



# Hexagon's Advanced GIS Technology Manages Entire Network on a Single Platform

## Snohomish County Public Utility District

*Washington, United States*

Snohomish County Public Utility District (SnoPUD) is the second-largest publicly owned utility in the state of Washington, serving more than 348,000 electric and 20,000 water customers. SnoPUD engaged in a smart grid project partially sponsored by the U.S. federal government to deploy an advanced distribution management system (ADMS).

Accurate, timely network data is critical to the success of any ADMS deployment. To feed this data, SnoPUD required an enterprise system that featured a single system of record of the network at its core to provide information to all departments and systems – not only the ADMS, but also SAP and others.

SnoPUD needed this system to be robust and scalable. It also needed the system to have an open database, support near real-time network updates, provide reliable and accurate network connectivity at the database, and allow for data versioning.

SnoPUD adopted advanced utility GIS technology from Hexagon's Safety & Infrastructure division for its extensive capabilities and life-cycle support for grid data. The solution has modeled networks with more than 44 million access points without performance loss.

## World-Class Standard for Network Model Management

Hexagon's technology manages the network infrastructure with all necessary business rules, data validation, and network connectivity at the database level. This architecture is unique in the industry and offers the enterprise solution for network model management that SnoPUD required.

The solution serves as the system of record for work and asset location information, providing source data to SnoPUD's GE ADMS and SAP systems. The ease of integration is due primarily to the system's database-centric architecture, which drives network model management.

Hexagon's solution gave SnoPUD the foundation to centrally maintain and control system interfaces. To maintain data quality and operate more efficiently, SnoPUD uses the solution to merge its as-built network with its as-operated model to make daily corrective measures to its services.

This improvement extended beyond the technology. SnoPUD's employees have gained more confidence in working with the data.

“Once you democratize the system of record – the more eyes you can get on the same piece of information – the better the data quality becomes,” said Marc Rosson, enterprise architect at SnoPUD.



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**Marc Rosson**  
Enterprise Architect  
SnoPUD

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Hexagon's Safety & Infrastructure division provides software for smart and safe cities, improving the performance, efficiency and resilience of vital services.

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