



CORROSION'S IMPACT ON THE ELECTRONICS INDUSTRY

Corrosion is a global problem that affects every industry, but it is particularly devastating to electronics.

[Read more about the impact of corrosion on electronic products.](#)

What can corrosion cost an industry overall?

An FHWA report estimated the total cost of motor vehicle corrosion at

\$23.4 billion annually.



The cost of corrosion comes out to an average of **\$117 per vehicle** every year.



Environmental parameters that cause corrosion include humidity, aggressive ions and gases, temperature, and dust particles.

Corrosion is the deterioration of a material or its properties due to a reaction with a chemical environment. Although it is an inevitable natural process, corrosion-resistance measures can be taken to prevent failure.



What about Electronics?

\$97B PER YEAR

IDC estimated that the annual cost of liquid damage related to smartphones is upwards of **\$97B** per year, much of this damaged can be attributed to corrosion.

\$1.36B PER YEAR

Corrosion cost the oil and gas exploration and production sector **\$1.36B**, according to a 2002 study from NACE. But electronic usage in the oil and gas sector has exponentially increased since then.

\$375-\$875B

Corrosion prevention best practices could save 15-35% of the global damage costs, or **\$374B to \$875B**, and that doesn't include corrosion costs in the electronics industry, says NACE.

Corrosion is more of an issue than ever before,

because electronics are used under highly variable environmental parameters (humid environments, dust, temperature, liquid exposure) and experience a variety of environments due to their widespread use.



Corrosion failures can be **difficult to diagnose** and cause **unexpected production loss** due to downtime.

Corrosion causes failure, and replacing electronics is a costly task.

As **demand for electronics increases**, so does the need for corrosion protection.



Watch the Webinar To Learn Proven Methods for Protection From Corrosive Environments

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