disclose your environmental and social impact.

Enjoy your reading.

Sustainability Knowledge Group

SUSTAINABILITY REPORTING GUIDANCE FOR THE OIL AND GAS INDUSTRY

Publication Title: Sustainability reporting guidance for the oil and gas industry

Issued by: IPIECA , API and IOGP

Publication Date: 2020

Description: The Sustainability reporting guidance for the oil and gas industry is a key tool to help companies shape the structure and content of their sustainability reporting. The guidance provides direction on the content of a typical industry report by covering 21 sustainability issues and 43 indicator categories.

Keywords: Sustainability reporting, oil and gas industry, guidance, climate change, IPIECA , API, IOGP

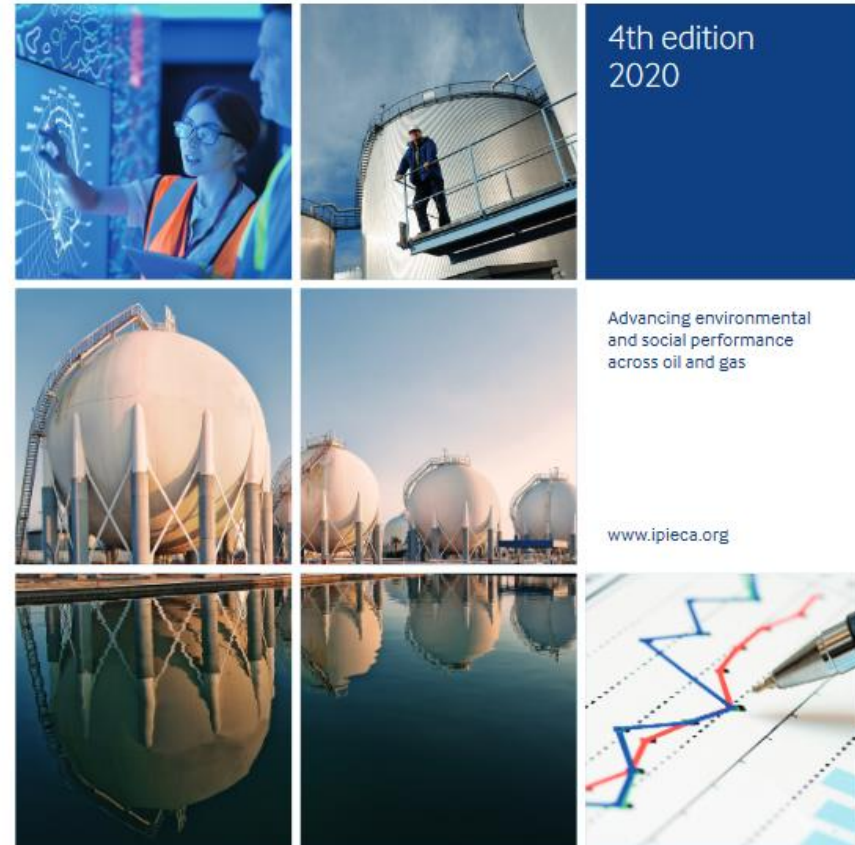
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energy API

IOGP International Association of Oil & Gas Producers

Sustainability reporting guidance for the oil and gas industry



MAPPING THE OIL AND GAS INDUSTRY TO THE SUSTAINABLE DEVELOPMENT GOALS: AN ATLAS

Publication Title: Mapping the oil and gas industry to the Sustainable Development Goals: An Atlas

Issued by: UNDP, IFC and IPIECA

Publication Date: August 2017

Description: The Atlas explores the links between the oil and gas industry and the Sustainable Development Goals (SDGs) and seeks to facilitate a shared understanding of how the industry can most effectively support the achievement of the SDGs.

Keywords: Atlas, oil and gas, SDGs, stakeholders, sustainable development, climate change, UNDP, IFC, IPIECA

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MAPPING THE OIL AND GAS INDUSTRY TO THE SUSTAINABLE DEVELOPMENT GOALS: AN ATLAS



BIODIVERSITY AND ECOSYSTEM SERVICES FUNDAMENTALS

Publication Title: Biodiversity and ecosystem services fundamentals: Guidance document for the oil and gas industry

Issued by: IPIECA and IOGP

Publication Date: 2016

Description: The BES Fundamentals guidance document which brings together information essential to informing BES strategy development and decision making at the corporate level and at the key stages of an asset life cycle for any type of operation or environmental context.

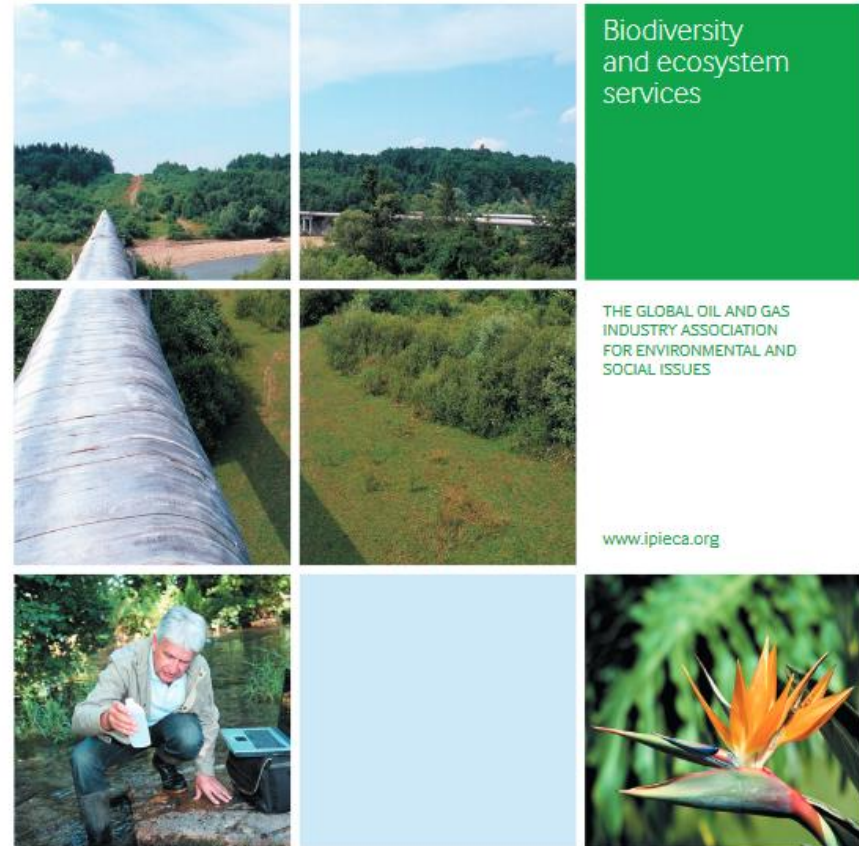
Keywords: Biodiversity, ecosystem, BES impact, stakeholders, oil and gas, IPIECA, IOGP

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Biodiversity and ecosystem services fundamentals

Guidance document for the oil and gas industry



ENVIRONMENTAL AND SOCIAL GOOD PRACTICE FOR THE ENERGY TRANSITION: A COMPENDIUM OF IPIECA GOOD PRACTICES

Publication Title: Environmental and social good practice for the energy transition: A compendium of IPIECA good practices

Issued by: IPIECA

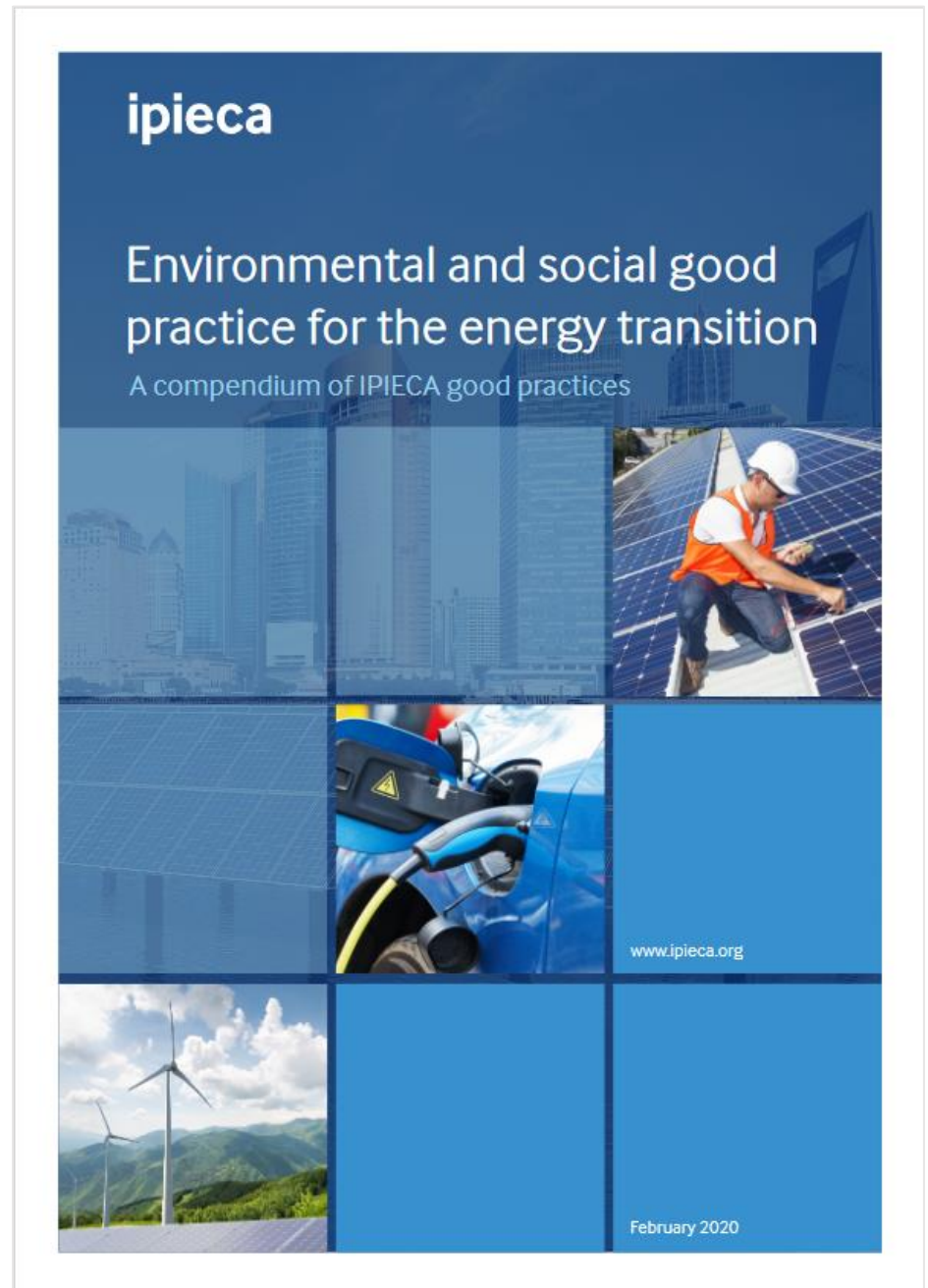
Publication Date: February 2020

Description: The report highlights IPIECA guidance and tools which can help alternative energy developers advance the environmental and social performance of their projects and operations.

The compendium is intended for the use of IPIECA members and beyond. It communicates to external stakeholders and other associations, the potential of the oil and gas industry to contribute useful practices and learnings for the alternative energy sector.

Keywords: Environment, stakeholders, energy transition, IPIECA

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REUSE OF PRODUCED WATER FROM THE ONSHORE OIL AND GAS INDUSTRY

Publication Title: Reuse of produced water from the onshore oil and gas industry: Evaluating opportunities and challenges

Issued by: IPIECA

Publication Date: 2020

Description: Fact sheet on evaluating the opportunities and challenges of reusing produced water for the onshore oil and gas industry.

The document discusses the sources of produced water, from conventional onshore oil and gas operations to unconventional operations, followed by summarising their common constituents and management methods, as well as discussing several successful produced water reuse applications.

Keywords: Water reuse, oil and gas, sustainable water, IPIECA

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Reuse of produced water from the onshore oil and gas industry

Evaluating opportunities and challenges



INTRODUCTION

Produced water is the water that is brought to the surface during the production of crude oil and natural gas, and includes formation water, flow-back water and condensation water (IPIECA, API, IOGP, 2020). Produced water varies in composition and volume from one formation to another and has often been managed as a waste material requiring disposal. In recent years, the increased demand for, and regional variability of, available water resources, along with sustainable water supply planning, have driven interest in the reuse of produced water. Such reuse includes the beneficial utilization of produced water to meet the requirements for use within the oil and gas industry or by external users.

Reuse of produced water can provide important economic, social and environmental benefits, particularly in water-scarce regions. For oilfield operations, produced water can be used for well stimulation (e.g. hydraulic fracturing), water flooding and enhanced oil recovery, thereby decreasing the demand for other sources of water. However, the reuse of produced water for off-site, non-oilfield applications, such as crop irrigation, wildlife and livestock consumption, industrial processes and power generation, is subject to a variety of constraints. Practical considerations for off-site reuse include, but are not limited to, supply and demand, regulatory (e.g. permits, water quality standards), infrastructure (e.g. transportation, storage, treatment technology), economic (e.g. cost), legal (e.g. ownership), social (e.g. public perception) and environmental factors (e.g. brine management).

This fact sheet, in conjunction with other IPIECA water management guidance, is intended as a resource for oil and gas operators and contractors, policymakers and other interested parties for investigating opportunities to reuse produced water for a variety of purposes. The document focuses on sources of produced water from conventional onshore oil and gas operations (e.g. high mobility/permeability formations) and unconventional operations (e.g. low mobility/permeability formations such as oil sands, and shale/tight oil and gas) and addresses the challenges and opportunities for the reuse of produced water. Although published information regarding produced water composition and management practices is limited, summary information is provided where available.

IPIECA CLIMATE CHANGE REPORTING FRAMEWORK

Publication Title: IPIECA climate change reporting framework: Supplementary guidance for the oil and gas industry on voluntary sustainability reporting

Issued by: IPIECA

Publication Date: May 2019

Description: IPIECA's Climate change reporting framework has been updated to reflect changes to standards in this area including the TCFD, ISO 14064 standard GHG reporting, GRI, and CDP frameworks – all of which are mapped in their latest versions.

Although it is for each company to develop its own approach to reporting on climate change risks, opportunities and GHG emissions performance, the framework is intended to aid companies in achieving this objective.

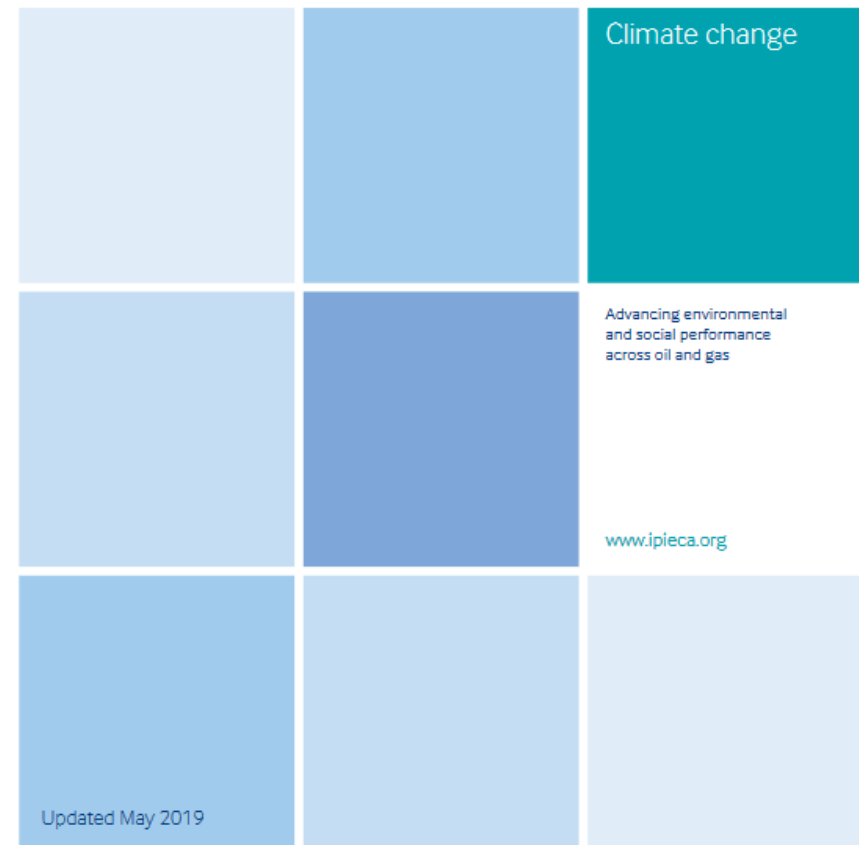
Keywords: Climate change, reporting frameworks, GHG, GRI, CDP, TCFD, ISO 14064, IPIECA

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IPIECA climate change reporting framework

Supplementary guidance for the oil and gas industry on voluntary sustainability reporting



GUIDE TO IPIECA GROUPS

Publication Title: Guide to IPIECA groups

Issued by: IPIECA

Publication Date: June 2020

Description: This guide provides an introduction to IPIECA workstreams, covering each group's purpose, selected highlights, 2020 focus, and task forces. The IPIECA groups are:

Climate Change, Fuels and Products, Environment, Biodiversity and Ecosystem Services, Water, Oil Spill, Social Responsibility, Human Rights, Health, Supply Chain, Reporting, Sustainable Development Goals, and Communications.

Keywords: Climate change, social responsibility, human rights, supply chain, reporting, SDGs, IPIECA

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COMPANY AND SUPPLY CHAIN LABOUR RIGHTS IN THE OIL AND GAS INDUSTRY

Publication Title: Company and supply chain labour rights in the oil and gas industry: IPIECA awareness briefing

Issued by: IPIECA

Publication Date: March 2019

Description: IPIECA has developed a series of guidelines and practical tools to help practitioners more effectively identify, prevent and mitigate labour rights risks and impacts within projects, operations and supply chains. The series also helps inform stakeholders of the industry's collective commitment and efforts to respect labour rights.

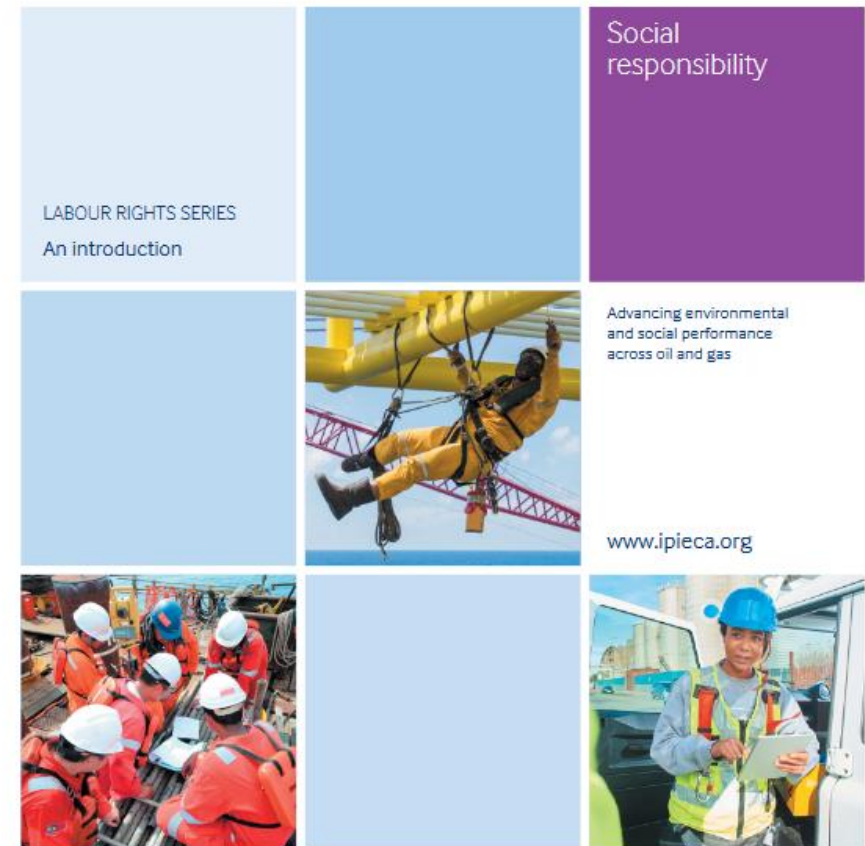
Keywords: supply chain, labour rights, oil and gas industry, worker grievance, IPIECA

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Company and supply chain labour rights in the oil and gas industry

IPIECA awareness briefing



THE ROLE OF SCENARIO ANALYSIS IN CLIMATE REPORTING

Publication Title: The role of scenario analysis in climate reporting: IPIECA awareness briefing

Issued by: IPIECA

Publication Date: March 2019

Description: This awareness briefing aims to ensure that the benefits and limitations of scenario analysis tools, and disclosure of their use, are clearly understood. It describes how it can be useful to investors to understand how a company has used scenario analysis, and some of the risks to their use in this situation. It also includes examples of how oil and gas companies currently use tools and methodologies, including scenario planning to assess climate change risk.

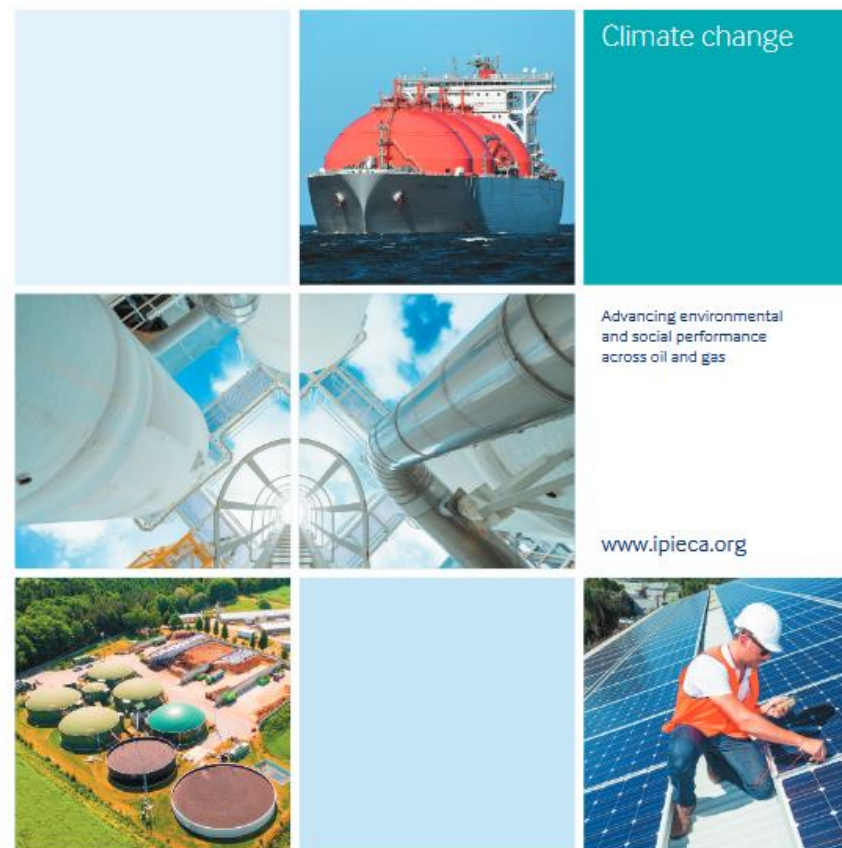
Keywords: Climate change risk, disclosure, IPIECA

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The role of scenario analysis in climate reporting

IPIECA awareness briefing



EXPLORING LOW-EMISSIONS PATHWAYS: ADVANCING THE PARIS PUZZLE

Publication Title: Exploring low-emissions pathways:
Advancing the Paris Puzzle

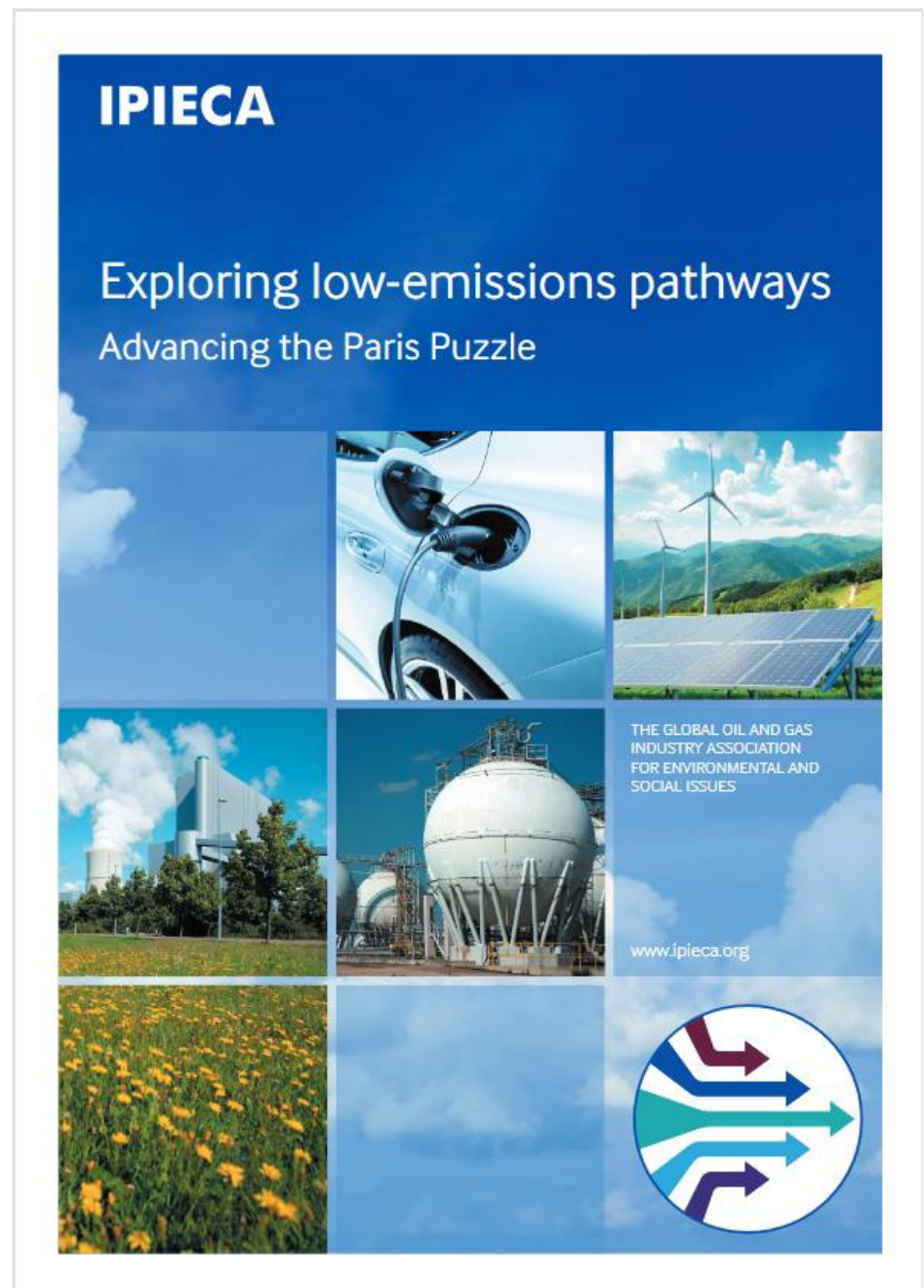
Issued by: IPIECA

Publication Date: November 2016

Description: This publication builds on IPIECA's 2015 Paris Puzzle, providing perspective on the common elements and enablers of pathways to meet a low-emissions future. IPIECA supports the Paris Agreement as an important step in addressing the risks of climate change.

Keywords: Climate change, Paris Agreement, GHG, IPIECA

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Links to Publications

No.	Publication Title	Link
1.	Sustainability reporting guidance for the oil and gas industry	https://www.iecea.org/media/5115/iecea_sustainability-guide-2020.pdf
2.	Mapping the oil and gas industry to the Sustainable Development Goals: An Atlas	https://www.undp.org/content/undp/en/home/librarypage/poverty-reduction/mapping-the-oil-and-gas-industry-to-the-sdgs--an-atlas.html
3.	Biodiversity and ecosystem services fundamentals	https://www.iogp.org/bookstore/product/biodiversity-and-ecosystem-services-fundamentals/
4.	Environmental and social good practice for the energy transition: A compendium of IPIECA good practices	https://www.iecea.org/resources/awareness-briefing/environmental-and-social-good-practice-for-the-energy-transition-a-compendium-of-iecea-good-practices/
5.	Reuse of produced water from the onshore oil and gas industry	https://www.iecea.org/resources/fact-sheet/reuse-of-produced-water-from-the-onshore-oil-and-gas-industry/
6.	IPIECA climate change reporting framework	https://www.iecea.org/resources/good-practice/iecea-climate-change-reporting-framework/
7.	Guide to IPIECA groups	https://www.iecea.org/resources/awareness-briefing/guide-to-iecea-groups/
8.	Company and supply chain labour rights in the oil and gas industry	https://www.iecea.org/media/4681/labour_rights_awareness_brief_lrsc_2019.pdf
9.	The role of scenario analysis in climate reporting	https://www.iecea.org/resources/awareness-briefing/the-role-of-scenario-analysis-in-climate-reporting/
10.	Exploring low-emissions pathways: Advancing the Paris Puzzle	https://www.iecea.org/resources/awareness-briefing/exploring-low-emissions-pathways-advancing-the-paris-puzzle/



Sustainability Knowledge Group is a global advisory firm dedicated in creating value for businesses through Sustainability, ESG and CSR **strategic advisory** and **training solutions**. In recognition of the importance of sustaining competitive advantage in today's marketplace, we support companies to develop and apply strategies that minimise risks and demonstrate leadership.

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Centre (JBC), Jumeirah
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