First conceived in Canada more than 30 years ago, Responsible Care has been the global chemical industry’s premier performance initiative since 1985. By the end of 2017, Responsible Care was being implemented by 62 chemical associations in nearly 70 economies around the globe. Those associations are responsible for the detailed implementation of Responsible Care in their country. Individual country’s programs are at different stages of development and have different emphases and are monitored and coordinated by the Responsible Care Leadership Group (RCLG) of the International Council of Chemical Associations (ICCA). Expansion of Responsible Care is set to continue with expressions of interest and applications from new countries in Asia, Africa and Europe.

The Responsible Care Global Charter (see page 4), launched publicly at the first UN International Conference on Chemicals Management in February 2006, was revised and strengthened under an ICCA review process in 2014. The Charter seeks to harmonize, govern and expand the Responsible Care ethic globally. It also launched a new focus on product stewardship throughout the supply chain and promised continued contributions to sustainable development. As of November 2018, more than 590 chemical companies belonging to ICCA associations, and representing 96% of the world’s largest chemical companies, had signed on to the 2014 Global Charter.

The RCLG continues to pursue efforts to achieve additional support for the Charter from leading global chemical firms. It seeks to fully implement the Responsible Care Global Charter through the efforts of national chemical associations and company members.

Notes on Responsible Care® & the Responsible Care Leadership Group
THE RESPONSIBLE CARE®
GLOBAL CHARTER

First published in 2006, the Responsible Care Global Charter was revised in 2014 to respond to current stakeholder expectations, as well as to the opportunities and challenges facing the global chemical industry. CEO signatories to the Charter commit to actively strengthen Responsible Care worldwide by dedicating their company, people, technologies and business practices to these six Key Elements:

1. A Corporate Leadership Culture that proactively supports safe chemicals management through the global Responsible Care initiative.

Charter signatories commit to provide leadership and resources to:

- Implement Responsible Care principles and practices wherever the company manufactures or sells products;
- Participate in national Responsible Care programmes where the company has significant business activities;
- Contribute to the further expansion of Responsible Care in other regions where the company has significant business activities;
- Promote industry and public awareness of Responsible Care;
- Provide practical support and share best practices to enable other parties to successfully implement Responsible Care.

2. Safeguarding People and the Environment by continuously improving our environmental, health and safety performance; the security of our facilities, processes and technologies; and by driving continuous improvement in chemical product safety and stewardship throughout the supply chain.

Charter signatories commit to:

- Implement corporate principles, policies and procedures to safeguard employees, contractors, the public and the environment;
- Strive for continuous improvement with respect to workplace health and safety, public safety, process safety, environmental performance and the security of the company’s facilities and products.


Charter signatories commit to:

- Implement corporate principles, policies and procedures to safeguard employees, contractors, the public and the environment;
- Active collaboration in the development and implementation of effective, risk-based chemicals management policies, regulations and performance standards;
- Active participation in capacity building initiatives to advance the safe management of chemicals across the globe;
- Contributions to national and international education and research that advances understanding of the safety of chemicals, such as the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and the Long-range Research Initiative (LRI).

4. Influencing Business Partners to promote the safe management of chemicals within their own operations.

Charter signatories commit to:

- Drive continual improvement in product safety and stewardship processes and management;
- Provide information and assistance to enable safe chemicals management along the value chain;
- Collaborate with chemical users on maintaining and improving processes for the safe and effective uses of chemicals;
- Champion Responsible Care along the chemical industry value chain and encourage similar approaches in other industrial sectors.

5. Engaging Stakeholders, understanding and responding to their concerns and expectations for safer operations and products and communicating openly on our performance and products.

Charter signatories commit to:

- Engage stakeholders to understand and respond to their concerns and expectations about chemical manufacturing and product safety;
- Provide stakeholders with company performance and product safety information;
- Provide performance information to national and international Responsible Care organizations to facilitate effective dialogue with the industry’s stakeholders.

6. Contributing to Sustainability through improved performance, expanded economic opportunities and the development of innovative technologies and other solutions to societal challenges.

Charter signatories commit to:

- Implement corporate principles, policies and processes to drive continuous improvement in waste management, greenhouse gas emissions and the efficient use of resources including energy, raw materials and water;
- Promote the importance of chemicals in improving quality of life and contributing to sustainable development;
- Participate in initiatives which confirm Responsible Care as a contributor to sustainable development and encourage others to make their own contributions to sustainability.
FOREWORD

FROM THE MOMENT I took over the RCLG Chairmanship, I’ve been keen to make Responsible Care® more understandable, achievable for SMEs and offer added-value to all practitioners. We’re addressing the maturation of the Responsible Care Management Framework and the need for rejuvenation efforts, and I have been very encouraged by the tremendous response of leading member associations as I reach the end of my tenure.

It is always a pleasure to welcome new member associations to the Responsible Care family. Since our last Responsible Care Status Report in 2015, we have added the lead chemical organization from four more nations: Croatia, Egypt, Pakistan and Vietnam. These four and many other national associations, including priority ICCA targets India and China, have benefited from our capacity building efforts. In 2016, capacity building was restructured under a new task force to address future challenges and strengthen industry’s chemicals management capabilities across the globe.

As outlined in this report, our work with UN Environment chemical management capabilities across the globe.

THANK YOU, PATRICK, for your leadership, enthusiasm and passion. I feel quite humble to become a part of this global success story involving so many dedicated people living and working all over the world.

We live in extraordinary and complex times involving growing interaction with our stakeholders and improved knowledge on all sides.

We live in extraordinary times with more value-added delivered by the chemical industry than ever before.

At the same time the challenge to keep this valued-added interaction, knowledge and complexity in balance has never been greater. Responsible Care® will support our industry’s role in keeping that balance, evolving to meet fresh challenges more than three decades after its launch.

We can expect increased stakeholder scrutiny of industry’s contribution to the UN Sustainable Development Goals (SDGs). The ICCA Sustainability Task Force approved by the Board in June of this year is a positive response, and as a member of this group I look forward to working closely with representatives from national associations and companies at the forefront of sustainability innovation, and from across all four ICCA leadership groups. We will strive to make the most of this important opportunity over the next three years.

This new focus is reflected in our report which outlines plans for an ICCA strategy for sustainability that connects to Responsible Care and sound chemicals management as a vital foundation, provides the substance of our contribution to the UN Strategic Approach to International Chemicals Management (SAICM) process, and charts the way forward beyond 2020. It is not only a matter for internal developments and actions but is also high priority for our continued engagement with UN Environment, national governments and non-governmental organizations (NGOs).

Responsible Care has proved an enduring and effective tool for driving our industry’s EHS&S performance. But it is more than a tool: it is a set of values which requires us all to feel a sense of ownership in a continuously changing environment. I look forward to being a part of this team and of the Responsible Care journey as the global chemical industry takes on new and evolving societal challenges.

We live in extraordinary times with more value-added delivered by the chemical industry than ever before.”

BAUDOUIN KELECOM

“I have been very encouraged by the tremendous response of leading member associations.”

PATRICK VANDENHOEKE

Thank you for your feedback. Contact information can be found at the back of this report, and in the detailed section on our National Associations and their Responsible Care programs. Thank you for your time.

Patrick Vandenhoeke
RCLG Chairman 2016-2018
The business of chemistry impacts nearly every sector of the economy and is active virtually everywhere in the world. It is therefore essential that sound chemicals management guides all our interactions from the international level through to individual production sites and the whole supply chain, and forms the core of industry’s Responsible Care® initiative.

Since the launch of Responsible Care over three decades ago, our chemicals management activities have expanded from an initial focus on environment, health and safety (EHS) and, later, security at manufacturing sites. Today, we encompass numerous diverse activities that help build and strengthen relationships with supply chains, governments and regulators. It also allows us to partner with international organizations and collaborate with other key stakeholders.

The importance of reaching out to and working with our stakeholders to ensure effective chemicals management is reflected in the Responsible Care Global Charter (page 2). This chapter highlights a selection of ICCA’s current chemicals management activities illustrating ongoing efforts both within our industry and in partnership with others at the international and national levels, complementing the work of individual companies and associations worldwide.

NEXT STEPS AFTER 2020

Actions and negotiations related to SAICM as an essential part of our industry’s drive to ensure the safe management of chemical products. But with the deadline approaching, it is clear the 2020 goal will not be fully met. Therefore, stakeholders are involved in intensive discussions to shape a future platform for the sound management of chemicals. Industry is seeking to retain the benefits of the voluntary, multi-stakeholder and multi-sectoral approach of SAICM under any future framework.

In the meantime, through its Responsible Care and Chemical Policy & Health (CP&H) leadership Groups, ICCA continues to engage in joint projects and partnerships that reflect industry’s full commitment to SAICM. We are actively involved in the SAICM intersessional process as well as in the UN Environment Assemblies. We work with our national associations, chemical companies, value chain partners and other stakeholders on a range of initiatives and programs – Responsible Care, the Global Product Strategy (GPS), capacity building and more – that have safe chemicals management at their heart and we will continue to expand and strengthen these efforts.

Since its launch in 2006, GPS has helped industry build on its product stewardship efforts. It leverages the experience and knowledge of leading global chemical manufacturers to improve chemical management practices, especially in developing countries and those without robust chemical regulatory frameworks. It provides a vehicle for ICCA to share best practices and information about chemical safety and conduct trainings for small and medium-sized companies and local governments.

GPS helps ICCA achieve four primary objectives throughout the global chemical industry and the chemical value chain:

- Enhance product stewardship worldwide;
- Improve chemicals management through risk assessment and risk management;
- Enhance transparency about chemical substances and products;
- Reduce differences in the safe handling of chemical substances between developing, emerging and industrialized countries.

For more than a decade, GPS has formed an important part of industry’s global capacity building efforts by helping to establish practices through projects and workshops that improve the EHS performance of chemical products at each stage of the lifecycle.

This chapter also offers examples of projects that reflect our commitment to increasing the worldwide adoption and implementation of the UN’s Globally Harmonized System for Classification & Labelling (GHS) to enhance worker protection and to share information regarding the hazards and basic safe handling of chemicals. GHS provides the first step towards sound chemicals management and helps countries at the earliest stages of chemicals oversight to identify and communicate the hazards of chemicals. Its use of easily-understood symbols provides essential product information, including safety precautions, to workers and citizens. Since SAICM was established in 2006, more than 50 countries have begun implementing GHS.

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Cooperation with...

UN Environment

Originally signed in 2010 and renewed in 2016, the ICCA\'s MOU with UN Environment has fostered a wide range of joint activities, from workshops and symposiums to in-depth studies. At the UNEA-3 in December 2017, ICCA committed to hold 10 capacity-building workshops a year and launch Responsible Care\' in five new countries until 2030. During UNEA-4, UN Environment, Erik Solheim, and ICCA Director General, Chemicals & Health in Business, Jacob Duer, acknowledged the chemical industry\'s contributions to the 2030 SDGs and stressed the importance of working together. In 2017, four joint projects were approved by the ICCA Board that are ongoing through 2018. These are:

- A study on knowledge and information sharing, to improve understanding of the number of chemicals in commerce and provide an overview of available data sources.
- A study on the UN SDGs to demonstrate and offer external validation of the contribution of chemicals to sustainable development, and provide a roadmap for policy conditions, innovation and progress at industry level.
- Improving chemicals and waste management at the national level in Argentina through support for Responsible Care and the GHS, aiming at strengthening joint efforts between government authorities, industry, the UN and other stakeholders.
- Supporting Responsible Care development in Kenya where implementation is being championed by the Kenya Association of Manufacturers. Chemical and Allied Sector group together with leading local and multinational companies. Industry preparations are already underway for UNEA-4 in Nairobi in March 2019. The theme – "Innovative solutions for environmental challenges and sustainable consumption and production" – offers an opportunity for industry to showcase achievements and progress in this field. (Further details on Kenya and Argentina projects in the chapter on Capacity Building.)

Distributors

The signing of a revised and strengthened MOU between ICCA and the International Chemical Trade Association (ICTA) in May 2018 provides new momentum for Responsible Care and the promotion of the Responsible Care and Responsible Distribution initiatives worldwide. Greater cooperation on capacity building with chemical distributors internationally is a key component of the agreement, enabling both industry sectors to enhance sound chemicals management globally – particularly in the fiscal regions of India, China and Africa. Developed by the joint ICTA and ICCA Task Force set up in 2017, the MOU includes several new elements. It emphasizes the commitment of chemical manufacturers and distributors to EHS and security performance throughout the supply chain. It also offers the possibility of developing common messaging to support close links with advocacy to international organizations such as the multi-stakeholder approach under the SAICM umbrella, and with the OPCW.

OPCW

As a committed supporter of the Chemical Weapons Convention, ICCA has formalized and strengthened its cooperation with the Organization for the Prohibition of Chemical Weapons (OPCW) since 2014 through formation of a Joint Steering Committee that manages the relationship and a Chemical Industry Coordination Group to implement the committee\'s decisions. Activities include engagement with OPCW on various issues, capacity building, and participation in relevant meetings, chemical safety and security activities. ICCA supports OPCW\'s publication of "The Hague Chemicals Guidelines" intended to build understanding among the science community and society about the culture and practice of responsible science. ICCA also encourages its member associations to further publicize and disseminate the Guidelines more widely.

Governments

ICCA engages with national governments around the world to support chemicals management. Two very different examples involve close cooperation with the governments of Germany and Sri Lanka.

- A recent agreement with Germany\'s Ministry of Environment (BMU) will drive project development and implementation of GHS in Africa, involving Ghana and the Ivory Coast in joint projects and building capacity guidance from where GHS is already implemented. Representatives from Ghana and the Ivory Coast are working with ICCA and BMU to develop individual roadmaps for GHS in their countries, and a workplan including the identification of potential challenges where industry can offer support and expertise. The project makes use of various tools including courses run by the United Nations Institute for Training and Research and the ICCA\'s Regulatory Conference Toolkit (see right).

- Over the five years since Sri Lanka joined the OPCW, mentored by Responsible Care New Zealand, the Sri Lanka Responsible Care Committee (LRC) has successfully built on the strong framework provided by nearly a decade of activity under the UN-led National Cleaner Production Centre (NCPC) program. A key objective was to ensure that Responsible Care enabled a strengthened focus on chemicals management. Thanks to funding granted under SAICM for a joint project with United National Industrial Development Organization (UNIDO) and NRCS, a new division for chemicals management has been set up under the Ministry of Environment. LRC has played a major role in developing draft policy and regulations covering chemicals transport, storage and handling, and introduction of mandatory GHS labeling. LRC will also be involved in capacity building with universities and industries, and in an intensive training program for EHS inspectors, training of trainers and consultants and of key people in Responsible Care companies.

Regulators

Industry developed its Regulatory Toolkit guidance to promote greater understanding and use of step-wise, sound regulations where needed. It provides a collection of current information on the international regulatory environment for chemicals with the aim of providing a useful tool for national and international regulators, managers and staff members of chemical companies, and others involved in the effort to ensure the sound management of chemicals around the globe. It also sets such regulatory elements to each of the five SAICM objectives. It\'s a living document that is revised regularly to ensure it stays relevant and effective for users. The Toolkit is:

- Serving as a resource for national governments when developing or updating chemical management regulations.
- Creating greater understanding regarding the assessment and use of chemicals.
- Encouraging the establishment of sound, step-wise regulations.
- Collecting current information on the international regulatory environment for chemicals.
- Providing support to national and international regulators, managers and staff members of chemical companies, and others involved in the effort to ensure the sound management of chemicals.
- Identifying areas where improvement and/or greater coherence between current international regulations would significantly improve the ability of regulators and companies to meet EHS objectivess while reducing obstacles to the manufacture and sale of chemicals in the global marketplace.

Multi-stakeholders

Chemicals management was the focus of the 4th Responsible Care Latin America Congress 2017 held in Quito, Ecuador in mid-November. The event brought together an impressive set of stakeholders including UNIDO, representatives from government ministries, state or regional governments, academia, and industry at both national and regional level. A key objective was to publicize and share experience built up over the 15 years since Ecuador adopted Responsible Care. The event also showcased an opportunity for the region\'s national associations to discuss challenges and opportunities and continue a work to establish a normative framework for GHS implementation efforts. It included development of a Risk Management Guide for chemical substances handling and additional GHS activities.
The global chemical industry is committed to accelerating progress towards the UN Sustainable Development Goals (SDGs).

**Health & Well-Being**
- Chemistry enables people around the world to live longer, healthier lives by providing clean drinking water, delivering a safe, adequate food supply to meet basic nutritional needs, and advancing technologies that lead to groundbreaking medicines and medical treatments to help eradicate once deadly diseases.

**Learning & Education**
- ICCA members actively collaborate with governments and non-government organisations to advance educational programmes through our capacity building workshops that are socially, culturally and economically relevant, promote equality and lead to greater empowerment of community members.

**Partnerships & Capacity Building**
- ICCA partners with UN Environment to catalyse action and achieve meaningful change. ICCA also teams with a range of stakeholders – from small and mid-sized chemical companies in emerging economies, to non-governmental and inter-governmental organisations – to address chemicals management issues.

**Modern Energy & A Healthy Climate**
- Nearly all clean and renewable energy sources and technologies depend on innovations in chemistry to become more efficient, affordable and scalable. Chemical innovations improve energy efficiency in transportation and buildings to contribute to a less carbon-dependent society and support the fight against climate change and ozone depletion.

**Ecosystem Protection**
- ICCA supports a more circular economy that prioritises resource conservation and efficiency innovations in product design that enable longer product lifespans, and reuse, recycling and recovery technologies that capture the greatest value from materials that have traditionally been discarded.

**Sustainable Economies**
- Over 20 million people around the globe are employed directly or indirectly by the chemical industry, and more than 96 per cent of manufactured goods are touched by chemistry. We are helping developing countries to create a sustainable foundation for job creation, a healthy manufacturing sector and economic prosperity while supporting local tax bases.

**Ocean Conservation**
- ICCA is engaged in activities and partnerships to increase recycling, recovery and reuse of plastics so that they do not contaminate our environment or end up in our oceans. Plastic packaging provides a host of benefits while using significantly fewer resources and having lower environmental impacts than many other materials.

**Sustainable Consumption & Production**
- ICCA is putting the power of chemistry to work to unlock solutions to society’s biggest challenges in a safe and sustainable way. harnessing the power of chemistry’s essential benefits. Our two flagship initiatives, Responsible Care® and the Global Product Strategy, advance the safe handling and use of chemicals in our own operations and throughout the supply chain.

**The Growing Focus on Sustainability**
- Both within our industry and externally – has undoubtedly helped shape the evolution of Responsible Care® initiatives in many parts of the world over the past three decades and has enabled our continued engagement in the sustainable development debate at the international level.

Formation of a new ICCA cross-Leadership Group Sustainability Task Force in June 2018 further strengthens our commitment to sustainability. The new task force will lead the development of industry’s strategy and positioning, ensuring Responsible Care® and sound chemical management are fit for purpose to provide the foundation for our contributions to sustainability.

The new task will also coordinate an ICCA inventory and develop a communications plan for sustainability-related issues. Other work involves the development and implementation of a “Responsible Care Maturity Model” under a project led by the European Chemical Industry Council (Cefic) aimed at harmonizing a global view of Responsible Care® vis-à-vis sustainability and at unifying Responsible Care® efforts across regions as progress toward greater convergence between these two.

Our timing dovetails with increased external focus on the topic such as UN Environment’s SAICM intersessional proceedings where stakeholders are examining how to connect the post-2020 chemicals agenda to the SDGs and the broader topic of sustainable chemistry.

A tangible result of this focus saw experts from various regions, sectors and backgrounds convene in Chengdu, China in September 2018 to identify opportunities, address challenges and facilitate innovative solutions aimed at unlocking the full potential of a circular economy (photo below). Hosted by ICCA and UN Environment, the conference enabled our continued engagement in the sustainable development debate at the international level.

Visit www.icca-chem.org/SDGs to learn more.
and supported by the China Petroleum and Chemical Industry Federation (CPCIF), participants shared knowledge and experience of the technologies, business models, financing structures, and policy conditions required to fully achieve circularity. As an end-product, government, academia, non-governmental organizations and industry will develop messages and next steps to bridge the gaps that we will make our actions and advance circular economy on a global level.

ICCA's infographic on the previous page shows how industry is committed to accelerating progress towards the SDGs.

A UNITED APPROACH

Responsible Care® offers industry a unified approach to the major sustainability footprint issues we face, namely product stewardship, pollution prevention, occupational health and safety, and chemical security. Responsible Care® will contribute to play a critical role by providing the essential first steps in sound and sustainable chemicals management through building industry capacity in emerging economies. Sustainability experts are already encompassed in the most mature Responsible Care models, including social issues and innovation agendas.

ICCA will use the Maturity Model, developed by Delphi and tested with European members to demonstrate how the relationship with sustainability grows as an organization's Responsible Care program progresses. The project involves development of a tool to guide associations and companies of all sizes in the effective implementation of Responsible Care®. It will be based on best practices and compatible with International Standards Organization (ISO) norms, Corporate Social Responsibility (CSR) and the UN SDGs. Guidance will be complemented by supporting assessment materials.

The tool will support more advanced organizations that want to take their systems to greater degrees of efficiency with the broader issues encompassed by sustainability.
REPORTING ON PROGRESS AND PERFORMANCE

The challenge took on a new dimension when, in 2014, the China Petroleum & Chemical Industry Federation (CPCIF) became a member of the RCLG. This major player accounts for around 40% of global chemicals production according to Cefic Chemdata International (2016 sales), but its regulatory and operating structures are not aligned with the basic reporting processes followed by ICCA.

We also recognize that Responsible Care reporting only offers an indicator of global chemical industry performance and trends rather than a complete picture of the industry because not all RCLG member associations require mandatory participation in Responsible Care, nor do they represent a country’s entire chemical sector.

While acknowledging the challenges involved, ICCA continues to work on improving and expanding its performance reporting capabilities. The past few years have seen two important enhancements: development and launch of a new Key Performance Indicator (KPI) for process safety, and of a new website for global data reporting through our National Association members. The website upgrade follows a prolonged period of interrupted and inconsistent data collection via the...
previous online reporting tool. This means that the current report does not include the usual comprehensive dataset of EHS indicators covered in previous Responsible Care® Status Reports.

We began the roll-out of the RCLG’s new enhanced performance reporting website in June 2018, with a successful test run prior to the official launch in July. The new platform is more user-friendly for national chemical associations reporting on the core set of KPIs that track industry EHS performance under Responsible Care (see panel page 17). It also enables ICCA to track Responsible Care implementation progress through members’ annual completion of a comprehensive survey (further details on page 25).

Although KPI performance charts are not included in this report, we instead offer insight into progress of the global Responsible Care initiative in some key areas through the charts on pages 18-19 and in the chapter on Global Implementation, pages 24-48.

The three charts provide a snapshot of the current status of associations’ commitment to advancing sustainable performance through members’ annual completion of a comprehensive survey (further details on page 25).

Although KPI performance charts are not included in this report, we instead offer insight into progress of the global Responsible Care initiative in some key areas through the charts on pages 18-19 and in the chapter on Global Implementation, pages 24-48. The three charts provide a snapshot of the current status of associations’ commitment to advancing sustainable performance through members’ annual completion of a comprehensive survey (further details on page 25).

These are core elements of the Responsible Care initiative that we recognize as important not only to industry but also to our external stakeholders.

**Process Safety KPI**

The process safety KPI took several years to come to fruition after the ICCA Board tasked industry to come up with a globally harmonized approach to process safety in 2012. A task force comprised of multinational companies and RCLG associations worked throughout 2013 and 2014 to develop a global standard and reporting process, produce detailed guidance and introduce a flexible implementation schedule with mandatory reporting starting in 2020. Many RCLG associations are already gathering data from their membership.

Associations report two data points:

- **Total number of Process Safety Events (PSE)**, together with **total employee hours**, which is already collected under the RCLG performance metric on occupational safety rates. This enables calculation of a Process Safety Event Rate (PSER). The aggregated rate at national level will be reported publicly by ICCA when enough data is available.

A number of workshops on process safety and performance reporting have been held in all regions over the past few years and are set to continue utilizing RCLG capacity building funds and expertise.

**The China Question**

China’s chemicals sector faces very particular challenges in performance reporting. Those challenges include a lack of relevant statistical records, for example on lost time injuries, the use of different units, such as coal per ton to measure energy consumption; inconsistent scoping and definitions; and, often, a total absence of records. In the short term, this means the China Petroleum & Chemical Industry Federation is unable to collect meaningful ICCA performance data from the large enterprises and 30,000 or so SMEs that make up the chemical sector.

The association is examining its options for a reporting approach that suits the reality of China’s situation. As of mid-2018, there are a handful of actively involved companies leading the implementation of Responsible Care® in China, and they will most likely be the organizations to demonstrate what might be feasible as a step-by-step process.

**Measuring progress**

The chart on page 19 is based on responses to a questionnaire sent to all members in April 2018 and supplemented by other information sources. When reporting via the RCLG website, progress within our member associations is measured using a scale of four status levels: ‘no progress to date’, ‘developing plan’, ‘fully implemented’ and ‘updating implementation’. This scale allows for demonstration of progress even when elements are not fully implemented. The chart on page 19 reflects the approach adopted by associations for their member companies to meet the requirement to have systematic procedures in place to verify the implementation of measurable elements of Responsible Care. There are four levels of verification starting with ‘self-assessment’ as the minimum, ‘peer review’ which involves verifiers from another member company, ‘external verification’ which could refer to verifiers from the national association or another organization, and ‘third-party verification’ which involves a totally independent approach.

Out of the 62 RCLG member associations, nearly 60% completed and returned the 2018 survey questionnaire. Information from a further 36% was collated from other sources.

**ICCA’s Key Performance Indicators**

**Health & Safety**

- Number of fatalities
- Lost time injury rate, expressed as number of lost time accidents with at least one day out of work per million working hours
- New from 2019: Number of Process Safety Events; data will enable calculation of a Process Safety Event Rate (PSER), normalized on per 100 employee basis.

**Environment**

- Emissions to air: sulfur dioxide (SO2) and nitrogen oxides (NOx), expressed as metric tonnes
- Discharges to water: chemical oxygen demand (COD), expressed as metric tonnes of oxygen
- Greenhouse gas emissions, expressed as millions of direct and indirect metric tonnes of CO2 equivalents emitted
- Greenhouse gas intensity, expressed as metric tonnes of CO2 equivalents emitted per million metric tonnes of production.

**Resources**

- Energy consumption, expressed as metric tonnes of fuel oil equivalent used
- Energy intensity expressed as metric tonnes of fuel oil equivalents used per million metric tonnes of production
- Water consumption, expressed as millions of cubic meters of water consumed, with returns credited

**Distribution**

- Number of transport incidents

**Reference parameters**

- Number of employees in the chemical industry reporting
- Annual turnover and production for the chemical industry reporting

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- Number of employees in the chemical industry reporting
- Annual turnover and production for the chemical industry reporting
Commitment to advancing sustainable development

Association has programs in place that support sustainable development, specifically in regard to the social and economic pillars.

- 24% Updating implementation
- 20% Fully implemented
- 11% Developing plan
- 45% No progress to date

National association’s primary form of Responsible Care® verification

See page 17 for further detail on defining verification approaches.

- 31% Third-Party verification
- 25% External verification
- 11% Peer review
- 33% Self-assessment

The association tracks and reports performance against ICCA’s KPIs

See page 17 for list of key performance indicators.

- 68% Updating implementation
- 24% Fully implemented
- 4% Developing plan
- 4% No progress to date

“Industry is... increasingly seen as a contributor to achieving the sustainable development goals.”

JACOB DUR, CHIEF, CHEMICALS AND HEALTH BRANCH, UN ENVIRONMENT

Photo courtesy Dow Chemical Co
Capacity building enables ICCA member associations and companies to share EHS&S best practices and improve chemicals management and product stewardship throughout the supply chain. It forms an essential part of the work we do to help industry achieve the SAICM objectives.

Since the first International Conference on Chemicals Management (ICCM) in 2006, ICCA has provided capacity building support for more than 245 projects in over 45 countries, reaching thousands of individuals involved in the chemical industry, its supply chains and partner organizations, as well as governments and regulators.

In 2016, a new Capacity Building Task Force was set up to take stock of future capacity building challenges and map out a strategy for the period to 2020 and beyond. Activities include development of a comprehensive range of training materials based on modules covering all fundamental aspects of sound chemicals management. The task force implemented a results-oriented approach to track beneficiaries’ progress.

Global capacity building also involves working with regulators and the authorities to prevent illegal trafficking of chemical products, developing emergency response programs, and training distributors on safe handling. The task force, which includes representatives from ICCA’s CP&H Leadership Group, also ensures capacity building efforts include strengthening product stewardship activities and GPS implementation.

ICCA developed a Regulatory Toolbox in 2013 and updated it in 2018. This guidance highlights best practice approaches to chemical regulations and helps developing economies establish high quality chemicals management practices while reducing cost and complexity (see page 9). In addition to the Regulatory Toolbox, ICCA maintains the RCLG Library for member associations, which houses capacity building project results, implementation tools and company best practices.

Experts from leading multinationals and better-resourced associations have contributed many tens of thousands of hours in sweat equity working closely with their counterparts across the globe to expand Responsible Care® to new geographies, as well as providing support to existing RCLG members.

Efforts are focused on the following objectives:

- Strengthening the capacity of industry and governments in developing economies to implement sound chemicals management programs with a focus on local small and medium-sized enterprises through Responsible Care and risk-based regulation. This includes product stewardship, process safety, transportation safety, emergency response, product safety, and efficient regulation.
- Sharing the chemical industry’s chemicals management expertise with regulators, supporting the implementation of science-and-risk-based chemicals management schemes in countries which currently lack capacity, encouraging regulatory cooperation, promoting adoption of the UN Globally Harmonized System for Classification and Labelling of Chemicals (GHS) as a first step toward safe and responsible management of chemicals.
- Ensuring the global chemical industry is viewed as a positive contributor to safer and environmentally sound use of chemicals by key governments and intergovernmental organizations.
- Enhancing GPS awareness among key stakeholders, particularly in developing and emerging economies in order to emphasize voluntary actions underway to promote safe use and management of chemicals by producers and partners throughout the value chain.
- Enhancing local association advocacy and communications by equipping representatives with technical and practical knowledge on implementing Responsible Care and risk-based chemical regulations.
- Increasing global awareness of chemistry’s role in advancing sustainability.

Further information on capacity building activities can be found on our website at www.icca-chem.org including an ICCA Capacity Building Report.
CAPACITY BUILDING IN ACTION

International capacity building delivered by ICCA and company experts improves chemical safety in 45 countries worldwide. This chapter features a few examples of recent initiatives.

ASEAN Regulatory Cooperation

The ASEAN Regulatory Cooperation Project – an initiative based on the ICCA Global Principles for Regulatory Cooperation and led jointly by the Singapore Chemical Industry Council, American Chemistry Council and the Japan Chemical Industry Association – has held six workshops focusing on GHS alignment, chemical inventory requirements, and capacity building on prioritization of risk assessment. A meeting in the Philippines in July 2018 was attended by 40 representatives from industry associations and key government authorities from all of the ASEAN markets. Enhancing regulatory cooperation and understanding through such events has the potential to significantly reduce costs for both government and industry. It helps economies to deliver their mandate of protecting human health and the environment without creating barriers to trade, thus facilitating sound chemical management in the region. ASEAN members: Cambodia, Indonesia, Laos, PDR, Malaysia, Myanmar, Philippines, Singapore, Brunei, Thailand and Vietnam.

ABIQUIM’s Wealth of Activities

Capacity building by Brazil’s national chemical association ABIQUIM includes a range of tools and publications as well as conferences and seminars, and reaching out to people through its website. ABIQUIM is also active through working groups aimed at capacity building. The ICCA Global Product Strategy is disseminated via an 80-hour training course and is being shared with China. ABIQUIM is providing an English-language version of its PSM Management data entry file for use by members of the Asia-Pacific Responsible Care Organisation (APRCO) and offers tools such as PowerPoint presentations and quizzes which can be adapted for use by other associations.

Morocco’s Awareness-Raising Event

A high-level event was held in Morocco during the Global Strategy meeting in 2018. The event, organized by the Moroccan Chemical Industry Federation (CFP), hosted a high-level conference on chemicals management and Responsible Care for French-speaking Africa (CIF). Over 100 participants from nine countries including Côte d’Ivoire, Madagascar, Niger, Senegal and Tunisia gathered in September 2018 to hear from government ministers and speakers from the RCLG, Cefic, UNEP and OPCW. Topics focused on the key principles and benefits of Responsible Care, its contribution to sound chemicals management and SAICH, while representatives from five Moroccan companies shared experience in roundtable events.

Sharing Tools and Knowledge in Africa

European Expansion

In Europe, recent outreach by Cefic has involved Responsible Care organizations in Croatia, Belgium, Romania, Serbia and Albania. The Croatian Responsible Care Group (CROG) has also benefited from mentoring by Responsible Care New Zealand, resulting in its successful application for RCLG membership in 2017. The Romanian Chemical Producers and Distributors Association (APRODOR) is currently a candidate for future membership.

Targeted Activities in Argentina

Building events in several of the country’s largest chemical parks, offering a more efficient and cost-effective way to target companies. During the past two China Responsible Care® Conferences in 2016 and ‘17, side events brought together representatives of chemical parks, Chinese chemical companies and multi-national experts to provide examples illustrating the benefits of zero environment, health and safety incidents, strong relations with nearby communities, and emergency response. The workshops encouraged enterprises to engage with CEFICC to improve awareness of key areas such as product stewardship and to enable companies to share experiences and best practices. A third RCI forum on non-chemical parks involving ICCA/AICM/CPDF cooperation takes place in Q4 2018.

US Support for India

Since being identified as a priority region in 2013, the Indian Chemical Council (ICC) has successfully worked with several organizations to improve and expand Responsible Care in India. The American Chemistry Council and the US government’s Chemical Security Programme (CSP) have helped fund and conduct more than a dozen workshops and other events related to ICC’s development of its Responsible Care security code; efforts have also focused on updating other codes and supporting implementation materials covering product safety and stewardship, process safety and distribution. Experts from ACC and US organizations including Sandia National Laboratories, AccuTech Consulting, CRDF Global and others have provided major contributions, helping ICC enhance its Responsible Care activities and achieve increased commitment from members. These efforts build on overall capacity building in India which has received ICCA funding over the past 10 years to mainly improve product stewardship and Global Product Strategy implementation.

Sharing Tools and Knowledge in Africa

Chemical building in Africa requires the provision of tools and knowledge necessary to assist governments and business to effectively improve safety throughout the chemical lifecycle. A small RCI task force comprising American Chemistry Council, Responsible Care NZ and local multi-nationals Dow, BASF and Sasol, is assisting the Kenya Association of Manufacturers (KAM) to establish Responsible Care in Kenya. Other organizations such as UNEP, the Kenya Chemistry Society and the US-based Sandia are supporting Responsible Care as a proven program for successfully addressing the chemical safety issues in Kenya. KAM has recently received ICCA-funded support to improve safety and capacity building in Kenya. This technical cooperation is being leveraged to support KAM events and liaising with government to encourage recognition for the initiative within Kenya’s legislative and regulatory structures.

Targeted Activities in Argentina

The workshops encourage companies to improve their chemical safety management by being supported under the ICCA’s partnership with UNEP’s environment through the active involvement of industry, improved information sharing, and product stewardship activities including the organization of targeted workshops and other outreach. Working closely with the national chemicals association (CIPAR) efforts are focused on Responsible Care, chemicals management, enhancing adoption and implementation of the GHS. A meeting in April 2018, hosted by the Argentine Ministry of Environment and Sustainable Development in Buenos Aires and held in cooperation with UNEP’s Programme and ICCA, sought to strengthen joint efforts between government authorities, industry, the UN and other stakeholders in order to improve chemicals and waste management at the national level. The event attracted around 250 participants and 11 different government ministries together with value chain representatives.

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All national chemical associations that belong to the ICCA’s Responsible Care Leadership Group are required to submit an annual report on their implementation status. This chapter provides information on the 62 RCLG members as of mid-2018.

A new website launched during 2018 collects data on ICCA Key Performance Indicators and implementation progress as outlined on pages 15-17. However, as it was not yet fully operational in time to collate information for this report, a questionnaire was circulated to the membership to enable preparation of this section.

Survey Compilation
Of the 62 associations surveyed, 37 returned the completed questionnaire. A further 12 responded in an abbreviated format. Some listings were compiled based on responses to 2016 Cefic survey. The National Association listing is not a comprehensive summary of each and every member’s Responsible Care program, and is not always a reflection of the maturity or effectiveness of an association’s RC activities. Information has also been drawn from other sources such as websites. Most data relates to RC programs in 2018. Note for chapters in this report feature additional information on several individual National Association activities.

37 National Associations completed the 2018 survey of their Responsible Care program. Limited information was received from a further 12 associations giving us data on implementation progress from a total of 79% of RCLG members.

The following figures are based on responses to the 2018 survey only.

Under the section on Implementation programs and tools (a series of systems, codes, guidance and checklists to assist companies to implement the commitment), 27 associations now also include materials applying to the physical security of chemical facilities and systems.

Under Governance processes - how best to encourage all member companies to commit to and participate in the program – Responsible Care is a condition of association membership at 18 associations with at least 3 indicating that they plan to make it mandatory within the next few years. 27 associations have a process in place to assist companies not meeting Responsible Care obligations, at 12 of these associations, the process results in removal from the initiative if progress not achieved after due process.

Under the section covering stakeholder outreach and communication on EH&S matters, 25 have established mechanisms or tools to obtain input on issues or concerns from interested parties outside the industry.

A dedicated section covering various product related topics included a question on whether the organization has advocated with national government regarding adoption of the Globally Harmonized System (GHS) for Classification and Labelling, to which 34 – or more than 90% responded positively.

Commonly used abbreviations
CoP = Code of (Management) Practice
CSR = Corporate Social Responsibility
EH&S/EHS&S = Environment, health & safety / & security
GPS = Global Product Strategy
KPI = Key Performance Indicator
LSP = Logistic service provider
MOU = Memorandum of Understanding
RC = Responsible Care
RCGC = Responsible Care Global Charter
RCMF = Responsible Care Management Framework
RCMS = Responsible Care Management System
SD = Sustainable Development
SQAS = Safety and Quality Assessment System

If you require further information, please use the contact data provided to reach a member association.
Joint efforts will also focus on adoption of internationally recognized best practices in Dangerous Goods Transportation, the GHS and industrial hygiene. Cooperation framework in areas of mutual interest eg technical standards development and information sharing. Annual awards program linked to workshops and outreach campaigns; lessons learned and success stories a mandated integral part of the GPCA RC program. A peer review program for business partners, international manufacturers and/or small producers.

**FACTFILE**

- **RESPONSIBLE CARE COMPANIES:** 29 Full Members + 9 LSPs
- **MEMBERSHIP:** 250
- **Adopted Responsible Care in 2009**
- **www.gpca.org.ae/rc**
- **kashif@gpca.org.ae**
- **Sheikh Zayed Road - Dubai - United Arab Emirates**

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**ARGENTINA**

**CIQyP**

Clímano de la Industria Química y Petroquímica
Avda. Cordoba 639 - Piso 4 - Buenos Aires
Rolando Garcia Valverde
rvalverde@ciqyp.org.ar
Hector Mario Benavidez
hbnavidez@ciqyp.org.ar

**FACTFILE**

- **Adopted Responsible Care in 1992**
- **MEMBERSHIP:** 130
- **RESPONSIBLE CARE COMPANIES:** 40
- RC companies must complete annual self-evaluations: In 2019 the Argentine Accreditation Organization accredited DIN 67 to carry out external verification and certification.
- CIQyP has developed courses to support companies on adoption of the GHS, a legal requirement for the workplace.
- In April 2018, industry, government and international experts met in Buenos Aires to support strengthening the sound management of chemicals and waste in Argentina, including enhancing regulatory frameworks, RC implementation and awareness (see page 23 and photo above).
- Under voluntary agreements, the RC initiative and its legal predecessor since 1996 through the Transport of Dangerous Goods Association (ATC) and since 2002 with the Association for Treatment of Hazardous Waste (ATRAP).

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**AUSTRALIA**

**Chemistry Australia**

Level 11, 10 Queen Street
Melbourne Vic 3000
Bernard Lee
bl@chemistryaustralia.org.au

**FACTFILE**

- **Adopted Responsible Care in 1993**
- **MEMBERSHIP:** 59 + 11 Partners
- **RESPONSIBLE CARE COMPANIES:** 22
- **Sustainability - the Social licence to operate - is fundamental to Chemistry Australia’s work. Social licence is one of the eight fundamentals described in the Strategic Industry Roadmap and is a priority for members along with policy and regulatory priorities. RC revamp project underway to strengthen links between RC and social licence/sustainability.
- **Latest Health & Safety Performance Report:** no fatalities reported by members for 2017, companies posted an improvement in the total recordable injury frequency rate. Members continued to improve on Lost Time Injury Frequency Rate (LTIFR) (year on year, average), achieving a reduction for the 10th consecutive year.
- **Members support the sharing of best practices and learnings through the performance report; the performance report includes numerous case studies and insights provided by members. A confidential Chemistry Australia Health and Safety Benchmarking Report is provided exclusively to participating companies, promoting internal discussion, new insights and generating ideas for the workplace.**
- **AUSTRIA**

**PCSO**

Austrian Chemical Industry
Wiedner Hauptstrasse 63
Vienna A-1045
Dr. Dominik Schroeder
schroeder@pcso.at

**FACTFILE**

- **Adopted Responsible Care in 1992**
- **MEMBERSHIP:** 245
- **RESPONSIBLE CARE COMPANIES:** 39 (~33% of total value of ~US$5bn)
- **Voluntary agreement to zero pellet loss** with Ministry of Sustainability and Tourism, responsible for environmental protection.
- **Implementation is monitored through a well-established third-party RC auditing process in a three-year cycle. In terms of objectives and procedures, the initiatives is similar to EMAS and was ISO 14001, the key difference is that RC also covers occupational safety and health. Assessment of a company's operations is carried out by two external independent auditors. It requires compliance with all legal obligations and involves around 300 questions covering energy waste disposal, storage, employee protection, industrial accident prevention, environmental organization and others.**
- **Thanks to its rigorous high standards, RC achieved legal recognition in Austria in 2013 giving certain benefits for certified companies under the Environmental Management Act. In 2014, RC was recognized under the Energy Efficiency Act allowing certified companies to make use of an internal rather than an external energy audit.**
- **FCDO celebrated its 25th RC anniversary in 2017. The program requirements go beyond the legal requirements and regulations in force in Austria.**

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**BRAND**

**ABIQUM**

Associação Brasileira da Indústria Química
Av. Chedid Jafet 223 – Bloco C, 4º andar
04531-065 – Vila Olímpia
São Paulo – SP
Luiz Chávez Harayashiki
lchavez@abiquum.org.br
www.abiquum.org.br

**FACTFILE**

- **Adopted Responsible Care in 1992**
- **MEMBERSHIP / RESPONSIBLE CARE COMPANIES:** 185 + 45 partners
- **MEMBERSHIP:** 598 + 11 Partners
- **Adopted Responsible Care in 1991**
- **www.abiquum.org.br**
- **shizuo@abiquum.org.br**
- **Av Chedid Jafet 222 – Bloco C, 4º andar
- 04531-065 – Vila Olímpia
- São Paulo – SP
- 80 Boulevard Auguste Reyers, B-1030 Brussels
- BELGIUM
- 118 + 45 partners
- **www.ciqyp.org.ar**
- **Luiz Chávez Harayashiki
- lchavez@abiquum.org.br**
- **Av Chedid Jafet 223 – Bloco C, 4º andar
- 04531-065 – Vila Olímpia
- São Paulo – SP

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**REPUBLIC OF KOREA**

**ESSENCE**

80 Boulevard Auguste Reyers, B-1130 Brussels
Sophie Bracke
sbracke@essencea.be
www.essencea.be

**FACTFILE**

- **Adopted Responsible Care in 1999**
- **RC = Mandatory**
- **MEMBERSHIP / RESPONSIBLE CARE COMPANIES:** 220
- **MEMBERSHIP:** 130
- **Adopted Responsible Care in 1992**
- **www.essencea.be/sustainability**
- **It fully supports development and promotion of RC via dedicated activities such as specific training for sales chemicals management. For example, over the past 10 years more than 200 workshops have been organized for Belgian chemical companies supporting the implementation of REACH legislation via dedicated trainings, experience sharing by mentors and providing individual assistance on being REACH compliant.**
- **essenceA teamed up with tank cleaning association EFTCO, chemical transport body EICTA and Cefic to develop an electronic EFTCO Cleaning Document (e-ECD), a digital data exchange platform providing information on the cleaning of transport tanks. 23 companies currently provide financial support for the initiative which will be launched in 2019 and available to more than 600 companies across Europe. The platform will improve security and increase efficiency in logistics and transport.**

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Canadian Chemistry Industry Association of Canada (CIAC)

CIAC is a leading voice of the Canadian chemical industry. It represents over 400 companies, including manufacturers, distributors, and service providers, working to advance sustainability, innovation, and safety in the chemical sector.

CIAC's mission is to promote responsible practices and initiatives within the chemical industry. It aims to achieve this by:

1. Engaging with stakeholders to influence policy and regulations
2. Providing training and education to industry professionals
3. Supporting research and innovation in sustainability
4. Advocating for responsible practices and effective communication

CIAC is committed to promoting responsible care in the chemical industry, ensuring that members adhere to the highest standards of safety, environmental protection, and social responsibility.

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cooperating with CPCF to support the spread of sustainability.

Program includes the 6 state-issued CoPs under the China RC Standard. Community Awareness and Emergency Response, Distribution Safety, Occupational Health and Safety, Process Safety, Pollution Prevention. ACM has also developed 7th Security Code aimed at ensuring security practices in all member companies.

A self-assessment checklist and peer review checklist covers the 6 CoPs. An Award ceremony recognizes members’ achievements.

In 2008 and 2014, ACM organized special group signing ceremonies for member company leadership on the Responsible Care Commitment and repeated it for the Global Charter in September 2018 (photo, previous page).

ACM promotes RC to Chemical Parks and cooperatives with CPCF on the RC Conference and technical workshops. Recent capacity building has focused on process safety self-assessment and compliance-related training. Open Days have taken place for past decades; meetings are held with government and university sites, and RC is promoted to suppliers and customers.

ACM includes value chain partners in capacity building events on risk assessment; the ICCA Risk Assessment guidance has been translated and posted on the ACM website.

A road safety assessment system (based on CPCF’s SQAS) enables LSPs to aim for continuous improvement in chemicals transport safety based on assessment audits.

CHINESE TAIPEI

TRCA
Taiwan Responsible Care Association
7F, No. 8, Pushan St.,
Changhua District,
Taichung City, 40452.
Yehata Hsii
trca@acoplastics.org
www.trca.org.tw

FACTFILE
Adopted Responsible Care in 1997

RC – Mandatory
MEMBERSHIP: RESPONSIBLE CARE COMPANIES: 71
A Task Force has been established to discuss TRCA action plans online with the LNS SDGs.

TRCA approach based on 6 CoPs
Currently working to adopt RNMS [developed by ACC] and in the process of introducing RC1.001 audit for manufacturing members; current verification involves self-assessment + peer review. Transport companies participate as associate members.

Periodic task force discussions, symposiums, workshops and conferences are held for CEOs and RC Coordinators.

Full range of KPIs and performance improvement processes include publicizing aggregated company performance.

By law, producers, LSPs and importers are responsible for transport safety of toxic chemicals. These parties must be on the scene of an accident or leakage caused by a transport accident within 2 hours. To support this, TRCA has established mutual aid teams for 17 toxic chemical substances; prior joining, member firms must prove they are qualified and have the capabilities needed to handle the substance. Service providers must undergo SQAS verification to join.

A team of workshops helped raise awareness of product stewardship and GPS with support from RCLA and P&G (see photo). TRCA and leading member companies have also raised awareness of risk assessment and risk management with EPA Toxic and Chemical Substance Bureau and EIA and Groundwater Pollution Remediation Funds.

TRCA holds regular Public Advisory Panel meetings and encourages members to hold open door sessions.

COLOMBIA

RI Committee
Colombian Plastic Industries Association – ACOPLASTICOS
National Business Association of Colombia – ANDI
Colombian Safety Council – CCS
Calle 69 # 5-33 Bogota, D.C.
Ana Maria Ocañan
gerenciaplasticos.org / renta@responsabilidadintegral.org www.responsabilidadintegral.org

FACTFILE
Adopted Responsible Care in 1994

RESPONSIBLE CARE COMPANIES: 46 with sales ~US$3.5 bn

The above organizations – ACOPLASTICOS, Andi and CCS – jointly promote RC through the Responsible Care/Integral (RI) Program.

In 2005, 88% of member CEOs signed the commitment based on the Global Charter; in a 2018 renewal process, 54% had ratified it by mid-year with most companies. Most RC activities are at an early stage, compliance with Coreelfo EU legislation is the baseline. CCIA / CRCG workshop on Process Risk Assessment with support from CEFC and company experts scheduled for Q3 2018.

RCGs have received extensive capacity building support and mentoring from RCLA and Cefic to prepare for RGLS membership.

CROATIA

CCIA CRCG
Croatian Chemical Industry Association,
Croatian Responsible Care Group
Croatian Chamber of Economy
Dreadkovicova 45, HR-10000 Zagreb
Renata Florjanić
rfilancija@cph.hr
www.cph.hr

FACTFILE
Adopted Responsible Care in 2015

MEMBERSHIP: RESPONSIBLE CARE COMPANIES: 9 with sales ~423 mn
The Croatian Chemical Industry Association (CCIA) is part of the Croatian Chamber of Economy (CCE), all chemical companies are CCIA members.

An 8 member the Croatian Responsible Care Group (CRCG) has not had an opportunity to collect KPI data from its member companies. Most RC activities are at an early stage; compliance with Coreelfo EU legislation is the baseline. CCIA / CRCG workshop on Process Risk Assessment with support from CEFC and company experts scheduled for Q3 2018.

CPCF received extensive capacity building support and mentoring from RCLA and Cefic to prepare for RGLS membership.

CZECH REPUBLIC

SCPH CR
Association of Chemical Industry of the Czech Republic
Rudolfova 39/37, 190 00 Prague 9 – Vysočany
Ladislav Špaček
lspacek@scph.cz
www.schp.cz

FACTFILE
Adopted Responsible Care in 1994

MEMBERSHIP: 13
RESPONSIBLE CARE COMPANIES: 84

The Sustainable Development Award of SCHP CR, launched in 2006 and aligned with the Global Charter, has been awarded to 13 companies.

A 4-part program involves secondary schools, technical universities and non-profit organizations. SCHP CR has a voluntary agreement with the Ministry for the Environment, for example, for the spread of sustainability.

Program includes the 6 state-issued CoPs under the China RC Standard. Community Awareness and Emergency Response, Distribution Safety, Occupational Health and Safety, Process Safety, Pollution Prevention. ACM has also developed 7th Security Code aimed at ensuring security practices in all member companies.

A self-assessment checklist and peer review checklist covers the 6 CoPs. An Award ceremony recognizes members’ achievements.

In 2008 and 2014, ACM organized special group signing ceremonies for member company leadership on the Responsible Care Commitment and repeated it for the Global Charter in September 2018 (photo, previous page).

ACM promotes RC to Chemical Parks and cooperatives with CPCF on the RC Conference and technical workshops. Recent capacity building has focused on process safety self-assessment and compliance-related training. Open Days have taken place for past decades; meetings are held with government and university sites, and RC is promoted to suppliers and customers.

ACM includes value chain partners in capacity building events on risk assessment; the ICCA Risk Assessment guidance has been translated and posted on the ACM website.

A road safety assessment system (based on CPCF’s SQAS) enables LSPs to aim for continuous improvement in chemicals transport safety based on assessment audits.

CHINESE TAIPEI

TRCA
Taiwan Responsible Care Association
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www.trca.org.tw

FACTFILE
Adopted Responsible Care in 1997

RC – Mandatory
MEMBERSHIP: RESPONSIBLE CARE COMPANIES: 71
A Task Force has been established to discuss TRCA action plans online with the LNS SDGs.

TRCA approach based on 6 CoPs
Currently working to adopt RNMS [developed by ACC] and in the process of introducing RC1.001 audit for manufacturing members; current verification involves self-assessment + peer review. Transport companies participate as associate members.

Periodic task force discussions, symposiums, workshops and conferences are held for CEOs and RC Coordinators.

Full range of KPIs and performance improvement processes include publicizing aggregated company performance.

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Dreadkovicova 45, HR-10000 Zagreb
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Rudolfova 39/37, 190 00 Prague 9 – Vysočany
Ladislav Špaček
lspacek@scph.cz
www.schp.cz

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Adopted Responsible Care in 1994

MEMBERSHIP: 13
RESPONSIBLE CARE COMPANIES: 84

The Sustainable Development Award of SCHP CR, launched in 2006 and aligned with the Global Charter, has been awarded to 13 companies.

A 4-part program involves secondary schools, technical universities and non-profit organizations. SCHP CR has a voluntary agreement with the Ministry for the Environment, for example, for the spread of sustainability.
panies, and in other RC-related activities. Companies provide technical support on several issues including RC, security risk assessment. Periodic networking meetings with member building activities are focused on chemical safety and security, chemical workshops and training to raise company awareness and related them to share their initiatives to enhance awareness among Egyptian in 2014, aimed at SMEs that are undertaking SD activities and encouraging “Pioneer business annual competition to achieve sustainable development” cooperating closely with Chamber of Chemical Industries together Egypt’s RC activities are at a relatively early phase. industrial sector in the field of environmental compatibility, environmental management, and energy efficiency. As one of the newer RCLC members, Egypt’s RC activities are at an early stage. The RC committee was set up early 2016 with FEI ECO technical experts cooperating closely with Chamber of Chemical Industries together with ACC, mentoring support to draft a letter of commitment and guiding principles. Companies signed up at the RC launch conference in December 2016. ECO is a member of the UN Global Compact and launched the “Pioneer business annual competition to achieve sustainable development” in 2014, aimed at SMEs that are undertaking SD activities and encouraging them to share their initiatives to enhance awareness among Egyptian companies. RC implementation practices via CoPs, FEI ECO held a series of workshops and training to raise company awareness and related stakeholders about RC and RC codes. Additional training and capacity building activities are focused on chemical safety and security, chemical security risk assessment. Periodic networking meetings with member companies provide technical support on several issues including RC. ACC has supported FEI ECO to conduct RC site visits to assess companies, and in other RC-related activities.

ESTONIA

FEI
The Federation of Estonian Chemical Industries
www.eco-fei.org

FACTFILE
Adopted Responsible Care in 2002
MEMBERSHIP: 45
RESPONSIBLE CARE COMPANIES: 38

FACTFILE
Adopted Responsible Care in 1992
MEMBERSHIP: 80
RESPONSIBLE CARE COMPANIES: 13

EMILIA-ROMAGNA

FEI
Federation of Italian Chemical Industries
www.feic.it

FACTFILE
Adopted Responsible Care in 2002
MEMBERSHIP: 150
RESPONSIBLE CARE COMPANIES: 50

FINLAND

KRY
Chemical Industry Federation of Finland
Eteläranta 10, P.O. Box 4, FIN-00131, Helsinki

Alexandra Pelti / Maarja Vuori
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FACTFILE
Adopted Responsible Care in 1992
MEMBERSHIP: 400 + 13 Associations
RESPONSIBLE CARE COMPANIES: 58 – BPI of total production
RC program implementation is coordinated by KRY. The Industrial Union, Trade Unions and the Federation of Professional and Managerial Staff participate in program monitoring and development. Under the RC program, corporate responsibility is based on strong interaction and clear goals. Central themes include: Sustainable use of natural resources, Sustainability and safety of production and products; Well-being of the work community; Open interaction and co-operation. The development of companies’ corporate responsibility work is supported through cooperation in new projects and development projects. The results of corporate responsibility work are monitored through indicator data collected annually. KRY supports member companies through training and advice, as well as through RC.

KRY issues a comprehensive RC report, including, for example, breakdown of material and energy streams. Results for about 50 indicators are reported annually and provide information on investment, resource efficiency, emissions, occupational safety and wellbeing, product chains and interaction and collaboration.

FRANCE

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La Déliree Coex
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www.uic.fr

FACTFILE
Adopted Responsible Care in 1990
MEMBERSHIP: 793
RESPONSIBLE CARE COMPANIES: 137

GERMANY

VCI
Verband der Chemischen Industrie e.V.
Mainzer Landstrasse 55, 60329
Frankfurt am Main
Marina Schmiermacher
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www.responsible-care.de

FACTFILE
Adopted Responsible Care in 1991
MEMBERSHIP / RESPONSIBLE CARE COMPANIES: 1,000 with total sales €176bn
MEMBERSHIP covers wide mix including sites, SMEs, and sectors association members. In 1995, the VCI general assembly agreed with industry, CTU, safety, quality, the sustainability initiative of the German chemical industry Chemie³ was founded in May 2013 by VCI together with the Federal Employers Association for Chemicals (BAUC) and the labor union (IG BCE) in order to embed sustainability as a guiding principle in the German chemical industry and to expand the industry’s contribution to SD. Chemie³ has developed a “Guidelines for Sustainability for the Chemical Industry in Germany” and supports its members in their applications in everyday business. Recent activities include development of support materials. Chemie³ Sustainability check, Guide to supply chain management, and a Guide to sustainability reporting.


Annual KPI reporting on full set of indicators as basis for the VCI Responsible Care report.

Self-assessment is the primary method of verification. VCI itself is third party verified annually and the certificate is attached to the RC report; detailed audit report is not published.

Partnership Agreement with Verband Chemiehandel e.V. (association of chemical trade) includes annual exchange on current topics, and participation in VCI workshops twice a year.

Product stewardship-related issues are mostly implemented in Europe via REACH, CLP and sector specific regulations. In addition to REACH implementation the VCI has various initiatives e.g. cooperation with authorities on Nano (Nanodag) and Human Biomonitoring (HBM).

Emergency response system, TUIS, long established and integrated with activities, level 1 (most serious) extends to technical assistance at accident site with special equipment and operating know how by chemical firefighting.

Member companies have signed the Global Charter.
**Greece**

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hay@hayhaci.gr / y.kouki@hayhaci.gr
www.haci.gr

FACTFILE
Adopted Responsible Care in 1995
MEMBERSHIP: 72
RESPONSIBLE CARE COMPANIES: 32

**Hungary**

MAVESZ
Hungarian Chemical Industry Association
Lajos utca 74-76, 1036 Budapest
Magda Gašpar
magdaga@mavesz.hu
www.mavesz.hu

FACTFILE
Adopted Responsible Care in 1995
MEMBERSHIP: 52
RESPONSIBLE CARE COMPANIES: 32 with ~95-99% of total sales
Sustainable development issues are a priority and MAVESZ supports member companies’ efforts through meetings and conferences offering information and experience sharing.
Most member companies have signed the RC Guiding Principles at CEO level. MAVESZ holds regular awareness events and communicates through the website and in monthly information bulletins. It also organizes regular meetings and yearly conference on HSE-RC for senior executives and middle management.
RC implementation is full scale of CoPs. Most member companies operate quality, environmental and safety management system.
In 2014 MAVESZ started development of an external, independent verification program for measuring RC compliance, completing the scheme to review transporters’ performance and establish additional safeguards for products moving throughout the country.
Several sector-specific, plus formulators association, are affiliate members of MAVESZ and involved in RC dialogue. Logistics companies also join as associate members and intend to implement RC.
MAVESZ has MOU with Gujarat Pollution Control Board (GPCB) which entitles RC logo holding companies to operate for an extended period and be considered for fast track environmental clearances.
Nicer Globe includes agreements with Maharashtra Pollution Control Board and CPCB.

**India**

ICC
Indian Chemical Council,
Sir Vithaldas Chambers,
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Mumbai – 400 001

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iccm@iccm.in / tirm.hote@gmail.com
www.indianchemicalcouncil.com

FACTFILE
Adopted Responsible Care in 1993
MEMBERSHIP: 421
RESPONSIBLE CARE COMPANIES: 151 with ~US$54bn sales; 55 RC audited ~US$15bn sales

☑ SD see panel, page 13
☑ Verification audits, carried out in three-year cycles, ensure program elements are in place; test the company’s commitment to RC and review CIIP activities. As of 2018, of the 151 companies signed up to RC, 50 have gone through the ICC verification process that entitles them to use the logo. Verification is carried out by panel of ICC auditors mainly from RC companies or retired with RC experience.

☑ ICC has adopted RCMS to support implementation of CoPs. Association conducts training programs on product safety and stewardship, environment protection, emergency response and transportation. More recently ICC introduced soakdrop code and has held several training programs with support from ACC, the US State Chemical Security Program and other overseas experts.

☑ Companies share experience & best practices during their participation in annual ICC awards.

☑ ICC established the Nicer Globe Initiative enabling real-time electronic tracking and monitoring of chemicals and hazardous waste transport and involving increasing numbers of manufacturers and logistics service providers. Major routes have been mapped including key points of interest such as fire stations, hospitals, logistics providers and chemical companies, enabling prompt information retrieval and support in the event of an emergency.

☑ More than 125 ICC member and 100 transportation companies actively participate in Nicer Globe. ICC companies use information captured under the scheme to review transporters’ performance and establish additional safeguards for products moving throughout the country.

☑ Several sector-specific, plus formulators association, are affiliate members of ICC and involved in RC dialogue. Logistics companies also join as associate members and intend to implement RC.

☑ ICC has MOU with Gujarat Pollution Control Board (GPCB) which entitles RC logo holding companies to operate for an extended period and be considered for fast track environmental clearances. Nicer Globe also includes agreements with Maharashtra Pollution Control Board and CPCB.

**Indonesia**

RCI
Responsible Care Indonesia
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www.responsiblecare-indonesia.or.id

FACTFILE
Adopted Responsible Care in 1997
MEMBERSHIP: 44
RESPONSIBLE CARE COMPANIES: 400-500 member associations

☑ Indonesia has several chemical industry associations, two of the largest being INAPLAS covering olefins, aromatics and plastics (~60 member companies) and FRI, the Federation of Indonesian Chemical Industry Associations, comprising ~150 associations (~150 companies) RC companies account for less than 10% of total.

☑ Manufacturers’ implement all 7 CoPs, associate members include supply chain companies, LSPs, and hazwaste processing companies and must apply at least 4 RC codes. Companies participate in training workshops, also in best practice sharing program for the implementation of each RC CoP which is conducted as a satellite to various working companies.

☑ RCI member companies submit annual KPI reports.

☑ Annual self-assessment, also verification by RCI which utilizes independent competent verifiers, often retirees from RCI member companies. RCI verification is a 3-year cycle and successful companies are entitled to use the logo, valid for 3 years. RCI Award Program held every second year.

☑ Most RCI companies are committed to advancing sustainable development but RCI itself is still at early stage and needs support at ICC/RCMS level to advance capacity building and other means.

☑ Capacity building support – particularly from Japan’s JCCA, ACC and other US organizations – continues to be important to enable RCI activities to advance training on RC Security Code improvement and process-safety training feature in 2018 and beyond (photo above).

☑ Face to face RCI leadership meetings take place at least every two months, web q & a sessions such as Regulatory Affairs and Capacity Building teams at least bi-monthly.

☑ A “Road-Shoe” enables RCI to communicate RC program both on company production sites and to relevant government agencies.

**Ireland**

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FACTFILE
Adopted Responsible Care in 1992
MEMBERSHIP: 65
RESPONSIBLE CARE COMPANIES: 44

☑ Member companies report annually on performance on several KPIs which are similar to both Environmental Protection Agency (EPA) and Health & Safety Authority (HSA) reporting requirements. 2018 marks the sixth year since introduction of a web-enabled online data collection system which has facilitated significantly more efficient data collection and analysis.

☑ BPCI self-assessment codes had all reached maturity and were discontinued in 2018 in order to focus on using the indicator data for benchmarking purposes.

☑ The upward trend of the lost time injury rate has been reversed, last year achieved a record low level of 0.1 per million hours worked.

**Israel**

MAI/CPECS
Manufacturers’ Association of Israel (MAI) / Chemical, Pharmaceutical & Environmental Society
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Carmel Feldman
chemical@industry.org.il
www.industry.org.il

FACTFILE
Adopted Responsible Care in 2001
MEMBERSHIP: 115
RESPONSIBLE CARE COMPANIES: 14

☑ Israeli chemical companies are strongly engaged in sustainable development, involving significant investment (~€181bn in 2018). All main environmental indicators register positive performance and the chemical industry is now one of the safest sectors in industry.

☑ Since 2005, the National Institute for Insurance against Injuries at Work (NIAI) had an agreement with Federchimica to provide discounted rates for RC companies. The agreement, renewed in 2011 and 2016, recognizes companies’ workplace accident prevention and safety promotion efforts.
Japan

JCIA

The Japan Chemical Industry Association (JCIA) is a representative organization of chemical companies in Japan. JCIA was established in 1927 and has more than 100 members.

JCIA has been playing a leading role in various initiatives in the chemical sector.

advertising or peer review assessment are the main verification approaches, external RC verification exists but is not common.

Quarterly meetings for senior industry executives include discussion of RC and its promotion in the region.

Under agreements with local government, chemical production sites are involved under the Cefic scheme SQAS, which offers an RC approach to country-specific requirements.

Latvia

LCPIA

The Association of Latvian Chemical and Pharmaceutical Industry (LCPIA) was established in 1991 and has around 300 members.

LCPIA has been actively participating in initiatives such as Responsible Care (RC) and SQAS.

Lithuania

LChP

The Association of Lithuanian Chemical Industry Enterprises (LChP) was established in 1991 and has around 200 members.

LChP has been promoting Responsible Care (RC) and SQAS in Lithuania.

Mali

MAI

The Mali Association of Chemical Industry (MAI) was established in 1991 and has around 50 members.

MAI has been promoting Responsible Care (RC) and SQAS in Mali.

Mexico

ANIO

The Mexican Association of Chemical Industry (ANIO) was established in 1993 and has around 250 members.

ANIO has been promoting Responsible Care (RC) and SQAS in Mexico.

Morocco

FCP

The Federation of the Moroccan Chemical Industry (FCP) was established in 1993 and has around 100 members.

FCP has been promoting Responsible Care (RC) and SQAS in Morocco.

FACTFILE

Adopted Responsible Care in 2015

MEMBERSHIP: 125 (~US$5bn sales)

RESPONSIBLE CARE COMPANIES: 56 (~US$53bn sales)

FCP has started to develop a sustainability program and set of principles after sponsoring a 2015 doctoral study about social practices which aim to promote the ISO social responsibility standard, and has doubled the number of companies involved as a result. On the economic side, FCP signed an official agreement with the government to support the chemical sector in development of two ecosystems (green & organic) by attracting new investment opportunities and promoting domestic employment.

System management and codes support RC implementation. FCP ensures core principles are implemented by holding EHS Committee monthly meetings at member company sites in a semi-formal format. Self-assessment is the main form of RC verification.

Development of full set of KPIs has room for improvement. Basic worker EHS, energy and water consumption are main indicators at the current time.

Students of annual workshops targeting a specific theme and audience. The event is also an opportunity to attract new RC members and/or review RC commitment. Each year since 2014 FCP has invited 6 company CEOs to formally sign the FCP Charter principle.

Morocco has adopted the UN’s GHS and activities include spreading good practices on the system with member companies and the wider chemical sector. FCP has an agreement with the Ministry of Environment on mutual assistance regarding development and implementation of regulations applied to the chemical sector under GHS.

FCP hosted an important capacity building event in September 2018 to outreach to African French-speaking countries and expand RC (see page 23 and photo below).

Overview of RC implementation in Morocco

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MYANMAR

MIA MRCC
Myanmar Responsible Care Council
Myanmar Industries Association
No. 29, MIA, UMCCI Tower
Min. Ye Kyaw Street
Lammadaw Tip, Yangon, Myanmar
Naing Aye
naingayee@gmail.com

FACTFILE
Adopted Responsible Care in 2012
MEMBERSHIP: 50
RESPONSIBLE CARE COMPANIES: 10
As part of MIA, the Myanmar RC Council activities include RC and sustainability awareness training with workshops on self-verifying and auditing, KPIs, future planning, knowledge sharing and cooperation with stakeholders including other national chemical associations. MRCC also enables information sharing and exchange to improve overall quality of activities. RC awareness raising and expansion through visits to Industrial Zones, and activities shared through industry newsletters.
Management system approach is supplemented by codes and checklists. Companies commit to priority setting for CaPs and establishing RCMS.
Self-assessments are audited by MRCC.
KPIs are discussed with government and cover GHG, SD, NOx but cannot yet be reported by all RC companies; government support required to ensure sufficient data measuring and technical help.
MRCC has benefited from capacity building support at company and association level and continues to seek assistance from other national associations to build on, for example, process safety training delivered by JCIA.
MRCC members are aware of GPs but need expert training and guidance. Adaption of GHG by chemical importers and manufacturers.
Cooperation/commitments with following Government Ministries: Industry to introduce risk assessment activities and hazards.
Environment, on conservation and hazardous waste control; Transport, covering Dangerous Goods; Home Affairs for control of chemical precursors; Labour for H&S. Cooperation also with supply chain partners, with one trading company implementing RC.

NEDERLANDS

VINCI
Association of the Dutch Chemical Industry
PO. Box 443, 2260 AK, Leidschendam

FACTFILE
Adopted Responsible Care in 1990
RC = Mandatory
MEMBERSHIP: RESPONSIBLE CARE COMPANIES: 63
VINCI membership ranges from manufacturers and importers to waste disposal operators, representing the entire chemical production lifecycle.
Partners include government agencies, local authority tiers, the Armed Forces and the Healthcare sector.
VINCI Members commit to the ECA Global Charter: The New Zealand programme has evolved over 25 years to meet the specific requirements of 52 MNEs, together with national sustainability aspirations.
An innovative chemical management regime incorporating the UN GHS and UN Dangerous Goods (DG) systems provides a seamless transition for chemicals from transport to use in workplaces.
VINCI Codes of Practice enabling compliance with key chemical management requirements such as GHS-compliant Safety Data Sheets (SDS), labels, storage, site signage and emergency preparedness are reflected in national workplace health and safety legislation and enforced by government agencies. These disciplines, together with best practice, are implemented through corporate product stewardship initiatives and are assessed in a comprehensive, three-tier site-based and compliance evaluation.

NEW ZEALAND

RNZC
Responsible Care New Zealand Inc
PO Box 3557 Wellington 6145
Barry Dyer
barry@responsiblecare.nz
www.responsiblecare.nz

FACTFILE
Adopted Responsible Care in 1989
RC = Mandatory
MEMBERSHIP: RESPONSIBLE CARE COMPANIES: 103
RNZC membership ranges from manufacturers and importers to waste disposal operators, representing the entire chemical production lifecycle.
Partners include government agencies, local authority tiers, the Armed Forces and the Healthcare sector. RNZC Members commit to the ECA Global Charter: The New Zealand programme has evolved over 25 years to meet the specific requirements of 52 MNEs, together with national sustainability aspirations.
An innovative chemical management regime incorporating the UN GHS and UN Dangerous Goods (DG) systems provides a seamless transition for chemicals from transport to use in workplaces.
RNZC Codes of Practice enabling compliance with key chemical management requirements such as GHS-compliant Safety Data Sheets (SDS), labels, storage, site signage and emergency preparedness are reflected in national workplace health and safety legislation and enforced by government agencies. These disciplines, together with best practice, are implemented through corporate product stewardship initiatives and are assessed in a comprehensive, three-tier site-based and compliance evaluation.

NETHERLANDS

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Association of the Dutch Chemical Industry
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www.vinci.nl / www.responsiblecare.nl

FACTFILE
Adopted Responsible Care in 1990
RC = Mandatory
MEMBERSHIP: RESPONSIBLE CARE COMPANIES: 150–95% of total sector
VNCI has a well-established and comprehensive RC program in place and fully aligned with Responsible Care Global Charter (see dedicated website) and reinforced by SD program with three lines of action: a low carbon economy delivered through an Energy Roadmap towards 2050; a minimal impact on people and environment, delivered through RC and a positive contribution to wellbeing and welfare with activities delivered via KPIs under industry’s contribution to the UN SDGs (under development).
Companies define and implement their RC program; SFMs account for less than 10% of Dutch chemical sector. The program’s maturity means overall RC is well understood so specific themes are addressed in meetings. The VNCI Policy group Sustainable Development manages the overarching RC program, while Policy group Health, Safety and Environment takes care of the HSE related RC topics.
Comprehensive set of KPIs with product stewardship addressed through legally binding REACH legislation and at company strategy level including areas such as sustainability, value chains and product development/improvements such as chemical recycling due to circular economy and low carbon economy.
Association and companies put major efforts in improving the value chain consequences of chemical production and products.
Verification via associations or peer review assessment; external, 3rd party verification of association by KPMG. Sustainability Future requested improvement steps cannot be supported by an external verifier or certification institute due to their nature. A dedicated RC dashboard is available to members only and includes site scores against average association levels.
Voluntary agreements cover value chain, sustainable safety 2030, programs related to international CSR, climate change, LN Guiding Principles, the circular economy and resource efficiency.
The public in the Netherlands is well aware of chemical issues, chemical information is a legal obligation and mainly communicated via government-controlled databases.
The 25th RC anniversary was marked with a dedicated brochure and meeting.

NORWAY

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FACTFILE
Adopted Responsible Care in 1993
RC = Mandatory
MEMBERSHIP: RESPONSIBLE CARE COMPANIES: 79
Norsk Industri has developed a Responsible Care RC14001 management system enabling companies to monitor and achieve their sustainable development objectives.
The RC14001 management system is based on internationally-recognised principles and practice and is designed to provide a common framework for industry to achieve sustainable development. The system comprises five parts:
Part 1: A set of principles for companies to adopt.
Part 2: A detailed set of requirements.
Part 3: General guidelines for implementation.
Part 4: A set of performance indicators to measure progress.
Part 5: A set of standards for the verification of implementation.

PAKISTAN

PCMA
Pakistan Chemical Manufacturers Association
407 Eden Heights, Jail Rd,
Main Gulberg, Lahore, Punjab 54000
Fahim Jamal Gadir
fahim@pcma.org.pk
www.pcma.org.pk

FACTFILE
Adopted Responsible Care in 2017
MEMBERSHIP: 73
RESPONSIBLE CARE COMPANIES: 12 accounting for ~75% total sales.
PCMA is the newest RC14001 member and is making fast progress with support, including capacity building events (photos, below), from ICCA and other RCLG members particularly ACC, GPCA and Cefic. Currently RC is not a condition of membership but will become mandatory within the next few years.
PCMA is in the process of drafting a set of principles aligned with UN SDGs and is working with Pakistan Green Building Council.
PCMA signed an MOU on RC14001 with ACC in April 2018. Self-assessment and independent verification are the main forms of RC verification.
RCs being launched covering full range of topics to strengthen RC implementation through the value chain including a specific discipline for Port Operations. PCMA uses the RC14001 management system, self-assessment checklist and the CoPs to close identified gaps.
A set of 26 EHS&S performance metrics will be issued early 2019 for reporting year 2018 including security-related incidents covering both on site and value chain activities to help PCMA address chemical security concerns.
PCMA is communicating with major stakeholders including regulatory bodies and government on various EHS&S issues including adoption of GHS.
Association is spreading awareness of RC utilizing a range of options; in time, it will seek to develop more established forums such as Community Advisory Panels.
PCMA has voluntary agreements/RKUs with the emergency response system/Rescue 1122, National University Science and Technology (NUST), University of Engineering and Technology (UET). PCMA is training/Rescue 1122 on chemical-related ER and developing a guide book for responding to chemical emergencies. With academic PCMA gives lectures on RC and proposes chemical related projects.
**PERU**

**CITO-SNI**
Comité de la Industria Química - Sociedad Nacional de Industrias
Los Laureles 365, San Isidro, Lima

**FACTFILE**
Adopted Responsible Care in 1996

**SPÍK**
Samilhan sa Milipasa ng mga Industriyang Kimika (Chemical Industries Association of the Philippines)
Unit 2003, Cityland 10 Tower
168 Ayala Avenue North 1226
Makati City, Philippines 1226

**FACTFILE**
Adopted Responsible Care in 1995

**POLAND**

**PIPC**
Polish Izba Przemysłu Chemicznego (Polish Chamber of Chemical Industry)
u. Śniadeckich 17, 00-654 Warsaw

**FACTFILE**
Adopted Responsible Care in 1992

**RESPONSIBLE CARE COMPANIES:** 22
- PCP: companies commit to implementing the RC Management Framework aligned with the Global Charter; to continuous improvement in all aspects of activity particularly health and environment protection and process safety. Audit conducted during the first two years of joining RC.
- PIPC: working groups includes SD Commission for the implementation of CSR and communication on SD activities and sharing good practices.
- Sustainability program as such has not been developed but within RC there is a number of voluntary actions and activities directly related to the principles and goals of SD. Initiatives include “Tree for a bottle” campaign directed at children for collection of PET bottles and other waste with more than 29 million bottles and 15 tonnes of other waste collected and ~30,000 trees planted.
- KPIs cover environment, health, process safety and waste safety and are presented in annual RC report which is distributed to the authorities, institutions and other organizations.
- Audit verification and certification of RC activity implementation carried out by RC Secretariat. Self-assessment carried out every two years. Every three years RC members are required to set goals and tasks to achieve improvements in risk management and control in fundamental areas such as EH&S.
- CCA and CPC have provided capacity building funding and other request verification of their management system based on the adopted ISO. Use of the RC logo according to members that pass the verification process. A SPIK Verification Center is available to companies for verification and/or assistance from RC Verifiers. RC is being promoted to regulators as an alternative to ISD.
- Quarterly general meetings inform members on current issues and concerns affecting the CP, and the chemical sector. Officers and Board of Directors meet monthly. The RC Council meets monthly and leads implementation of programs and activities.
- Under project and other efforts, SPIK runs workshops and seminars to enable cooperation with supply chain partners and other industry associations. Some members offer free seminars and training to customers and assist them with risk assessment prior to entering into contracts.
- SPIK has a partnership with regulators for promotion of GHS.
- CPs shared with the Paint Manufacturers association (PAQ) and regulators under RC Awareness program.

**PORTUGAL**

**APQQuímica (formerly APEQ)**
Associação Portuguesa das Empresas Químicas
Av. D. Carlos I, 45 – 3º, 1200-646 Lisboa
José Barbedo Ribeiro
jose.ribeiro@apquimica.pt
www.apquimica.pt

**FACTFILE**
Adopted Responsible Care in 1993

**MEMBERSHIP:** 63
- APQuímica has adopted the Code of Conduct of the Responsible Care Program and is a founding member of PACOPAR, the Community Advisory Panel of the Responsible Care Program of Estarreja set up in 2001. The area’s chemical companies work with APEQ, municipal services and several local community groups to improve quality of life of Estarreja, applying RC commitments – see www.pacopar.org. Pacopar won the European RC Award in 2005.
- Companies verify RC program through self-assessment.
- APQuímica collaborates with other associations on issues of common interest such as legislation, waste, EH&S, and transport of dangerous goods by road and rail.

**SCIC**
Singapore Chemical Industry Council Limited
8 Jurong Town Hall Road
#25-04 The JTC Summit
Singapore 608454
Agmer Lee
agmer@scic.sg
www.scic.sg

**FACTFILE**
Adopted Responsible Care in 1990

**MEMBERSHIP:** 79
- SCIC membership covers the entire value chain from manufacturers to LSPs, traders and consultancy firm. RC is relevant to 127 members. The head of new RC, Rijal Chemicals company attends face-to-face meeting with SCIC for briefing on commitments, alignment of RC codes to business operations and tentative indication of implementation timeframe and plans. RC membership is open to SCIC members only.
- Mandatory annual self-evaluation against 7 CoPs and KPIs. SCIC tracks submissions and member companies failing to submit after 3 reminders are delisted as RC members. Verification of self-evaluations is part of Awards scheme and/ or undertaken by a panel comprising industry and government officials, also inviting companies publicized.
- Detailed guidelines are incorporated in the self-evaluation forms for CoP implementation. SCIC adopted its 7th code on Security in 2017. SCIC is promoting process safety event rate reporting during 2018 for all RC signatories following earlier awareness campaign.
- SCIC PC members cover LSPs including waste management companies. Using the Distribution and Product Stewardship Codes as management guidance for the supply chain.
- RC Awards recognize high performers at an annual presentation event attended by Minister of State, industry leaders and government officials.
- SCIC has adopted the GPS and is actively driving awareness and understanding not only in the chemical industry but also in government agencies, including several workshops, working closely with JICA, GPS implementation plan being endorsed by SCIC Board. Also driving implementation of GHS in Singapore. SCIC co-chairs the National Chemical Management & GHS Task Force.
- SCIC meets with new signatories and offers input for assistance to improve RC implementation. RC Clinics sessions (photoball)
introduced in 2017 to provide company coordinators with opportunity related to sustainable development. The WG is focused on promoting and providing support to companies on closing the materials loop.

RC implementation based on CPMs and self-assessment. Association seeks to benefits from assistance and support from other chemical association. RC meetings include peer assistance by high performers for less advanced companies.

**ACS** had CEPs support for a seminar in April 2016 focused on H&S, it mapped industrial accidents in the country, and introduced important GHS labeling changes for first responders.

**SOUTH AFRICA**

**CAIA** Chemical and Allied Industries’ Association PO Box 9415, Auckland Park 2006, Johannesburg
deselo.ponts@co.za
www.caia.co.za

FACTFILE
Adopted Responsible Care in 1994
MEMBERSHIP: 140
RESPONSIBLE CARE COMPANIES: 112 RC signatures + 7 due to sign + 18 consultants

- Membership open to chemical manufacturers, distributors, traders, spill responders, drum reconditioners, service providers, waste managers, testing laboratories and consultants. Companies must be members of CAIA in order to become RC signatories. Implementation begins with a public signing commitment to the guiding principles by the CEO and renewed every 3 years.
- Hauliers already accredited by SQIS-Southern Africa can also join.
- CAIA has aligned RC to the 17 Sustainable Development Goals (SDGs) as well as being positioned as the overarching voluntary sustainability program for the chemical and allied industries in South Africa, providing signatures and stakeholders with value and metrics.
- Independent verification undertaken by approved auditors every 2 years for hauliers or every 3 years for most other member company categories; verification entities member companies to access the RC brand.
- Implementation achieved through a plan-do-check-act management system supported by a comprehensive program of guidance documents, advisory forums and reporting requirements.
- Annual provision of RC data - Quantitative Indicators of Performance (QIPs) to CAIA is a requirement; associated monitoring takes place and aggregation of performance results published in annual RC report. Non-compliance can result in suspension or expulsion from the association. Data covers EHSIG metrics, information on traded products, independent verification, chemicals management, product stewardship, complaints, community engagement, emergency response, certification, annual reporting, investment and engagement.

SLOVAK REPUBLIC

**ZCHFP SR** Association of Chemical and Pharmaceutical Industry Haltalova 12, 81300 Bratislava 3
Silvia Surova
surovacs@zchfp.sk
www.zchfp.sk / www.zck.sk

FACTFILE
Adopted Responsible Care in 1996
MEMBERSHIP SI
RESPONSIBLE CARE COMPANIES: 11 accounting for ~49% total sales
- Association membership includes LSFs and pharmaceutical companies.
- Management systems (IS0) and RC verification questionnaire supports companies with implementation.
- Self-assessment and peer review via completed questionnaire monitored by the RC Committee.
- Association members report onset of KPIs with results presented and discussed as part of dedicated RC program at conference such as Chemica held for the past 13 years, and annual assembly.
- Voluntary agreement on control of dangerous substances with Ministry of Interior.
- ZCHFP SR supports companies, particularly SMEs, with understanding and implementation of REACH and CLP regulations. GHS is a regular agenda topic at the annual Chemica – Responsible Care conference. EHS Management System, DIN9, is headquarted at member company, achieved strong performance in tests as part of European ECE scheme.

SLOVENIA

**ACS** Association of Chemical Industries Chamber of Commerce and Industry, Dimitevca 13, 51-1504 Ljubljana
Daria Notarciuc / Romana Božičnik
daria.notarciuc@ogps.si / romana.bozicnik@ogps.si
www.ogps.si

FACTFILE
Adopted Responsible Care in 1998
MEMBERSHIP BE
RESPONSIBLE CARE COMPANIES: 18 - 77% of total sales
- ACS is an active Working Group for Circular Economy since 2017

related to sustainable development. The WG is focused on promoting and providing support to companies on closing the materials loop.

RC implementation based on CPMs and self-assessment. Association seeks to benefits from assistance and support from other chemical association. RC meetings include peer assistance by high performers for less advanced companies.

**ACS** had CEPs support for a seminar in April 2016 focused on H&S, it mapped industrial accidents in the country, and introduced important GHS labeling changes for first responders.

**SOUTH AFRICA**

**CAIA** Chemical and Allied Industries’ Association PO Box 9415, Auckland Park 2006, Johannesburg
deselo.ponts@co.za
www.caia.co.za

FACTFILE
Adopted Responsible Care in 1994
MEMBERSHIP: 140
RESPONSIBLE CARE COMPANIES: 112 RC signatures + 7 due to sign + 18 consultants

- Membership open to chemical manufacturers, distributors, traders, spill responders, drum reconditioners, service providers, waste managers, testing laboratories and consultants. Companies must be members of CAIA in order to become RC signatories. Implementation begins with a public signing commitment to the guiding principles by the CEO and renewed every 3 years.
- Hauliers already accredited by SQIS-Southern Africa can also join.
- CAIA has aligned RC to the 17 Sustainable Development Goals (SDGs) as well as being positioned as the overarching voluntary sustainability program for the chemical and allied industries in South Africa, providing signatures and stakeholders with value and metrics.
- Independent verification undertaken by approved auditors every 2 years for hauliers or every 3 years for most other member company categories; verification entities member companies to access the RC brand.
- Implementation achieved through a plan-do-check-act management system supported by a comprehensive program of guidance documents, advisory forums and reporting requirements.
- Annual provision of RC data - Quantitative Indicators of Performance (QIPs) to CAIA is a requirement; associated monitoring takes place and aggregation of performance results published in annual RC report. Non-compliance can result in suspension or expulsion from the association. Data covers EHSIG metrics, information on traded products, independent verification, chemicals management, product stewardship, complaints, community engagement, emergency response, certification, annual reporting, investment and engagement.
**THAILAND**

**RCMCT**
Responsible Care Management Committee of Thailand (RCMCT) Chemical Industry Club.
The Federation of Thai Industries, Queen Sirikit National Convention Center, Zone C, 4th Floor, 60 No Rachadapisek Rd., Bangkok 10100
Nithada Aungmassarik
nitsa@responsiblecare.or.th
www.responsiblecare.or.th/home.asp

**FACTFILE**
Adopted Responsible Care in 1995
MEMBERSHIP: 14
RESPONSIBLE CARE COMPANIES: 9
RCMCT aims to manage and develop RC in Thailand by providing support to member companies implementing the initiative as a management system for EH&S issues for business and their communities, and to be continuously effective and sustainable. RCMCT activities also seek to communicate the principles and activities of RC to be generally recognized by the general public.

**TURKEY**

**TCMA / TKSD**
Turkish Chemical Manufacturers Association, Türkiye Kimya Sanayicileri Derneği, Ibrahim Ağa Sok., No: 13, 12M Plaza, Kat: 7, Kozyatağı Mahallesi, Bostancı, Kadıköy 34421 İstanbul
Caner Zanbak
caner.zanbak@tksd.org.tr
www.tkis.org.tr

**FACTFILE**
Adopted Responsible Care in 1993
MEMBERSHIP: 101
RESPONSIBLE CARE COMPANIES: 7
TKSD’s RC program is currently not very active in contrast with previous years. While all member companies are RC signatories, relations interacted with TKSD are at a low level, accentuated by significant changes in the Turkish chemical industry during the 2017-2018 period due to the geopolitical unrest in the Middle East region, together with energy costs and currency fluctuations.

The association nevertheless continues within RC Technical Working Group meetings with a core group of companies and forms all TKSD member companies. It has signed addendum RC Guidance to incorporate the Security Code and continues facility RC visits albeit less frequently.

In addition, TKSD continues to cooperate with relevant government entities on emerging regulatory matters, emphasizing importance of RC, and maintains contacts with TCMA.

The effect of the EU-Acquis Harmonization and increased regulatory reporting of the companies under current EH&S and other areas has resulted in companies favoring audited ISO Standards (9000, 14000, 18000 etc) against reporting on RC. Collection by TKSD of meaningful metrics data from member companies has been increasingly challenging.

**UNITED KINGDOM**

**CIA**
Chemical Industries Association, Kings Buildings, Smith Square, London, SW1P 3JL
Phil Scott
phil.scott@cia.org.uk
www.cia.org.uk

**FACTFILE**
Adopted Responsible Care in 1989
RC = Mandatory
MEMBERSHIP / RESPONSIBLE CARE COMPANIES: 96
CMs work on sustainability is developing and includes a Steering Group of member companies led by a CIA manager. Sustainability principles are in draft.

CIA does not represent all companies in the UK that practice Responsible Care transport, logistics and warehousing mainly participate through CIA’s RC Partner with the Chemical Business Association.

CIA’s RC Guiding Principles were revised and re-launched in 2017. Revision was endorsed by CIA Council and included an exercise to ensure Global Charter elements are included. It is a condition of CIA membership that sites commit to the RC Guiding Principles.

CIA’s implementation is mainly through company management systems, CoPs, association guidance, regulatory requirements eg. safety and environment aspects align with RC, and best practice sharing which CIA facilitates.

CIA has operated a RC verification programme for several years. It is CIA-led with independent peers from other companies joining site visits; results generate improvement opportunity recommendations to businesses and are shared with industry.

Mutual assistance and capacity building meetings and publications member RC progress issues and updates periodically reported to CIA Council comprising senior leaders. CIA RC Strategy Group for member companies and 11 Regional RC Cells support issues and updates periodically reported to CIA Council comprising senior leaders. CIA RC Strategy Group for member companies.

Companies report annually against full set of KPIs and information can be accessed by the public via the dedicated website responsiblecare.americanchemistry.com/Perforance Results.

CIA members and Partners are required to endorse mandatory.

**UNited States of America**

**ACC**
American Chemistry Council, 700 2nd Street NE, Washington, DC 20002
Bradford Johnson
bradford_johnson@americanchemistry.com / Alexa Bux buxa_bump@americanchemistry.com / www.americanchemistry.com/rc

**FACTFILE**
Adopted Responsible Care in 1996
RC = Mandatory
MEMBERSHIP / RESPONSIBLE CARE COMPANIES: 132
CMs + 135 supply chain partners
RC provides the implementation mechanism for development of ACC’s Sustainability program (see page 12)

At an international level, ACC has acted as the RCI’s secretariat, sharing responsibility with the European Chemical Industry Council (CEC), for around 3 decades. It provides extensive RC mentoring support for other national associations and candidate associations, and shares various materials and tools through capacity building, participation in events etc.

ACC pursues global opportunities to strengthen regulatory cooperation and coherence that both facilitate trade and reduce compliance costs for member companies, with a focus on opportunities in South Asia, the Americas, and the Gulf Region. ACC works through the ICA Global Regulatory Cooperation Task Force to help continue this progress.

ACC members drive systems management processes based on established goals and adherence to policies, procedures and practices developed to improve performance over time.

The Responsible Care Management System (RCMS) is based on effective, proven practices used by ISO and provides a set of required elements to help companies assess impacts, set performance goals, develop internal goals and processes to drive the performance and share progress with the public. RCMS follows a Policy Plan-Do-Check-Act model.

Companies report annually against full set of KPIs and information can be accessed via the public dedicated website responsiblecare.americanchemistry.com/Performance Results.

ACC members and Partners are required to endorse mandatory.

**J**

**UKRAINE**

**UCU**
Ukrainian Chemical Union
15 M. Rashkovsky St. Kyiv 02660
Oleksiy Sadowsky
ecoffice@chemunion.org.ua
www.chemunion.org.ua

**FACTFILE**
Adopted Responsible Care in 2011
MEMBERSHIP: 42
RESPONSIBLE CARE COMPANIES: 6

**SWITZERLAND**

**scienceindustries**
Business Association Chemistry Pharma Biotech Nordstrasse 15, Postfach, 8021 Zürich
Linda Kren
linda.kren@scienceindustries.ch
www.scienceindustries.ch

**FACTFILE**
Adopted Responsible Care in 1992
RC = Mandatory
MEMBERSHIP / RESPONSIBLE CARE COMPANIES: 250

Member ship heavily weighted towards pharmaceutical sector (accounts for 63% of worldwide sales) and includes chemical distributors who are also part of the RC program.

Signing of the RC Principles is compulsory when joining the association. The Swiss RC program was revised in 2016 to align with the updated Global Charter and members were asked to sign the revised principles as a renewal of their commitment. This took place with the publication of the “We Care” brochure which includes practical case studies from various member companies and sets out the view taken by the authorities regarding implementation of RC in Switzerland. The equivalent website http://www.responsiblecare.ch is updated with further illustrative case studies.

Annual capacity building events are held with external partners and companies to share best practices. Events are currently focused on supporting companies to report against the new ICA KPI process safety metric.

In 2018 scienceindustries became one of the founders of Go For Impact (https://go-for-impact.ch), a platform for the discussion of topics and the implementation of projects related to sustainability in the private sector.

The association’s stakeholders are also joint founders of the platform Scienceindustries who are also part of the RC program.

**FACTFILE**
Adopted Responsible Care in 1995
MEMBERSHIP: 14
RESPONSIBLE CARE COMPANIES: 4
RCMCT aims to manage and develop RC in Thailand by providing support to member companies implementing the initiative as a management system for EH&S issues for business and their communities, and to be continuously effective and sustainable. RCMCT activities also seek to communicate the principles and activities of RC to be generally recognized by the general public.

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The association’s stakeholders are also joint founders of the platform Scienceindustries who are also part of the RC program.

**FACTFILE**
Adopted Responsible Care in 1995
MEMBERSHIP: 14
RESPONSIBLE CARE COMPANIES: 4
RCMCT aims to manage and develop RC in Thailand by providing support to member companies implementing the initiative as a management system for EH&S issues for business and their communities, and to be continuously effective and sustainable. RCMCT activities also seek to communicate the principles and activities of RC to be generally recognized by the general public.

**FACTFILE**
Adopted Responsible Care in 1993
MEMBERSHIP: 101
RESPONSIBLE CARE COMPANIES: 7
TKSD’s RC program is currently not very active in contrast with previous years. While all member companies are RC signatories, relations interacted with TKSD are at a low level, accentuated by significant changes in the Turkish chemical industry during the 2017-2018 period due to the geopolitical unrest in the Middle East region, together with energy costs and currency fluctuations.

The association nevertheless continues within RC Technical Working Group meetings with a core group of companies and forms all TKSD member companies. It has signed addendum RC Guidance to incorporate the Security Code and continues facility RC visits albeit less frequently.

In addition, TKSD continues to cooperate with relevant government entities on emerging regulatory matters, emphasizing importance of RC, and maintains contacts with TCMA.

The effect of the EU-Acquis Harmonization and increased regulatory reporting of the companies under current EH&S and other areas has resulted in companies favoring audited ISO Standards (9000, 14000, 18000 etc) against reporting on RC. Collection by TKSD of meaningful metrics data from member companies has been increasingly challenging.
third-party RCMS audits conducted by independent, accredited auditing firms on regular basis. Similar to ISO audits, the company is required to demonstrate conformance to the management systems requirements at headquarters and a sample of its facilities. Companies report their status to ACC and are encouraged to share audit results with relevant stakeholders. Companies failing to obtain their required certifications are subject to ACC’s governance process.

- ACC extends the RC ethic and management practices throughout the entire chemical supply chain through its Partnership Program.
- Partners adhere to the same RC requirements as ACC members; their CEOs make a commitment to uphold the following RC program elements: Endorsing the Responsible Care Guiding Principles; Measuring and publicly reporting performance on an annual basis; Implementing the RC Product Safety Code, Process Safety Code and Security Code within a time frame; Implementing the RCMS to achieve and verify results; Obtaining independent verification that a management system is in place and functions according to professional specifications.
- RC is industry’s commitment to using and managing those materials with an essential role in thousands of products and technologies in everyday life both safely and responsibly. While more than a dozen federal laws regulate the safe use of chemicals, RC means that ACC members go above and beyond these requirements. Under the Product Safety Code, ACC member companies must adhere to a comprehensive set of practices and procedures to safely manage the products they manufacture.
- As well as the website listed above, the following sites offer further detailed information about ACC’s sustainability efforts and other RC-related initiatives reflecting the commitment to communicate openly with stakeholders:
  - www.americanchemistry.com/Sustainability/Principles.html
  - www.chemicalsafetyfacts.org/
  - www.sciencebehindsustainability.org/
  - www.sciencebehindsustainability.org/