

SUCCESS CASE 24.2026

NETZteile 3D Printing

ON-DEMAND 3D PRINTING OF
DISCONTINUED GRID SPARE
PARTS



INNOVATIVE 3D PRINTING FOR GRID SPARE PARTS

NETZteile 3D Printing is a Netze BW innovation project focused on reproducing discontinued spare parts for distribution grid assets using additive manufacturing. The project helps extend the service life of existing equipment, shorten procurement times and avoid the replacement of otherwise fully functional assets.

THE CHALLENGE

Many spare parts for older grid assets are no longer available. This creates long lead times, costly individual production and the premature replacement of otherwise functional equipment.

THE SOLUTION

Netze BW identifies, evaluates and reproduces selected spare parts using suitable 3D printing technologies and materials.

MAIN ACHIEVEMENTS

Initial use cases have been successfully developed and tested, including protective covers, inspection components and specialised tools. The project supports faster repairs, lower costs and extended asset lifetimes.

KEY SUCCESS FACTORS

Close cooperation with field operations, clear technical requirements, appropriate material selection, practical testing and the central documentation of validated designs and experience.

WAY FORWARD

Further use cases will be identified, internal 3D printing expertise will be expanded and validated 3D models will be made available across Netze BW.