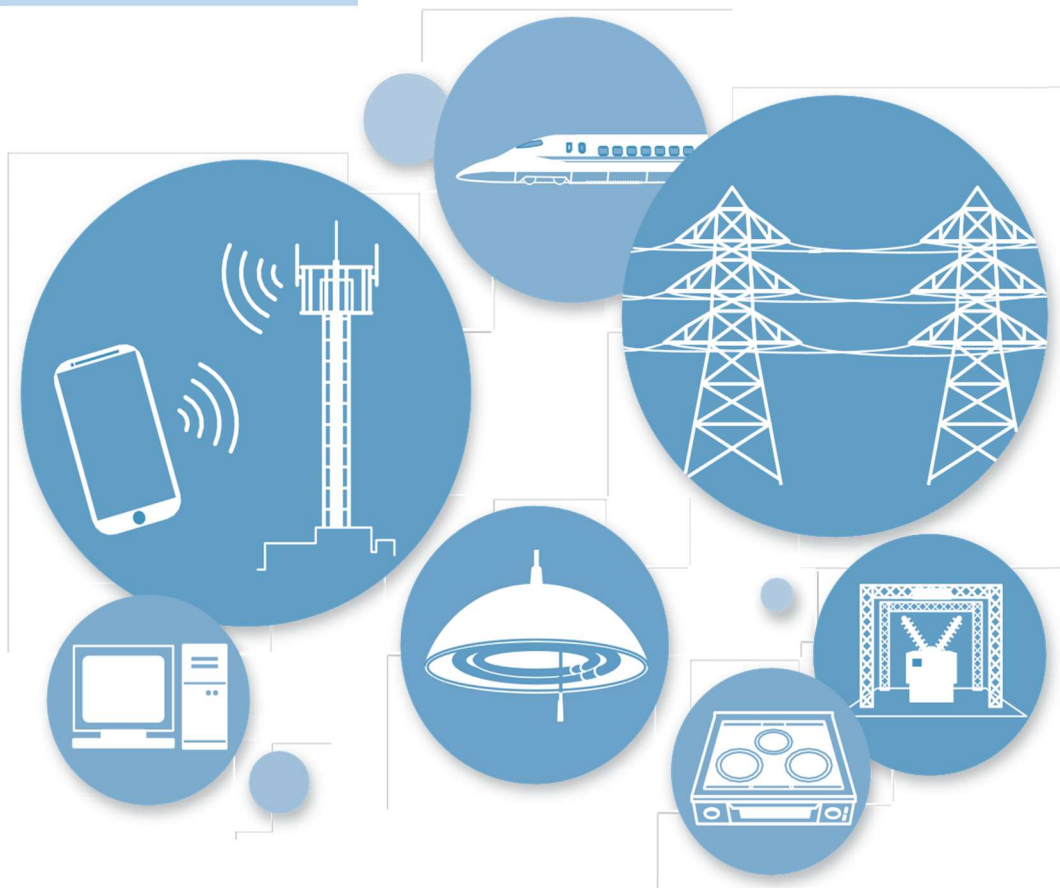


Fiscal Year 2024

Activity Report from Japan EMF Information Center



Japan EMF Information Center

Japan Electrical Safety & Environment Technology Laboratories (JET)

April 1, 2025

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Preface

Reflecting on FY2024: Activities of the JEIC and Trends in Public Interest

The Japan EMF Information Center (JEIC) has now reached its 16th year since its establishment in 2008. During this period, we have steadily built up a track record of activities through various initiatives, including hosting numerous lectures and seminars, responding to daily inquiries from the public, and conducting magnetic field measurements. The fiscal year 2024 was a year of new challenges, as we looked toward expanding our initiatives beyond the established foundation.



COVID-19 Pandemic and Changes in Public Concern

From FY2019 to FY2021—especially FY2020—the spread of COVID-19 significantly restricted in-person activities. The number of lectures held declined sharply, as did the number of inquiries from the public. During this period, public attention focused on the unprecedented health risk of the novel virus, resulting in a temporary decline in concern about the health effects of electromagnetic fields (EMFs). In a sense, it was a time when "people had more pressing matters than EMFs."

Even now, the effects remain in part. Requests from local governments and other entities for lectures have not returned to pre-pandemic levels in FY2024. This seems to reflect a broader trend of reduced in-person seminars organized by local governments, not limited to EMF-related topics.

Record Number of Public Inquiries

On the other hand, FY2024 saw a record number of inquiries related to EMFs. This indicates a renewed rise in public concern about EMF health effects and we believe that JEIC's information dissemination and risk communication efforts are steadily yielding results.

However, a particularly notable recent increase is in inquiries related to so-called "electromagnetic wave attacks." This is a phenomenon that the JEIC is closely monitoring.

Background of Interest in “Electromagnetic Wave Attacks”

A historically well-known incident related to "electromagnetic wave attacks" is the microwave irradiation to the U.S. Embassy in Moscow by the former Soviet Union from 1953 to 1976. This involved the use of low-power microwaves, allegedly for espionage or neural/psychological manipulation, and remains a subject of research today as a Cold War-era symbol.

More recently, in 2016, U.S. embassy personnel in Havana, Cuba, reported neurological symptoms such as headaches, dizziness, and cognitive impairment—later termed the “Havana Syndrome.” In response, the U.S. Office of the Director of National Intelligence (ODNI) stated in 2023 that “the likelihood of a foreign adversary attack is low.” For scientific evaluations, please refer to the following reports:

- National Academies of Sciences (NAS) assessment (December 2020):
<https://www.jeic-emf.jp/academic/commentary/RRG7.html>
- Updated ODNI assessment (as of December 2024):
<https://www.jeic-emf.jp/academic/info/20250120.html>

These reports have been widely covered in the media and are considered one factor that has sparked public concern about “electromagnetic wave attacks.”

The Problem of Fake News and Its Spread Structures

Since the COVID-19 pandemic, the explosive growth of information distribution via social media has led to a parallel increase in scientifically unsubstantiated information. Particularly, information related to EMFs is heavily influenced by environments like Filter Bubbles and Echo Chambers, where individuals are surrounded by anxiety-amplifying content, making rational judgment more difficult.

Humans are naturally inclined to select information that aligns with their beliefs. Internet algorithms reinforce this tendency, causing information to reverberate and amplify among like-minded individuals. As a result, once formed beliefs become difficult to change. Concern about EMFs is significantly affected by this structure.

Changes in Inquiry Trends

Inquiries to the center about “electromagnetic hypersensitivity” decreased approximately 15% from 559 cases in 2015–2019 to 477 cases in 2020–2024. In contrast, inquiries about “electromagnetic wave attacks” increased by about 70%, from 426 to 724 over the same

period. While these two topics share a similar underlying concern, they likely stem from different population groups.

Social Concerns and Fraud Cases

In FY2023, a fraud case emerged where individuals were deceived into believing in the existence of "electromagnetic wave attacks" and defrauded of money. Tokyo Metropolitan Police intervened in this incident. There have always been unscrupulous businesses that exploit people's anxieties for profit, but in today's world—where advanced communication technologies are becoming widespread—using “electromagnetic wave attacks” as a new pretext for fraud is an extremely alarming issue.

Conclusion

The JEIC will continue striving to deliver accurate, science-based information to the public. By doing so, we aim to protect the public from fear-driven misinformation and contribute to the development of sound understanding and dialogue. We welcome your opinions and questions at any time.

Chiyoji Ohkubo PhD

Director

Japan EMF Information Center

Overview of Activities for Fiscal Year 2024

Domestic and International Social Events in Fiscal Year 2024

Looking back on FY2024, starting with sports, Japan achieved its highest-ever medal count at an overseas-hosted Olympic Games during the Paris Olympics. In Major League Baseball, Shohei Ohtani had another outstanding season following his success in 2023, contributing to the Dodgers' victory in the World Series. These are just a few of the many positive events that occurred.

On the other hand, in domestic affairs, Japan saw the issuance of newly designed banknotes for the first time in 20 years by the Bank of Japan, the inauguration of the Ishiba Cabinet, and a deepening Yen depreciation. Combined with a rice shortage and record-high inflation, these developments severely impacted the lives of the Japanese people. Internationally, the ongoing invasion of Ukraine, the Gaza conflict, and heightened tensions in the Taiwan Strait have persisted. In addition, the re-election of Donald Trump as President of the United States has brought significant political changes affecting the global landscape. In summary, FY2024 can be described as a pivotal year that shaped the future of the international community.

Amid such circumstances, regarding EMF and health issues, on May 17, 2024, the Scientific Committee on Health, Environmental and Emerging Risks (SCHEER) of the European Commission released its final opinion on low-frequency EMFs up to 100 kHz. As with its previous opinion in 2015, the committee concluded that the evidence linking extremely low-frequency magnetic field exposure to childhood leukemia remains weak. Furthermore, in September of last year, Sweden's government agency, the Swedish Radiation Safety Authority (SSM)—an organization with a deep-rooted focus on prevention and welfare—released a report titled “Recent Research on EMF and Health Risks.” This report also stated that no new evidence has emerged to significantly alter the view that the causal relationship between low-frequency magnetic fields and childhood leukemia remains unconfirmed. In other words, despite additional studies since the publication of the WHO Environmental Health Criteria in 2007 summarizing health risk assessments of extremely low-frequency EMFs, the conclusions remain unchanged.

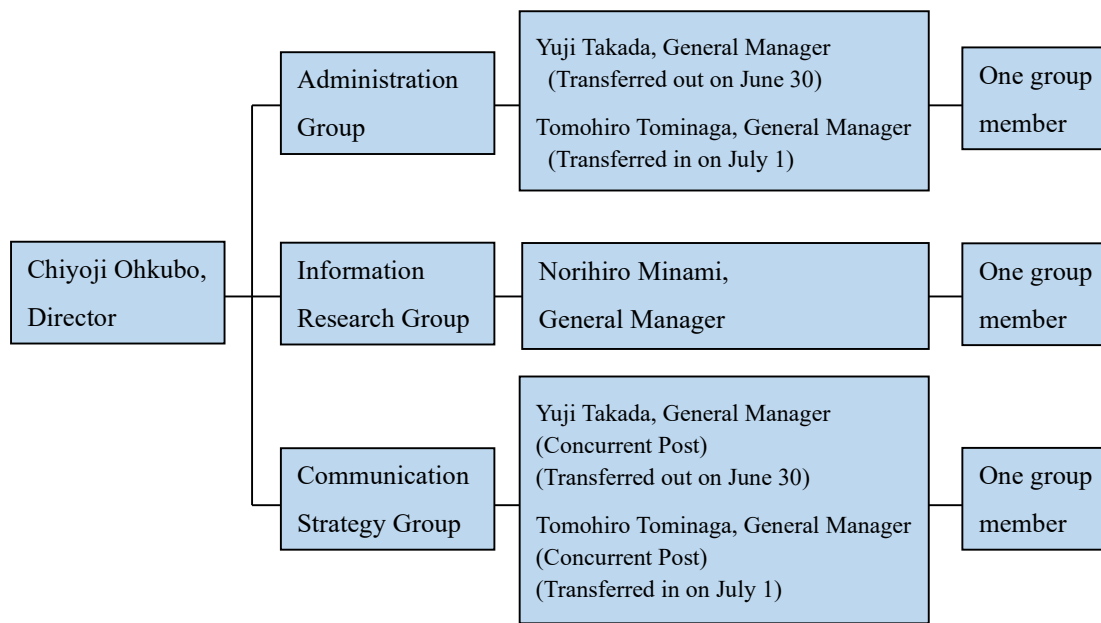
As for radiofrequency EMFs, in April of last year, the International Agency for Research on Cancer (IARC) advisory group recommended prioritizing the re-evaluation of carcinogenic classification due to new evidence regarding human and animal carcinogenicity. Additionally, in January 2025, the International Commission on Non-Ionizing Radiation Protection (ICNIRP) issued a statement titled “Gaps in Knowledge Relevant to the ICNIRP Guidelines for Limiting Exposure to Time-Varying Electric,

Magnetic and Electromagnetic Fields (100 kHz TO 300 GHz)", recommending further research to improve the application of exposure limits in future guidelines. In any case, the World Health Organization (WHO) is currently conducting a health risk assessment of radiofrequency EMFs, and some developments are anticipated during fiscal year 2025.

Overview of Activities for Fiscal Year 2024

I. Organization and Personnel

(From April 1, 2024 to March 31, 2025)



II. Administration

A. Administration Audit Committee

In order to fully leverage the capabilities of JEIC, it is crucial for the organization to gain the trust of the public, who are the primary recipients of its information. To ensure oversight of JEIC's operations, "Administrative Audit Committee" has been established as a supervisory body above the organization. This committee, comprising eight members—including academics with extensive knowledge, consumer representatives, and media professionals—reviews and approves JEIC's various activities to ensure neutrality and transparency. JEIC conducts its activities only after receiving the committee's approval.

In FY2024, two Administration Audit Committee meetings were held.

The committee members and main agenda items for each meeting are as follows:

List of Administration Audit Committee Members (titles omitted)

Chairperson	
Toshio Kinoshita	Professor Emeritus, Kyoto University Fellow, International Institute for Advanced Studies (IIAS)
Vice Chairperson	
Junichi Hara	Advisor, Osaka City General Medical Hospital
Members	
Takashi Eto	Professor Emeritus, University of Tokyo Honorary Director, Japan Child and Family Research Institute
Hiromitsu Ogata	Professor, Laboratory of Epidemiology and Biostatistics, Kagawa Nutrition University
Masami Kojima	Journalist(Former Editorial Board Member, The Mainichi Newspaper) Co-representative, Food Safety Information Network Former Representative, Japan Food Journalist Association
Eriko Tobita	Director, Federation of Tokyo Metropolitan Women's Associations
Kumiko Adachi	Professor, Division of Midwifery, Graduate School of Human Health Sciences, Tokyo Metropolitan University
Tamayo Kimura	International Standardization Promotion Manager, SHUFUREN (Association of Consumer Organizations)

(As of March 2025)

<34th Administration Audit Committee Meeting>

- Date and Time: Tuesday, September 3, 2024, 15:00–17:10
- Agenda:
 - FY2023 Financial Results
 - Status of FY2024 Project Implementation
- Main Discussions:

An overview was provided on investigations of magnetic fields generated by automobiles and electromagnetic waves emitted from smart meters, as well as on the progress of the English version of the website renewal. Discussions included clarification of the target audience for the English website. Additionally, there was a Q&A session regarding the status of responses to inquiries from the general public and the approach to risk communication.

<35th Administration Audit Committee Meeting>

- Date and Time: Wednesday, March 26, 2025, 15:00 – 17:00
- Agenda:
 - Status of FY2024 Budget Execution
 - Status of FY2024 Business Implementation
 - Draft Plan for FY2025 Business Activities
 - Draft Budget for FY2025
- Main Discussions:

The status of the FY2024 budget execution and the results of the investigation on magnetic fields generated by automobiles were presented. Additionally, under the draft plan for FY2025 activities, explanations were given regarding the investigation of magnetic fields generated by railways and new methods of information dissemination through social media (SNS). Opinions were shared regarding measurements that include environmental changes such as the presence or absence of vehicles on station platforms.

B. Expert Network

As in the previous fiscal year, we received objective opinions from the following expert network members regarding the expertise and clarity of the JEIC's routine activities in information research and information provision.

○Domestic Members

Name	Area of Expertise
Masateru Ikehata	Molecular Biology, Railway Technology
Katsuo Isaka	Electrical Engineering (Low-Frequency Electromagnetic Field Measurement Technology)
Akira Ushiyama	Environmental Physiology, Hygiene
Masao Taki	Electrical Engineering (Dosimetry Evaluation of Electromagnetic Fields)
Shoji Tsuchida	Safety Psychology, Social Psychology
Satoshi Nakasono	Toxicology, Cellular and Molecular Biology
Yukio Mizuno	Electrical Engineering (Low-Frequency Electromagnetic Field Measurement Technology)
Hiroaki Miyagi	Public Health
Junji Miyakoshi	Electromagnetic life science, radiation biology, molecular cell biology
Sachiko Yamaguchi	Biomedical Engineering, Occupational Hygiene
Naoto Yamaguchi	Epidemiology
Kenichi Yamazaki	Electrical Engineering (Dosimetry Evaluation of Low-Frequency Electromagnetic Fields)
Soichi Watanabe	Electrical Engineering (Exposure Assessment of High-Frequency Electromagnetic Fields)

(As of March 2025, listed in Japanese alphabetical order, honorifics omitted)

○Overseas (Rapid Response Group (RRG))

Name	Area of Expertise
Alexander Lerchl	Biology
Bernard Veyret	Biology
Martin Roosli	Epidemiology
Mike Repacholi	Physics/Bioengineering (Coordinator)
Niels Kuster	Physics/Engineering/Dosimetry
Phil Chadwick	Physics/Engineering/Dosimetry

Name	Area of Expertise
Susanna Lagorio	Epidemiology
Zenon Sienkiewicz	Biology

(As of March 2025, listed in alphabetical order, honorifics omitted)

- * Members of the expert network who have agreed to have their names disclosed are listed.
- * RRG is an organization that evaluates important scientific research reports that are deemed to require scientific review.

III. Financial Statements

The fiscal year 2024 financial statements are as follows. As of March 2025, there are 19 corporate members and 54 individual members.

[FY2024 Income and Expense Statement]

(Unit: Thousand yen)

Item	Details	FY2024 Settlement	FY2023 Settlement
<Revenue>		106,236	106,223
	Membership Fees	106,236	106,223
<Expenses>		133,434	124,332
Administrative Expenses	Office Expenses	47,602	46,310
	Subtotal	47,602	46,310
Expenses related to Information Research	Information Collection and Research	35,012	30,006
	Database Operation	565	1,985
	Various Study Group Operation	9,607	4,812
	Subtotal	45,184	36,803
Expenses related to Information Provision	Lectures and Seminar about EMF	15,047	18,637
	Response to request of lectures	323	608
	Website operation	6,154	2,235
	Publication operation	16,410	17,508
	Purchase and Calibration of magnetic field measuring devices for rental service, etc.	1,524	1,621
	Advertising	1,190	610
	Subtotal	40,648	41,219
Net income (Revenue - Expenses)		△27,198	△18,109

IV. Activities

A. Information Collection and Research

1. Information Collection

We collected relevant information from domestic and international sources on a daily basis through the information collection channels we have established. Of these, 39 times were introduced on our website as “Latest Information.”

2. Information Research

a) Detailed Information Research

[Final Opinion of the Scientific Committee on Health, Environmental and Emerging Risks (SCHEER) on the Potential Health Effects of Exposure to Low-Frequency Electromagnetic Fields]

The "Scientific Committee on Health, Environmental and Emerging Risks (SCHEER)," a scientific advisory body to the European Commission (the executive body of the European Union), published a final opinion titled "Potential health effects of exposure to electromagnetic fields (EMF): Update with regard to frequencies between 1 Hz and 100 kHz". A summary of this report was presented and introduced on the website. For further details, please visit the website.

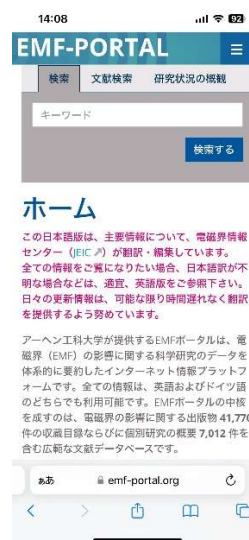
(<https://www.jeic-emf.jp/academic/info/2025022803.html>)

b) Participation in the EMF-Portal

The Research Center for Bioelectromagnetic Interaction (*femu*) at the Institute of Occupational Medicine, Medical Center of the RWTH Aachen University in Germany operates the EMF-Portal, the world's largest public database on EMFs (as of March 2025, with approximately 46,500 registered entries, including detailed information on approximately 8,900 entries related to health effects). JEIC has been participating in the EMF-Portal since September 2014, publishing Japanese translations of papers related to the health effects of EMFs. We will continue to enhance the content of the Japanese version and translate papers as quickly as possible, disseminating the information on an ongoing basis.



PC viewing screen image



Viewing screen image on mobile device

c) Information Organization

We are registering publicly available documents, such as academic papers and public reports, in the "JEIC EMF Information Database," which is easily accessible for the general public. As of March 31, 2025, the total number of registered entries has increased by 333 from the previous year, reaching 18,656. Of these, 12,900 entries are also registered in the EMF-Portal, with summaries provided for 9,162 entries. The breakdown is as follows.

Document Type	Number of Entries
Academic Papers	17,963
International Organization Publications & Foreign Documents	400
Domestic Public Documents	80
Regulations, Guidelines, and Technical Standards	53
General Books / Reports	146
Others	14
Total	18,656

d) Magnetic Field Measurement Project Team Activities

The "Magnetic Field Measurement Project Team" was established in fiscal year 2010 with the aim of measuring the magnetic field levels of EMF sources that have recently become widespread or have not been published by JEIC. The team also aims to disseminate the results of these measurements and investigations to the public. In fiscal year 2024, the following measurements and investigations were carried out.

(1) Investigation of magnetic fields generated by vehicles

In 2013, we published the results of magnetic field measurements for electric vehicles (EVs), hybrid vehicles (HVs), and gasoline-powered vehicles (ICE) on our website. Approximately 10 years have passed since the previous investigation, and during this period, the global adoption of EVs and plug-in hybrid vehicles (PHEVs) has progressed rapidly. Additionally, IEC 62764-1:2022, which specifies methods for measuring magnetic fields from vehicles, has been established. Therefore, we have conducted magnetic field measurements on current vehicle models. The measured magnetic fields (effective values) were 4.67 μT for EVs, 20.2 μT for PHEVs, and 8.78 μT for ICEVs, all of which were below the reference levels for public exposure established by the International Commission on Non-Ionizing Radiation Protection (ICNIRP). The results were presented at a domestic academic conference.

(2) Investigation of radiofrequency EMFs generated by smart meters

In recent years, smart meters equipped with wireless communication functions have been introduced to replace conventional electricity meters, and almost all electricity meters have been replaced with smart meters. However, there have been few reports on the measurement of radiofrequency EMFs generated by smart meters in Japan. Therefore, we measured radiofrequency EMFs from smart meters operating in 920

MHz band, which are mainly used in Japan. The electric field strength of the EMFs from the smart meters ranged from 0.02 to 0.15 V/m (6-minute average), which is lower than the guideline value of 48 V/m (920 MHz) specified in the Radio Radiation Protection Guidelines of the Ministry of Internal Affairs and Communications. Additionally, the smart meters emitted signals multiple times within a 30-minute period, with irregular intervals and varying durations each time. The results were presented at domestic academic conferences.

(3) Investigation of magnetic fields generated by trains

There have been concerns about the health effects of magnetic field exposure from railway vehicles and along railway tracks, and we have received inquiries regarding this matter. Additionally, there are few reports on the measurement of magnetic fields generated by railway vehicles and railway facilities in Japan. Therefore, we have decided to conduct new magnetic field measurements on railway vehicles and railway facilities, including Shinkansen (bullet train) and conventional lines.

B. Information Provision

1. Distribution of Internet Advertisements

In order to promote understanding of JEIC's work, we distributed internet advertisements for the web seminars and electromagnetic field measuring device rental services conducted by JEIC.



Examples of Internet advertisements

2. SNS (Facebook, X) Distribution

With the widespread use of smartphones, information dissemination via social media (social networking services) has become active. Therefore, we are proactively sharing information on the webinars held by JEIC, activity announcements, and comments on news articles via platforms like Facebook and X.



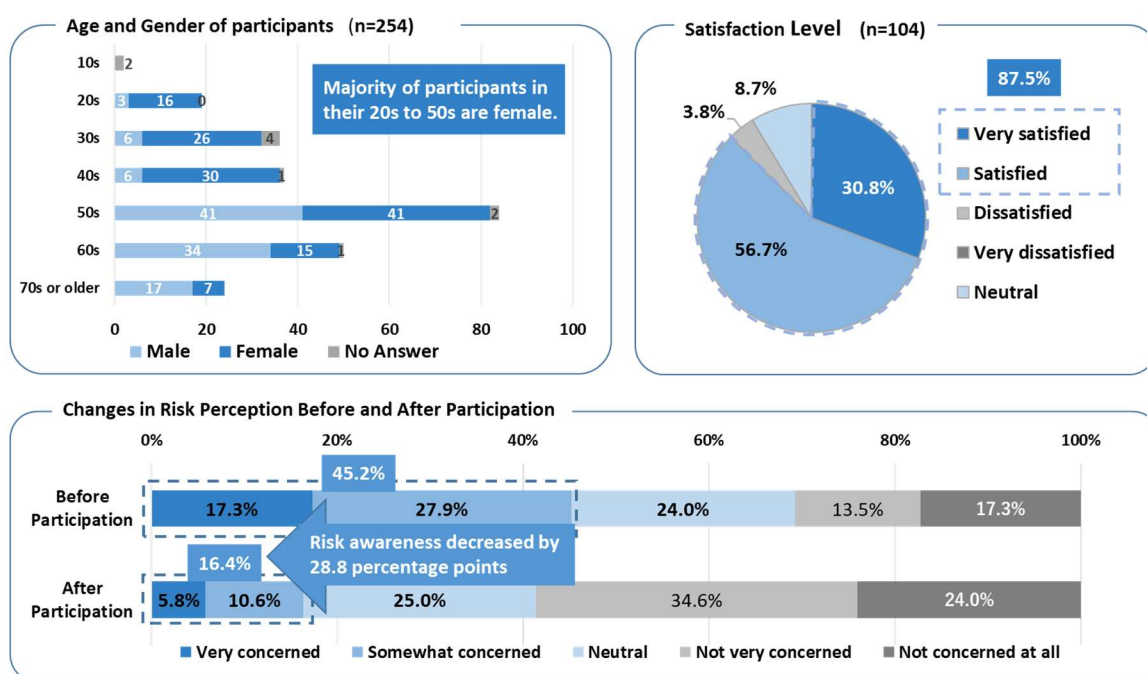
Examples of distribute on Facebook and X

3. Web Seminar Hosting

In fiscal year 2024, we held six webinars, each covering a different theme:

- Power Equipment & Home Appliances (Low Frequency)
- Induction Heating & Microwaves (Intermediate & High Frequency)
- Mobile Phones
- International Guidelines
- Electromagnetic Hypersensitivity
- Q&A

Each session had around 40 participants, and we received positive feedback from many attendees, who were satisfied with both the presentations and the responses to the questions.



Survey Results of 2024 Web Seminar Participants

4. Newsletter Publication

We published a newsletter with content that is easy to understand, such as explanations of health issues of EMFs and the activities of JEIC. In fiscal year 2024, we published three issues of our newsletter No. 69 to 71. The main content of the newsletters published in the 2024 fiscal year is as follows:

a) Technical Explanations

- Opinion of the European Commission's Scientific Committee on Health, Environmental and Emerging Risks (SCHEER) on radiofrequency EMFs
- Preliminary opinion of SCHEER on low-frequency EMFs
- 18th Report on "Recent Studies on Electromagnetic Fields and Health Risks" by the Swedish Radiation Safety Authority (SSM) (2023)



b) Activities of JEIC

- Report on the business trip to Malaysia
- Report on the presentation at EMC Japan/APEMC Okinawa
- Report on the presentation at BioEM 2024 (Crete, Greece)
- Report on the magnetic field generated by handheld fans

5. Distribution of Email Newsletters

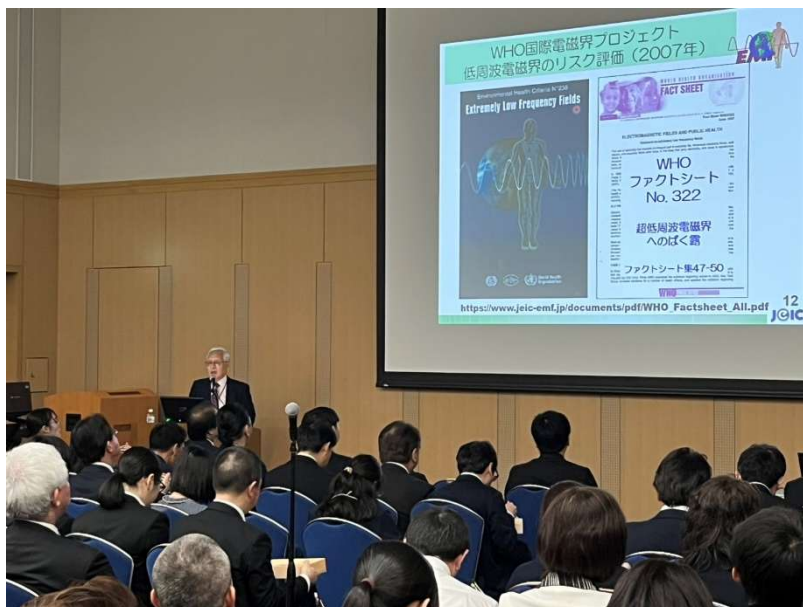
A monthly email newsletter was distributed, providing the latest information on EMFs, announcements for various seminars and events, along with seasonal topics. As of March 2025, the current issue is No. 173. The number of newsletter members as of March 31, 2025, is 1,822 (a decrease of 54 members from the previous year).

6. Information Provision Activities at Lectures

In order to meet the need for information regarding EMFs, seminars for professionals at academic conferences and lectures on requests from local governments and organizations were conducted as part of promoting our efforts.

a) Promoting understanding of JEIC's activities among education and medical professionals (e.g., through luncheon seminars)

We conducted 11 luncheon seminars in person at academic conferences attended by professionals in school health and social medicine, introducing the views of the World Health Organization (WHO).



Luncheon seminar (The 145th Annual Meeting of the Pharmaceutical Society of Japan)

Participation in Academic Conferences and Seminars

No	Event Name	Date
1	97th Annual Meeting of Japan Society for Occupational Health	May 25, 2024
2	34th Annual Conference and General Assembly of Japanese Academy of Psychiatric and Mental Health Nursing	June 2, 2024
3	34th Annual Conference of Japanese Society of Child Health Nursing	July 6, 2024
4	30th Academic Conference of Japan Society of Nursing Diagnosis	July 27, 2024
5	56th Annual Conference of Japan Society for Medical Education	August 9, 2024
6	50th Annual Conference of Japan Society of Nursing Research	August 24, 2024
7	67th Annual Meeting of Japanese Radiation Research Society / 12th Annual Conference of the Japan Association for Radiation Accident and Disaster Medicine	September 27, 2024
8	55th Annual Conference of Japan Nursing Science Society	September 29, 2024
9	APPW2025: Joint Congress of the 130th Annual Meeting of The Japanese Association of Anatomists / 102nd Annual Meeting of The Physiological Society of Japan / 98th Annual Meeting of The Japanese Pharmacological Society	March 17, 2025
10	95th Annual Meeting of The Japanese Society For Hygiene	March 21, 2025
11	145th Annual Meeting of The Pharmaceutical Society of Japan	March 28, 2025

FY2024 Activities Total: 11 sessions held (including luncheon seminars), with a total of 1,260 participants

b) Dispatch of Lecturers for Requested Lectures and Similar Events

In fiscal year 2024, we received 19 requests for lectures from government agencies, educational institutions, and organizations. A total of 1,434 participants attended these lectures. The main requesting organizations are listed below.

No	Requesting Organization*	Date
1	Malaysian Nuclear Agency	May 16, 2024
2	Anan Public Health Center, Tokushima Prefecture	November 25, 2024
3	Ministry of Economy, Trade and Industry / Ministry of Internal Affairs and Communications	November 8, 2024 November 22, 2024 December 3, 2024 December 18, 2024 January 24, 2025 February 7, 2025
4	University of Occupational and Environmental Health - Occupational Health Training Center	July 26, 2024
5	Akita University – Faculty of Medicine	September 17, 2024

* Requesting organizations are listed as government agencies and educational institutions.

7. Promoting understanding among Pregnant Women

Due to the large number of inquiries received from pregnant women and mothers raising children regarding health concerns about fetal or child exposure to EMFs, we collaborated with the Japan Mothers' and Children's Health Organization in a project aimed at dispelling excessive anxiety and promoting accurate understanding. This included the distribution of educational materials for pregnant women and hosting seminars for public health nurses and midwives.

a) Distribution of Educational Materials for Pregnant Women

The educational booklet for pregnant women, titled “A Story about Electromagnetic Waves for Babies and Moms You Should Know from Pregnancy”, is distributed nationwide to expectant mothers as a supplementary reader to the Maternal and Child Health Handbook, which is issued at municipal offices. In fiscal year 2024, the 7th edition was revised, and a total of 660,000 copies are scheduled to be distributed by September 2025.



From left to right:

Educational Material for Pregnant Women (7th Edition)

Maternal and Child Health Handbook

Maternal and Child Health Handbook and Supplementary Booklet

b) Seminar for Maternal and Child Health Professionals

We dispatched lecturers to maternal and child health seminars organized by the Maternal and Child Health Study Group for promoting science-based understanding of EMFs among municipal public health nurses, midwives, and other maternal and child health professionals who support pregnant women and mothers raising children. Videos of the lectures were filmed on the day of the seminar and were later distributed online.

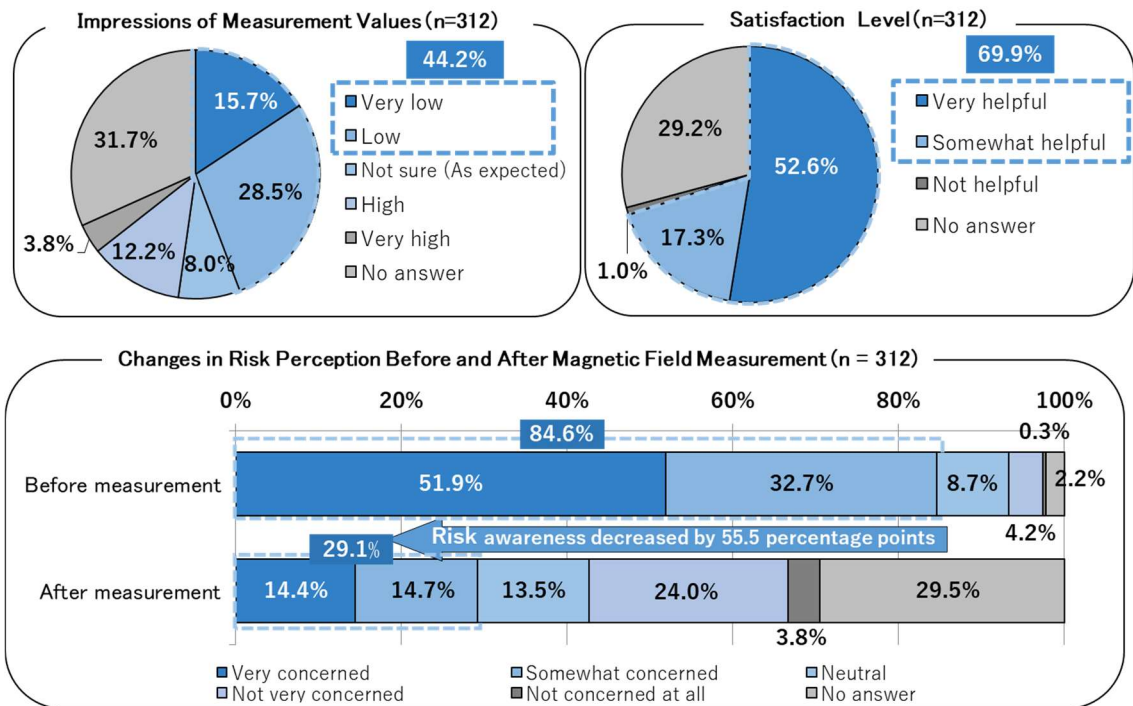
Seminar Name	Date
Maternal and Child Health Seminar (Sendai City)	October 7, 2024 (Video Distribution Period: January 15 – February 17, 2024)

8. Free Rental Service of Low-Frequency Magnetic Field Meters

Since 2013, we have been providing a free rental service of low-frequency magnetic field meters to enable individuals concerned about the health effects of EMFs to measure and better understand the magnitude and nature of EMFs in their surroundings.

a) Number of Rental cases and Survey Results from users

In fiscal year 2024, there were 312 rental cases, the highest number since the service began in 2013, thanks to promotions through internet advertisements and lecture events. Survey responses from users indicated that their degree of concerns about EMFs decreased after using the meter, and overall satisfaction was high.

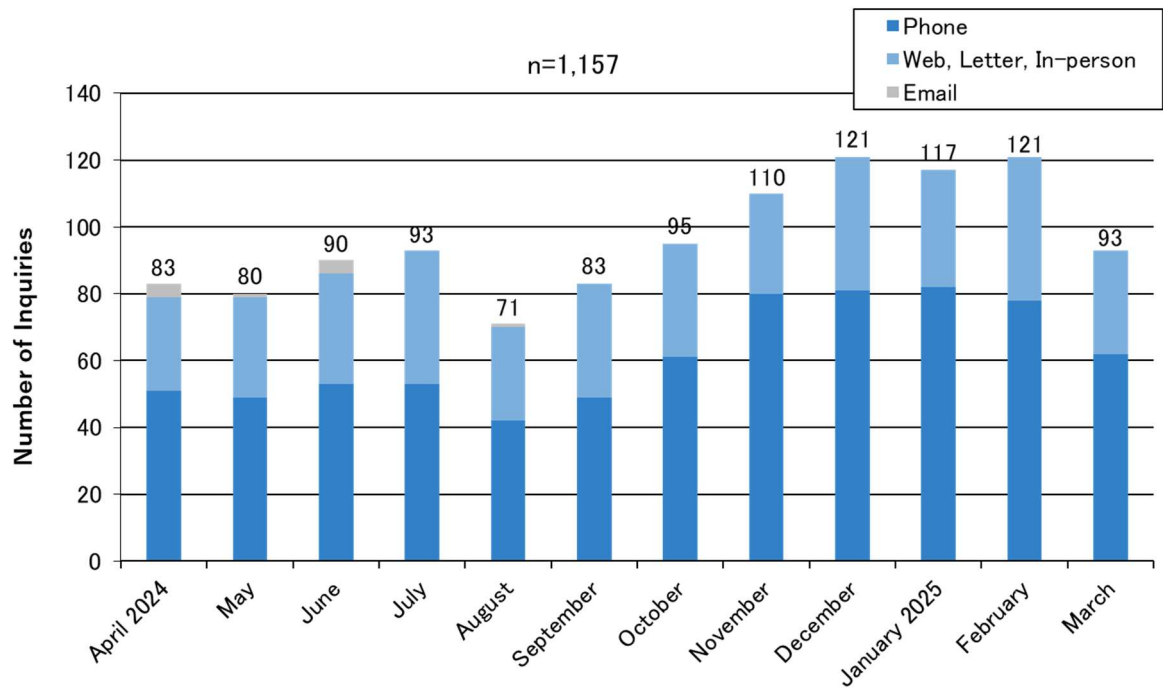


Evaluation results of survey responses from users

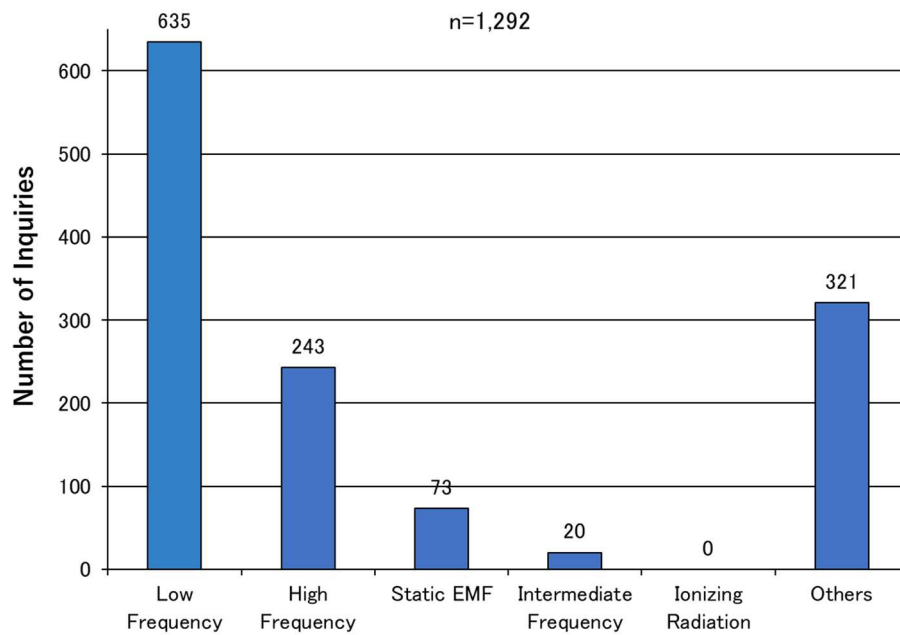
9. Responding to Inquiries

As part of our daily operations, we responded to various inquiries related to EMFs (via email, website, letters, in-person meetings, and telephone).

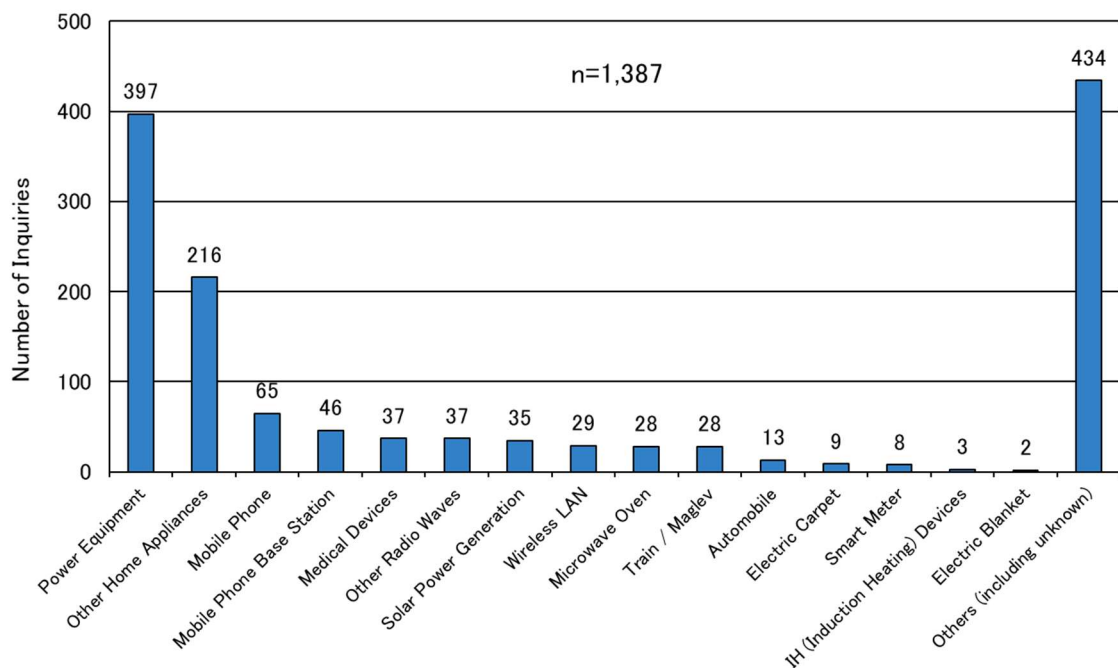
The total number of inquiries in FY2024 was 1,157. The breakdown is as follows:



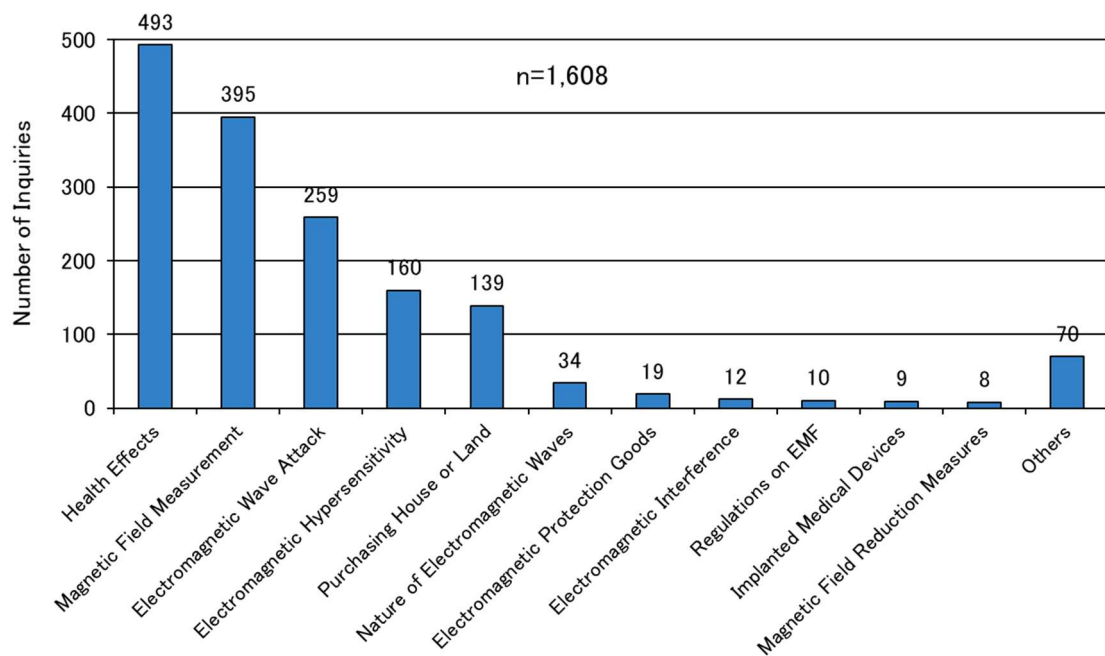
Monthly Number of Inquiries in FY2024



Number of Inquiries by Frequency in FY2024 (Including Multiple Topics per Inquiry)



Number of Inquiries by Source in FY2024 (Including Multiple Topics per Inquiry)



Number of Inquiries by Content in FY2024 (Including Multiple Topics per Inquiry)

C. Commissioned Projects

We were commissioned by the Ministry of Economy, Trade and Industry (METI) to conduct the “Fiscal Year 2024 Survey and Research on the Establishment of Technical Standards for Industrial Safety and Other Matters (Survey and Provision of Electromagnetic Field Information for Power Facilities)” As part of this project, we served as the secretariat for the "Lecture on Health Effects of EMFs," jointly organized by the Ministry of Economy, Trade and Industry and the Ministry of Internal Affairs and Communications. Director Ohkubo gave a presentation as an expert. The lecture was held simultaneously online at six venues nationwide, with a total of 1,082 registrations and 784 participants.



Lecture on the Health Effects of EMFs (Nagoya venue)

D. Social Contribution Activities

The Electromagnetic Field Information Center leverages its expertise to contribute to international organizations, academic societies in Japan and abroad, and various committee activities. Major activities are as follows:

Personnel	Activity Overview
Chiyoji Okubo, Director	● Member, International Advisory Committee of the WHO International EMF Project ● Chair, Study Group on Biological Electromagnetic Environment, Ministry of Internal Affairs and Communications ● Chair, Evaluation Committee on Research of Biological Electromagnetic Environment and Safety of Radio Waves, Ministry of Internal Affairs and Communications ● Director, The Watanabe Foundation (Public Interest Incorporated Foundation) ● Honorary Member, Japanese Society for Microcirculation

Personnel	Activity Overview
Norihiro Minami, Manager of Information Research Group	● Member, Low Frequency Committee of the IEC/TC106 Domestic Committee ● Member, Drafting Committee for JIS (JIS C 1910-1) ● Secretary, CIGRE SC C3 Domestic Study Group ● Member, CIGRE AG C3.01 Domestic Subcommittee ● Member, CIGRE SC C4 Domestic Study Group ● Secretary, IEEJ Special Committee on Advanced Evaluation of Environmental EMF around Electric Power Facilities and Current Trends ● Assistant Secretary, IEEJ Expert Committee on Health Risk Analysis of Electromagnetic Fields (Phase III) ● Member, IEEJ Special Committee on Emerging Technologies for Advanced EMF Exposure Assessment

E. International Framework for Risk Communication on Electromagnetic Fields

While natural EMF sources exist, anthropogenic EMF exposure has increased significantly due to developments in electricity, telecommunications, and medical technologies. Common sources include power lines, household devices, mobile phones, and wireless networks, leading to public concern about potential health effects. The European Commission conducted surveys on EMF risk perception in 2006 and 2010. With recent advancements like 5G and wireless power transfer, updated surveys are needed to assess current public perceptions and improve risk communication strategies. In 2023, organizations from Japan, Germany, and Poland signed a Memorandum of Understanding (MoU) to enhance international cooperation on EMF risk communication, and national surveys were conducted in 2024 under this framework.



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