

# Addressing the Challenges of the Low-Carbon Energy Transition



# The evolving market landscape

**Response to climate change is a priority issue on any political, economic and social agenda, and deeply influencing the way the businesses are interacting with societies.**

Investors are demanding transparency around the **business and financial risk posed by climate change** that is driving boardroom decision-making. Companies need to translate business implications of policy, regulatory, market and technology shifts – and to disclose their responses.

Coupled with market and regulatory change, this pressure is **driving business diversification** (products, services, new markets, low carbon technologies, clean energy infrastructure, etc.) through organic growth, mergers and acquisitions, and construction of new infrastructure.

Companies in all sectors are **pursuing innovative and value-creating opportunities** across the value chain. They are embedding greenhouse gas emission reduction programs into operations and beyond, as part of day-to-day operational excellence. **Carbon-intensive assets** are being closed and cleaned up, while **new low-carbon infrastructure** is being built. This transition is being enabled by the **shift to digital technologies** and smarter use of data.

**Organizations are recognizing a number of decarbonization opportunities, including:**

## **Low-carbon policy frameworks**

e.g. country level strategies, emission trading schemes (ETS)

## **Financial risk assessment and reporting**

e.g. G20 Task-Force on Climate-related Financial Disclosures (TCFD)

## **Corporate transition strategy**

e.g. science-based targets

## **Portfolio diversification into lower-carbon energies**

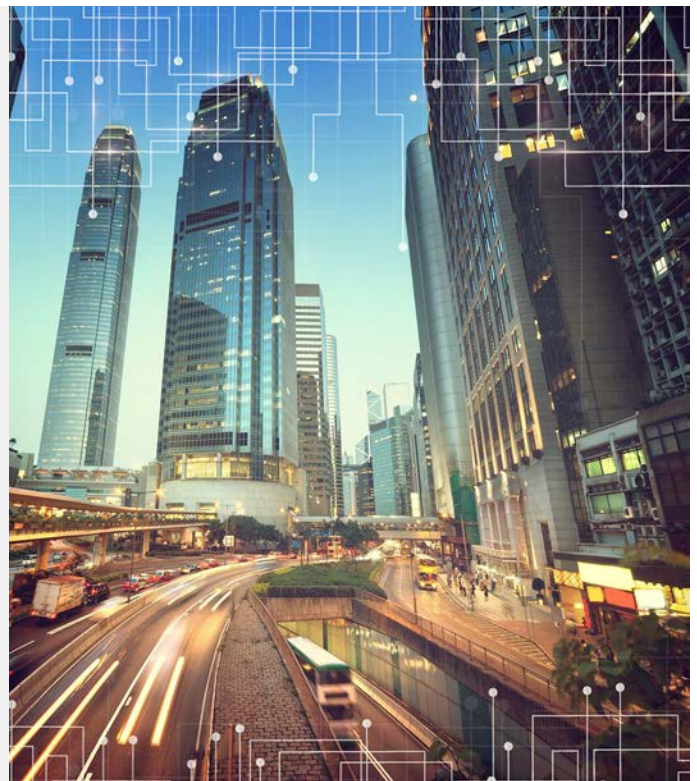
e.g. renewables, heat pumps, etc.

## **Development of new technologies**

e.g. Hydrogen for transport and heating, energy storage

## **Operational excellence**

e.g. greenhouse gas emissions management, energy efficiency planning



# Our integrated Energy Transition sustainability solutions

## Why ERM?

Companies worldwide partner with ERM, drawing on our 40 years industry experience and independent advisory to help them to strategically position in the emerging Energy Transition market and properly assess and address the major risks and opportunities in this area, at portfolio, company and facility level.

Combining technical expertise in risk, environmental, health and safety, stakeholders management and information solutions, we will offer a unique suite of solutions to maximize the return on investments in new technologies and projects.

## Our integrated Energy Transitions sustainability solutions

**Strategic advisory** to identify and manage financial, environmental and safety risk, and develop and implement sustainability strategies, programmes and tools

**Carbon footprint** assessment and certification

**Permitting support** to achieve project approvals and access to financing by managing environmental, social and health, risks and impacts

**Stakeholders management** to ensure proper engagement and communication at all stage of technology or project development

**Comprehensive safety risk** assessment and management for new technologies and projects

**Supply chain** sustainability assessment and monitoring

**Product compliance** assessment and management

**Integrated information solutions** and ad hoc data management tools





## About ERM

Environmental Resources Management (ERM) is a leading global provider of environmental, health, safety, risk, social consulting services and sustainability related services. We have more than 160 offices in over 40 countries and territories employing more than 4,700 people who work on projects around the world. ERM is committed to providing a service that is consistent, professional and of the highest quality to create value for our clients. We have worked with many of the Global Fortune 500 companies delivering innovative solutions for business and selected government clients helping them understand and manage the sustainability challenges that the world is increasingly facing.

For over 40 years we have been working with clients around the world and in diverse industry sectors to help them to understand and manage their environmental, health, safety, risk and social impacts. The key sectors we serve include Oil & Gas, Mining, Power, and Manufacturing, Chemical and Pharmaceutical. All face critical sustainability challenges and our clients in these and many other areas rely on our ability to assist them operate more sustainably which has a positive impact on our planet

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