



VoltGrid

GEOSPATIAL INTELLIGENCE FOR THE ELECTRIC GRID · TECH MAVEN
GEOSPATIAL

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Sales: 775-573-0164 · Support: 775-573-0253
Plantation, FL USA · Windows 10/11 ·
v1.6.0

Your desktop is now a **grid intelligence workstation.**

VoltGrid is a desktop GIS, CAD, and BIM 3D digital twin solution for electric utilities — transmission corridors, substation twins, vegetation & ROW monitoring, storm damage assessment, and crew coordination on one offline-capable workstation. Works operationally with **GRID State**, Tech Maven Geospatial's electric utility management solution. No cloud. No enterprise server farm. No infrastructure tax.

⚡ 100% Offline · Air-Gap & OT Ready

🌐 Embedded Local Server & 3D Engine

🔧 30+ Formats · 12+ Protocols

🛡️ ArcGIS & PLS-CADD Interoperability



◆ ONE WORKSTATION · EVERY CAPABILITY

⚡ TRANSMISSION & ANALYTICS

Network Trace + Isolation Preview NEW

As-built vs Design QA NEW

ROW Encroachment NEW

Data Charts (Map Linked) NEW

DER Hosting Capacity

OMS / SCADA Overlay

Corridor Veg & Storm Change

PLS-CADD Import

EAM / CMMS (Maximo · Cityworks)

🌐 3D DIGITAL TWIN & FORMATS

Offline Tile Packs (AOI→MBTiles) NEW

CAD Modernization (DWG/DXF/DGN)

3D / Z GPKG Editing

LiDAR & Point Clouds (LAS/COPC)

IFC / BIM Import

LoD2.2 Roofer Reconstruction

I3S / SLPK · 3D Tiles · Splats

Desktop-as-a-Server

🔊 REAL-TIME, IMAGERY & ENTERPRISE

Drone FMV + AI Detection

SAM2 Imagery Segmentation

Magic Wand Digitizing

SAR / InSAR · Sentinel Feeds

12 DB Connectors · Microsoft Fabric

SharePoint Lists (Read/Write)

TAK / ATAK Crew Tracking

Offline Routing (A*) · GeoChat

◆ BUILT FOR

Utility GIS · T&D Engineering · Vegetation Mgmt · Storm & Emergency Ops · Field Ops ·
Substation & Asset Teams · Inspections · Utility Consultants

◆ WHY UTILITIES CHOOSE VOLTGRID

- ▶ **Ops overlays that land on the corridor.** DER headroom, OMS outages, SCADA tags, Maximo/Cityworks work orders, and before/after vegetation or storm change — beside the same PLS-CADD network.
- ▶ **The network model works for you.** Trace feeders and preview isolations, grade as-builts against design, and sweep the ROW for encroachments — findings land in one unified queue.
- ▶ **GIS, CAD, and BIM finally converge.** As-built drawings, IFC models, PLS-CADD structures, and asset GIS on one map — a living, authoritative 3D digital twin of the electric grid.
- ▶ **The desktop is the server.** One click shares corridor and damage data LAN-wide over OGC, Esri REST, I3S, and STAC — zero cloud subscription, zero server farm tax.
- ▶ **Works when the storm takes the network down.** Fully air-gapped and OT capable; crews, EOCs, and staging yards keep the complete operational picture with no internet backhaul.
- ▶ **Pairs with GRID State.** GRID State manages the utility's assets and business operations; VoltGrid gives them living geospatial 3D twin context in the office and the field.
- ▶ **Every format the utility already owns.** 30+ native GIS/CAD/BIM file formats plus enterprise databases — even SharePoint inspection lists — served as open standards.

See it on your grid.

Pilot programs for qualified utilities — live demo, LAN server in minutes, ROI modeled on your territory.

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