

# Sustainable energy, Carbon & climate training courses

KEMA Academy



In-company & customized  
training courses

At the client's request KEMA can also provide in-company and customized training courses. The course can then, for example, deal with actual cases from your business operations, or future scenarios sketched out by you. We are flexible in this.

Growing demand for cleaner, renewable energy and increasing concern about CO<sub>2</sub> / greenhouse gas (GHG) emissions and climate change are profoundly altering the way utilities, businesses and governments plan for the future.

The issues and questions associated with renewable energy derive from a variety of areas, such as wind energy, bio-energy, bio-fuels, osmotic power generation, electric vehicles, solar energy, geothermal energy, waste-to-energy and energy efficiency.

Our carbon services include climate and energy policy analysis and support, strategic planning and risk assessment, GHG inventories and carbon footprint studies, climate action plans, carbon management, technological assessment, plant optimization and efficiency, and GHG mitigation strategies related to renewable energy, distributed generation and energy efficiency.

Our extensive experience in these fields is translated into our workshops and training courses.

For a current overview of our training program and to register, please visit [www.kema.com/academy](http://www.kema.com/academy).

## Overview of sustainable energy training courses

Course	Description	Subjects	Result	Target Group
<b>Development of wind energy projects</b> one-day training course Dutch language	This one-day course provides an excellent grounding in onshore wind farm development en includes all aspects of the development process.	<ul style="list-style-type: none"> <li>• Energy policy and trends for the future</li> <li>• Technical issues with wind turbines</li> <li>• Step-by-step planning of wind farm development</li> <li>• Grid integration</li> <li>• Wind farm control and operation</li> <li>• Project finance</li> <li>• Case study</li> </ul>	After the course you will have knowledge about all the aspects of the development process and the optimal way to implement preconditions.	(Prospective) wind energy project developers, wind farm owners, energy companies, policy-makers and financiers.
<b>Electric vehicles</b> one-day training course English language	Electric vehicles may be the answer to many of the environmental, economic and political challenges that we face in the next decade. This course will help guide you through the process of entering this emerging market. Focus is on gaining insight into the market and on understanding the benefits and implications of electric vehicles in general and for your organization in particular.	<ul style="list-style-type: none"> <li>• Market trends and regulations</li> <li>• Opportunities and implications for electric vehicles</li> <li>• Facts and misconceptions</li> <li>• Business models and cases</li> <li>• Consumer behavior</li> <li>• Relationship with (distributed) generation, e-trading and (smart) grids</li> <li>• The capabilities and limitations of batteries for electric vehicles</li> <li>• Electric vehicles and their impact on the electricity network</li> <li>• Expectations for the future</li> </ul>	The course provides a thorough understanding of the effects of introducing electric vehicles and insight into the associated opportunities and implications, as well as relevant business cases.	Utilities, policy makers, governments and anyone who is interested in purchasing an electric vehicle.

## Overview of carbon & climate training courses

Course	Description	Subjects	Result	Target Group
<b>Carbon footprint of organizations using ISO 14064-1</b> two-day training course English or Dutch language	The ISO 14064-1 standard was introduced in 2006 and before that the GHG Protocol (WBC SC/WRI) was used. These standards are becoming more and more a part of integral business practice. This course helps organizations to quantify and manage their greenhouse gas emissions and to understand the standards and their (inter)relationship.	<ul style="list-style-type: none"> <li>• The ISO 14064-1 standard</li> <li>• Determining GHG emission boundaries</li> <li>• Quantifying GHG emissions</li> <li>• Identifying actions and/or activities</li> <li>• Requirements and guidance on inventory quality management, reporting and internal auditing</li> <li>• Responsibilities</li> <li>• The (inter)relationship of the various standards, protocols and schemes</li> </ul>	After the course you will be able to determine organizational boundaries, quantify GHG emissions, identify actions and/or activities for improving GHG management, make a GHG management handbook and better judge ambition levels.	Employees of business and organizations who want to obtain (better) insight into CO2 emissions.
<b>Carbon and electricity markets</b> two-day training course English language	This course is designed to introduce participants into the world of energy policies, regulations, carbon management and CO2 reduction.	<ul style="list-style-type: none"> <li>• Policies and regulations</li> <li>• Risks and risk management</li> <li>• Price scenarios</li> <li>• (post) Kyoto Phase</li> <li>• Emissions Trading Schemes (ETS) and their influences</li> <li>• Energy supply</li> <li>• CO2 reduction options</li> <li>• Project-bases mechanisms</li> </ul>	Participants will understand the carbon market, the electricity market and their interaction.	Those new to the energy industry; new joiners and those involved in carbon issues within utilities and electricity producers, network companies and governmental agencies.

KEMA Academy  
 Utrechtseweg 310  
 6812 AR Arnhem  
 The Netherlands  
 T +31 26 3 56 29 54  
[kema.academy@kema.com](mailto:kema.academy@kema.com)  
[www.kema.com/academy](http://www.kema.com/academy)