

Frequency of Fields Associated with Electricity

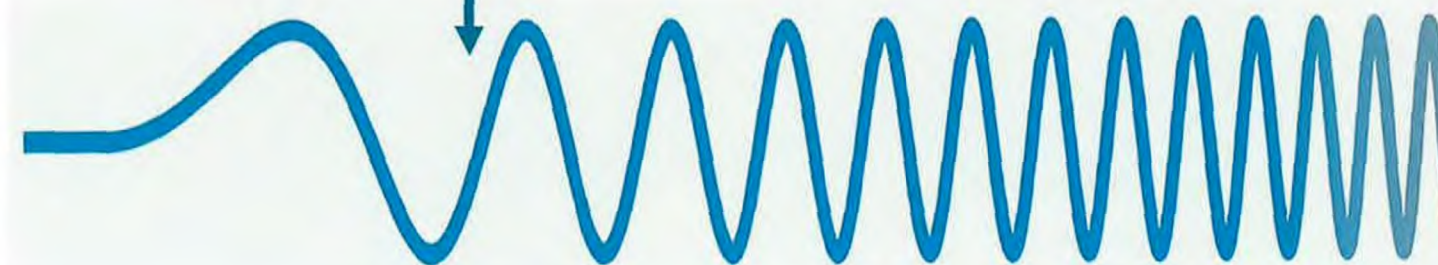
Direct Current (DC) Fields (aka Static Fields)
0 Hertz [Hz]

**Static Fields
(0 Hz)**



Alternating Current (AC) Fields (aka EMF)
1-3,000 Hz (50 Hz is dominant in Europe)

Power Grid Frequency (50/60 Hz)



Extremely-Low Frequency (ELF Fields (<3,000 Hz))

- The static field from DC cables has the same frequency (0 Hz) as the static field of the Earth.
- The natural background DC magnetic field in Rhode Island is about 500 mG (IGRF, 2022).
- The natural background value of 50/60 Hz is about 0.000001 μT [0.0000001 mG].¹