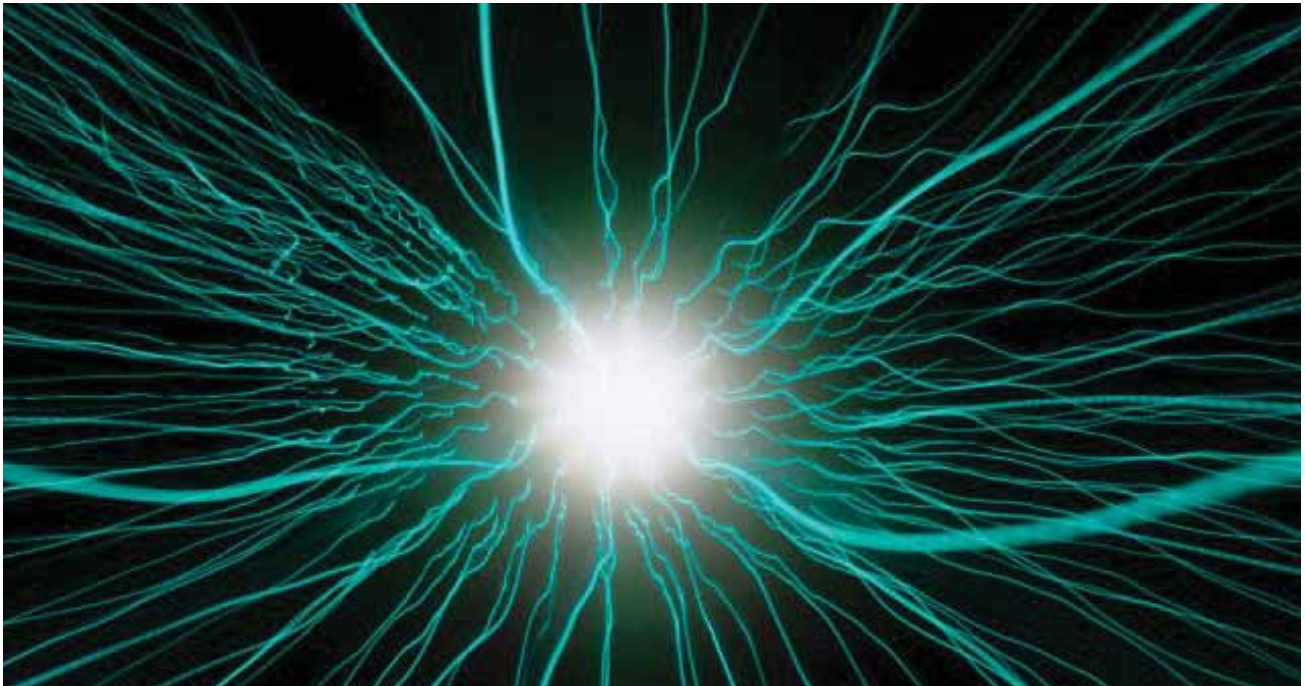


Is Your Data Center Safe From EMP Threats?



Enabling Your Success™

 **ETS·LINDGREN™**
An ESCO Technologies Company



What is EMP?

EMP (electromagnetic pulse) is a sudden burst of high energy electromagnetic radiation that can couple with electrical and electronic systems to create damaging current and voltage surges. The surges' extremely fast rise time and excessively high voltage can overwhelm and destroy data processing and storage systems.

EMP is generated by solar geomagnetic storms, high-altitude nuclear explosions (HEMP), or by non-nuclear man-made pulse generating devices (NNEMP).

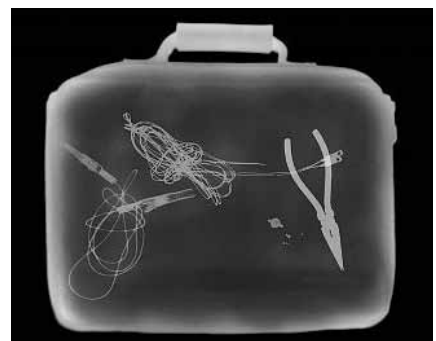
EMP can pass through walls as a radiated pulse traveling in free-space, or travel along conductive pathways, like incoming power lines and signal cabling.



Solar Flares



Nuclear Events



Man-made Devices



How can I protect against EMP threats?

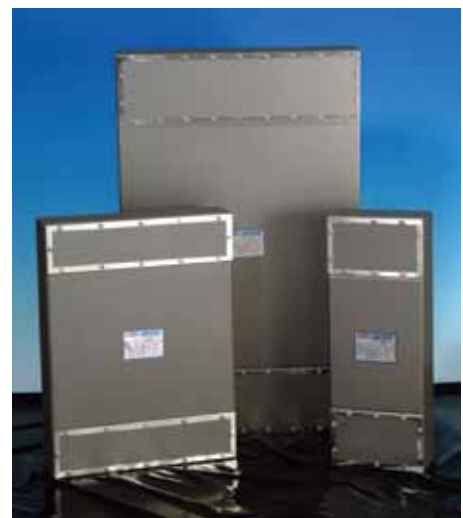
Vital assets can be protected from damaging EMP strikes using a few proven, practical solutions.

Radiated pulses can be stopped by placing equipment inside rooms made with special metal alloy panels. The rooms can be retrofitted to existing facilities, or incorporated in new construction. Pulses that are conducted on power lines and cabling can be blocked at entry points with high-performance electromagnetic filters.

With the possibility of geomagnetic storms occurring with unpredictable levels of intensity, and security threats from NNEMP devices becoming an increasing possibility, Data Centers need to be prepared and protected against data loss from EMP sources. ETS-Lindgren offers Data Centers proven, practical solutions that enhance security and reliability.



An ETS-Lindgren EMP Shielded Room



ETS-Lindgren EMP Filters

SALES AND SUPPORT OFFICES

United States–Texas

Cedar Park, TX
+1.512.531.6400 Phone
+1.512.531.6500 Fax
info@ets-lindgren.com

United States–Illinois

Wood Dale, IL
+1.630.307.7200 Phone
+1.630.307.7571 Fax
info@ets-lindgren.com

United States–Wisconsin

Minocqua, WI
+1.715.356.2022 Phone
+1.715.356.2023 Fax
info@ets-lindgren.com

Brazil

São Paulo
+55(11)3123.9700 Phone
+55(11)3123-9078 Fax
info@ets-lindgren.com

Germany

Taufkirchen
+49.89.614171.0 Phone
+49.89.614171.71 Fax
germany@ets-lindgren.com

Finland

Eura
+358.2.8383.300 Phone
+358.2.8651.233 Fax
euinfo@ets-lindgren.com

United Kingdom

Stevenage, Hertfordshire
+44.1438.730.700 Phone
+44.1438.730.751 Fax
uk@ets-lindgren.com

France

Stains
+33.1.49.40.19.30 Phone
+33.1.49.40.19.31 Fax
france@ets-lindgren.com

India

Bangalore
+91.80.4341.8600 Phone
+91.80.4341.8611 Fax
indiainfo@ets-lindgren.com

Japan

Tokyo
+81.3.3813.7100 Phone
+81.3.3813.8068 Fax
japan@ets-lindgren.com

Singapore

Singapore
+65.6391.0912 Phone
+65.6298.9509 Fax
singapore@ets-lindgren.com

China

Beijing
+86(10)8273.0877 Phone
+86(10)8273.0880 Fax
china@ets-lindgren.com

Taiwan

Taipei
+886.2.27023389 Phone
+886.2.27023055 Fax
taiwan@ets-lindgren.com

Enabling Your Success™



www.ets-lindgren.com

Corporate Headquarters • 1301 Arrow Point Drive • Cedar Park, Texas 78613 • USA
Phone +1.512.531.6400 • Fax +1.512.531.6500 • info@ets-lindgren.com