

Issues in Electricity

Electric and magnetic fields are created by electric lines needed to power our society. YVEC is obligated to meet its customers' needs by providing service that is reliable and economical and as safe as possible. We must design and operate our electric system in a manner consistent with all these obligations.

YVEC has followed scientific studies and developments related to EMF for decades. We have participated in EMF research through membership in trade associations and have communicated with customers and employees on the issue.

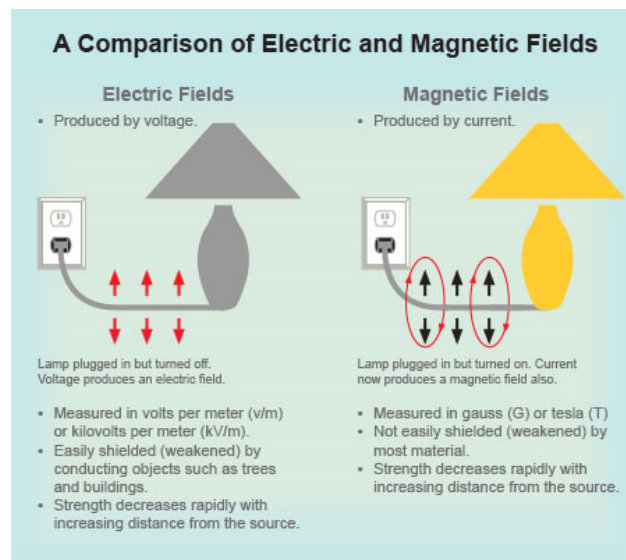
Electric and magnetic fields

Electric and magnetic fields are everywhere. Virtually all human beings in industrialized countries are exposed to them most of the time. Electric and magnetic fields (EMF) occur in nature and wherever electricity flows.

Electric fields are produced by the presence of voltage or an electrical charge: the higher the voltage, the greater the electric field.

The earth's magnetic field is the force that causes a compass to always point north. Magnetic fields also result from current or the flow of electricity in a wire; field strength increases as the current increases and decreases as distance from the wire increases.

Objects such as trees, shrubs and buildings can block electric fields. Magnetic fields, however, are not easily blocked and can pass through most objects. The strength of both fields declines rapidly as the distance from the wire increases.



Source: www.niehs.nih.gov