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FINAL WORKSHOP

Topical Session

*Sustainability and Circular
Economy Principles in Nuclear
Decommissioning*

**A DEM 2021
SIDE-EVENT**

PALAIS DES PAPES
AVIGNON, FRANCE



Why?

EU's Taxonomy Regulation 2020/852

Sustainable Economic Activity

- ✓ Contribute to at least one of **six environmental** objectives
- ✓ **Do no significant harm** to any of the other objectives, while respecting basic human rights and labour standards

Climate change mitigation



Climate change adaptation



Sustainable use of water and marine sources



Circular economy



Pollution prevention



Healthy ecosystem



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https://ec.europa.eu/info/business-economy-euro/banking-and-finance/sustainable-finance/eu-taxonomy-sustainable-activities_en

A cleaner and more competitive Europe



EU's transition to a Circular Economy

- ✓ Reduce pressure on **natural resources**
- ✓ Create **sustainable growth** and **jobs**
- ✓ Prerequisite to achieve the EU's 2050 **climate neutrality** target and to **halt biodiversity loss**

https://ec.europa.eu/environment/strategy/circular-economy-action-plan_en#ecl-inpage-875

Why?

Waste Hierarchy: A long and strong use in nuclear industry



Important step but insufficient to reach circularity

Some Initiatives



First international discussion on circular economy in nuclear decommissioning, IAEA, SOGIN, June 2019

[News Sogin and IAEA. First international discussion on circular economy in decommissioning](#)



IAEA Webinar: Nuclear Decommissioning in the Context of Sustainability and Circular Economy, July 2021

[Nuclear Back End Webinar Series | IAEA](#)

Invited Speakers



**Christophe
Xerri**

Director of Nuclear
Fuel Cycle and Waste
Technology



**Gianfranco
Brunetti**

DHoU – ENER. D.2
Nuclear Energy,
nuclear waste and
decommissioning



**Enrico
Bastianini**

Sogin – Security
Manager



**Stéphane
Bourg**

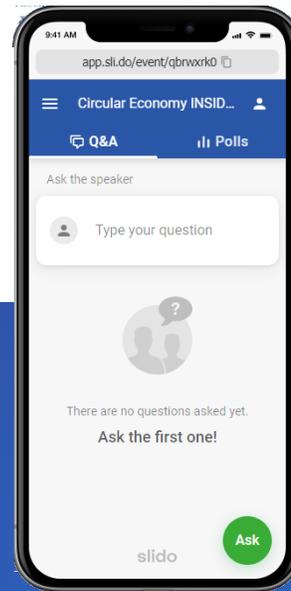
ISEC- Institut des
Sciences et
Techniques pour une
économie circulaire
des énergies bas
carbone



**Virginie
Wasselin**

Cheffe du service
stratégie filières et
FAVL,
Direction sûreté,
environnement et
stratégie filières

Q&A Session



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Christophe Xerri
Director of Nuclear
Fuel Cycle and Waste
Technology, IAEA



ABOUT ME

Mr Christophe Xerri has 30 years of experience in the nuclear field, with a focus on nuclear fuel cycle and waste management. Before his appointment to the IAEA, he served from 2011 to 2015 as Counsellor for Nuclear Affairs to the French Embassy in Japan and in Mongolia.

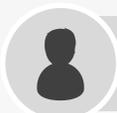
He joined COGEMA (now ORANO) in 1991, in the field of spent fuel and waste management. He then moved to uranium mining and enrichment technology. Later, he worked in non-proliferation and then was assigned to the office of the President of AREVA (nuclear reactors, fuel cycle, electricity transmission equipment).

He moved to Japan in 2007 and became Vice President of Mitsubishi Nuclear Fuel in 2009, where he was also involved in handling the consequences of the earthquake and tsunami of March 2011.

Mr Xerri holds an Engineer's degree from Ecole Centrale de Lyon, France, a Master of Science from Salford University, UK; and an MBA from Institut Supérieur des Affaires in France.



Enrico Bastianini
Security Manager,
Sogin, Italy



ABOUT ME

Mr. Enrico Bastianini is an electric engineer.

After the university he has been an officer in the Italian Navy.

Later, he worked in ENEL in the design of conventional (coal, oil and natural gas fired) power plant and renewables

Since 1999 he worked in Sogin. He worked in the engineering department of the GCR in Latina.

After, he was the responsible of the maintenance department and the operation department, then the plant manager and, then, the project manager of Latina GCR decommissioning project.

After that, in Sogin Headquarter, he has been the responsible of the integrated management system and the responsible for the Quality, Safety, Radioprotection and Environment management system.

After, he has been the director of the Security Safety and Facility Management.

He is, now the Security Manager.

Microsoft Teams

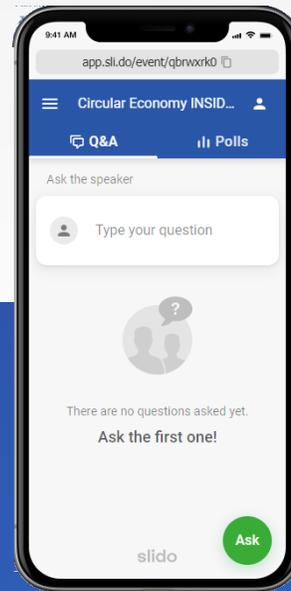
Presentation

2021-09-15 06:55 UTC

Hosted by:
Bastianini Enrico

Organized by:
Bastianini Enrico

Q&A Session



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How far would you say you are aware about circular economy principles in decommissioning?

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To which extend are you applying the 3R principles in your activities?

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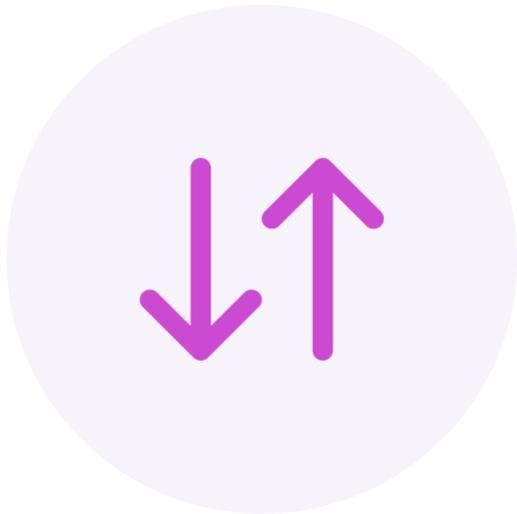
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Can you give some examples of well established practices of circular nuclear decommissioning?

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Degree of implementation of circular economy principles to nuclear decommissioning varies between countries and over time due to differences in:

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What good practices should we advocate to promote sustainable decommissioning?

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THANK YOU



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