

## **The International EMF Project**

### **24<sup>th</sup> International Advisory Committee Meeting**

**27-29 May 2019, Geneva, Switzerland**

### **Report on National Activities**

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## **CANADA**

### **1. Policies, Guidelines and Regulations**

#### **Health Canada**

Health Canada has developed and maintains human exposure guidelines to radiofrequency electromagnetic energy, entitled “Limits of Human Exposure to Radiofrequency Electromagnetic Energy in the Frequency Range from 3kHz to 300GHz – Safety Code 6” (2015). This document can be accessed at: [https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt\\_formats/pdf/consult/\\_2014/safety\\_code\\_6-code\\_securite\\_6/final-finale-eng.pdf](https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/consult/_2014/safety_code_6-code_securite_6/final-finale-eng.pdf)

Safety Code 6 is accompanied by a “Technical Guide for Interpretation and Compliance Assessment of Health Canada's Radiofrequency Exposure Guidelines”, to assist users in understanding and assessing the safety of electromagnetic exposures in working and living environments. A ‘Rationale’ document describing the derivation of the exposure limits in Safety Code 6 is also available upon request. To obtain electronic copies of these documents, please contact:

[HC.ccrpb-pcrpcc.SC@canada.ca](mailto:HC.ccrpb-pcrpcc.SC@canada.ca)

Health Canada is currently developing numerical models to estimate temperature in human tissue from localised exposures to millimetre wave radiation<sup>1</sup>. Health Canada staff continue to actively monitor scientific research on EMF and human health.

### **2. Public Information Activities**

#### **Innovation, Science and Economic Development Canada (ISED)**

Innovation, Science and Economic Development Canada (ISED) is the Canadian regulator for radiocommunication and broadcasting installations as well as radiocommunication apparatus. ISED has recently published a new website on ‘Radiofrequency Energy and Safety’ that can be found at the following link: <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf11467.html>

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<sup>1</sup> Gajda GB, Lemay E, Paradis J. Model of steady-state temperature rise in multilayer tissues due to narrow-beam millimeter-wave radiofrequency field exposure. Health Physics. 2019. DOI: 10.1097/HP.0000000000001036

This website provides general information on radiofrequency energy, the role of the government of Canada, compliance of wireless devices and antenna systems, including small cells and 5G technology, with Canadian limits.

### **3. Areas of Public Concern**

#### **4.**

The Government of Canada continues to receive enquiries on the possibility of health effects from exposure to radiofrequency radiation from various wireless devices and their infrastructure in living, working and school environments. In recent years, questions and concerns on potential health effects regarding 5G technology using millimeter wave bands has increased.