

**International Conference on Occupational Radiation Protection:
Strengthening Radiation Protection of Workers –Twenty Years of Progress
and the Way Forward**

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Radon in Brazil: overview according to UNSCEAR metrics based on nationally produced data between 2007-2020

Among the general public's sense any activity involving radioactive materials is suspiciously foreseen for the potential danger it represents in their imagination. However, to seriously evaluate its requisites and feasibility is needed to measure the impacts and effects the radioactive material handling would generate either for the environment, public and Occupationally Exposed Persons.

Formerly pushed forward by the necessity of gathering data intending to formalize reasoned measures regarding the worldwide proliferation of nuclear experiments, the United Nations General Assembly approved in 1955 the establishment of its Scientific Committee on Effects of Atomic Radiation (UNSCEAR), from which Brazil is a founding member.

Aiming on collecting and producing data about the levels and effects of ionizing radiation, UNSCEAR holds annual meetings where a diverse set of topics on the ionizing radiation usage and Global Surveys' results are presented and discussed.

For achieving its goals, it relies on a distributed network of more than 50 institutions contributing from all around the globe. Brazil is represented by the Brazilian Nuclear Energy Commission (CNEN), and in charge of the Occupational, Medical, Public and Environmental topics stands the Institute of Radiation Protection and Dosimetry (IRD).

The asked data is collected by UNSCEAR once the contributors make the submissions, and after being cataloged and processed are compiled in a publications where it's also possible to find a brief context explaining the development and learned lessons that happened in a certain period of time. The data submissions are accomplished via the upload of fulfilled spreadsheet forms by the National Contact Persons (NCPs) at UNSCEAR's online platform.

The UNSCEAR frequently updates its documentations, and in 2021 it started a new workforce to release a contemporary version of the 2008 Report on the Sources and Effects of Ionizing Radiation.

The survey also has the International Labor Organization's and International Atomic Energy Agency's support and its final release is scheduled for 2024, by the end of the current strategic cycle.

This work aims to anticipate the analysis of the Radon's data shared by the Brazilian venture with the UNSCEAR, describing the timespan ranging from 2007-2020.

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