



RCRA Corrective Action

Cleanup + Productive Use

Economic Profile

Gates Rubber Co.

Boone, Iowa

BEFORE

Rubber and plastics manufacturer

AFTER



Electromagnetic
Technology
Manufacturer

CLEANUP OVERSEEN BY EPA

The Gates Rubber Company operated at this site in Boone, Iowa, from 1977 until the early 2000s, manufacturing hydraulic hoses. A leaking above-ground storage tank at the facility released contaminants into the soil and groundwater.

With oversight from EPA's RCRA Corrective Action program, Gates Rubber Co. investigated the contamination and cleaned up the site. Construction of cleanup technologies was completed in 2015 and long-term remediation of contaminants continues. Land and groundwater use controls are in place to ensure safe reuse of the property. With the site's environmental concerns addressed, a new business purchased the property in 2018.

Today, the on-site manufacturer generates \$162,000 in sales per year and innovates the domestic electromagnetic technology market with new research and development.



2

EMPLOYEES



\$162,000

ANNUAL SALES



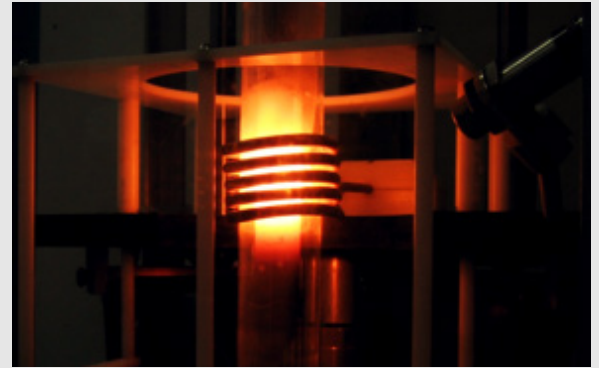


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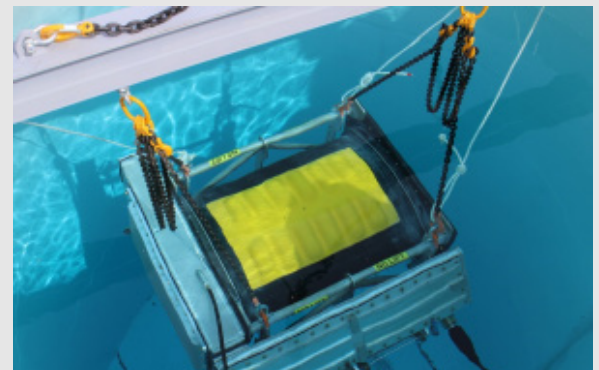
The cleanup enabled redevelopment at the site: after acquiring the former Gates Rubber Co. property, the startup electromagnetic product manufacturer TdVib began operating at the site. TdVib creates devices that convert electrical energy into mechanical energy for industrial processes. The company specializes in the manufacturing of Terfenol-D and Galfenol, and is one of the only producers of these magnetoelastic materials in the U.S.

In 2020, TdVib received a Small Business Technology Transfer grant of \$200,000 from the Department of Energy's Office of Energy Efficiency to conduct research on the reclamation of rare earth metals from e-waste. Research and development done by TdVib could provide new solutions to improve energy and ecological efficiency in production of rare earth metal products.

The successful cleanup at the Gates Rubber Co. site has allowed for its safe redevelopment. The site's startup manufacturing business boosts the local economy while developing cutting-edge technology.



TdVib is one of the businesses launched with the help of Iowa State University's Startup Factory. The Startup Factory helps students, staff and community members create technology-based platform businesses.



TdVib's engineering consulting services have included technologies for industrial energy harvesting.

THE REDEVELOPMENT OF THE GATES RUBBER CO. SITE HAS ALLOWED TDVIB LLC TO MOVE INTO AND MAKE USE OF AN INDUSTRIAL PROPERTY THAT WOULD OTHERWISE HAVE REMAINED AN ABANDONED INDUSTRIAL SITE.

Dan Bina, CEO, TdVib

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