



## 2025 International Advisory Committee (IAC) Meeting on Non-Ionizing Radiation

### EMF – Report on activities in Sweden

- Research activities related to EMF and health

Currently, the Swedish radiation safety authority's (SSM) Scientific Council for Electromagnetic Fields are working on their twentieth report. Every year, the council, made up of experts in epidemiology, biology, and engineering, systematically reviews all relevant studies on EMF and health. The result is a report containing summaries of studies concerning Static, ELF-MF/EF, INT-EMF and RF-EMF in the fields of epidemiology, human studies, and animal and cell studies. It is used by SSM as a way to continuously monitor EMF research and evaluate current health risk evaluations of EMF.

SSM currently awaits a brain tumour incidence trend study from Maria Feychtings team at the institute for environmental medicine at the Karolinska institute. The project aims to find incidence trends for glioma and meningioma in adults (20 years and above), as well as brain tumour incidence among children and adolescents (0-19 years) between the years 1985-2023.

- New relevant policies and legislations

The SSM commented on a new method for calculating magnetic field distributions which Svenska kraftnät, the electricity transmission system operator in Sweden, intends to use in the future. While not as precise as the previous model, it conservatively estimates magnetic field strength in order to ease build planning processes. The SSM commented that we find it important to continuously compare such a model with more precise measurements in order to secure its continued accuracy.

- New communication activities

This year, The SSM published a second podcast concerning health risk evaluation of EMF. As an information initiative for the public, we discussed radiation, non-ionizing radiation and scientific methodology in general, as well as the current scientific trends concerning childhood leukaemia and ELF as well as reported effects in animal studies.

In May, SSM held a presentation toward municipalities concerning EMF and health. SSM explained what radiation is in general and what non-ionizing radiation is in particular, as well as the different sources for them. A shorter presentation concerning measurements for environmental monitoring was given. SSM discussed current scientific evaluations and results, and gave tips on how to handle different questions from the public. The presentation is now available online (in Swedish) for everyone to see.