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IOMC WEBINAR

Leveraging Green and Sustainable Chemistry for sound management of Chemicals and waste beyond 2020

Gabriela Eigenmann

Materials and Chemicals Management Division, UNIDO

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IOMC toolkits to promote sound management of chemicals

Toolkits



FAO Pesticide Registration Toolkit



OECD Environmental Risk Assessment Toolkit - Cloned



UNIDO Chemical Leasing Toolkit



UNIDO Innovative Approaches for the Sound Management of Chemicals and Chemical Waste Toolkit



[UNIDO Green Chemistry Toolkit](#) →



WHO Human Health Risk Assessment Toolkit: Chemical Hazards

Innovative Approaches to Sound Chemicals Management and Chemical Wastes (IAMC) Toolkit

Objective:

To facilitate the **implementation of innovations in the production and application of chemicals** in order to reduce the consumption of chemicals, energy and water.

Content:

A company guide that provides a methodological approach in the form of six phases, supplemented by technical resources, sector guidelines and case studies.

Target Audience:

Technical and business experts to support manufacturers and industrial users of chemicals.



Chemical Leasing Toolkit

Objective:

The aims to help industry and policy professionals to become more knowledgeable about the Chemical Leasing Business Model and its effective and efficient use in practice.

Content:

Guidelines, materials, best practice case studies and lessons learnt from the international activities of UNIDO and its partners, based on 10 years' experience and on know-how acquired within the Global Chemical Leasing Programme.

Target Audience:

Companies (chemicals suppliers, users), consultants and policymakers.



Green Chemistry toolkit

- Green Chemistry is the **design of chemical products and processes** that reduce or eliminate the use and generation of hazardous substances.
 - **Keeps hazardous substances out** of the environment in the first place.
 - Green Chemistry **focuses on the inherent nature/properties of chemicals**, materials, products, processes, or systems.
 - As such Green Chemistry is **transdisciplinary in nature**, encompassing elements of chemistry, engineering, biology, toxicology and environmental science.
 - Green Chemistry is translated from idea into practice through the **12 Principles of Green Chemistry**.
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Green Chemistry Toolkit

Objective:

To increase the general **global awareness and capacities on deployable Green Chemistry approaches** for the design of products and processes that advance global environmental benefits throughout their life cycles.

Content:

Materials to deepen the understanding of Green Chemistry, including origins, technologies and how it drives environmental and economic goals for societal benefits. Training modules with presentations, exercises and additional readings.

Target Audience:

Companies, academia and policymakers, as well as experts, engineers, consultants or researchers.

Links

Green Chemistry Toolkit

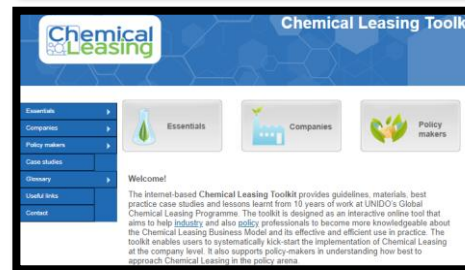
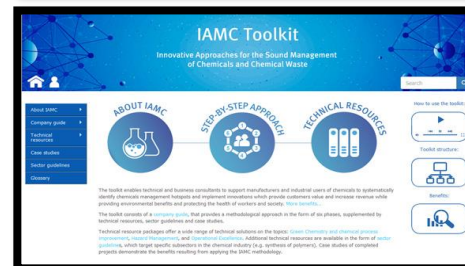
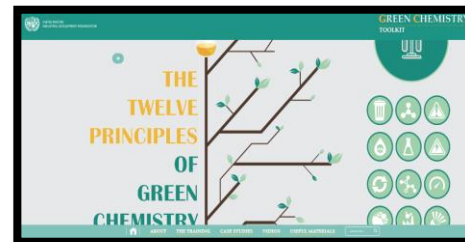
<https://greenchemistry-toolkit.org/>

IAMC Toolkit

<https://iamc-toolkit.org/>

Chemical Leasing Toolkit

<https://chemicalleasing-toolkit.org/>





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GLOBAL ENVIRONMENT FACILITY
INVESTING IN OUR PLANET



Green Chemistry GEF-projects

The Global Green Chemistry Initiative - concluded project

Objective: To increase the general global awareness and capacities on deployable Green Chemistry approaches, for the design of products and processes that advance global environmental benefits throughout their life cycles.

Executing Partners: The Green Chemistry Center at Yale University, National Cleaner Production Centres (NCPCs), and Braskem (private sector).

Results achieved:

- Promotion activities took place in 6 countries: **Brazil, Colombia, Egypt, South Africa, Serbia and Sri Lanka**; 600+ people trained; Awareness raising, workshops, Train the Facilitator Materials, Technology Compendium developed etc.

The Global Greenchem Innovation and Network Programme - new project in preparation

Objective: Scaling up green chemistry for POPs, mercury and microplastics replacement through capacity building and innovation, and creation of a global unifying green chemistry network for implementation and uptake.

Preparatory phase - ongoing



Component 1

Green Chemistry Inclusion **Network** for Capacity Building

✓ *Green Chemistry toolkit*



Component 2

Green Chemistry **Accelerator** Programme

✓ *Green Chemistry across industrial sectors*



Component 3

Green Chemistry alternatives for **POPs, mercury and micro-plastics** for replication and up-scale

✓ *Sound management of chemicals throughout their life cycle and of hazardous waste*



Component 4

Monitoring and evaluation



CENTER for GREEN CHEMISTRY
and GREEN ENGINEERING at YALE

Peru

Serbia

Ukraine

Jordan

Uganda

Indonesia



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Thank you

Ms. Gabriela Eigenmann

**Senior Project Manager,
Materials and Chemicals Management division
Environment Department at UNIDO**

G.EIGENMANN@unido.org
