DAIRYLAND POWER COOPERATIVE (DPC)

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Project Specifics

GIS Software/Hardware

- Esri ArcGIS for Desktop Standard (ArcMap, ArcCatalog)
- Esri ArcGIS for Server Advanced (ArcSDE, ArcGIS Server)
- Esri ArcGIS for Windows Mobile
- Esri ArcGIS JavaScript API
- Esri Runtime SDK for Android & Xamarin

Development

- Visual Studio .NET, (C#)
- HTML 5 & JavaScript
- Eclipse (Java), Xamarin Studio

Database Technology

- Esri File & SDE Geodatabase
- Oracle
- SQLite

Operating Systems

- Windows (XP, 7, 10, 2008)
- Windows Mobile
- Android, iOS

Contact

Denny Hoskins

mdh@dairynet.com

608.787.1425

Leveraging DPC's ArcGIS for Server software, NewWaveGeo built a suite of custom applications to easily extend its GIS across the entire organization. The first application was built using the ArcGIS for Windows Mobile SDK to create a configurable and extensible mobile application framework for field data collection. Now, instead of having multiple ArcPad applications, DPC had a single mobile data collection application for use on its GPS handheld devices. The application is configurable using a SQLite database, allowing for in-house staff to quickly customize the application for a particular project. Field technicians are able to collect data and remotely synchronize with DPC's enterprise geodatabase throughout the day, rather than having to bring their devices into the GIS unit for updating.

Next, our team built a HTML5/JavaScript application using the ArcGIS JavaScript API, allowing DPC to again leverage ArcGIS for Server and share its data across the entire organization. The application includes custom searches, a table of contents, measuring and drawing tools, and the ability to print maps.

Lastly, NewWaveGeo built native applications using the ArcGIS Runtime SDK's for Android & Xamarin for use on Android, iOS and Windows smartphones and tablets. The customizable application extends the use of mobile GIS for DPC by allowing for viewing, searching and editing of the GIS data on the tablets and smartphones. Using this framework, DPC can quickly configure the application for different types of tasks, such as inspections, asset maintenance and vegetation management.

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Chad Yoder, President
561.354.9021
chad@nw-gis.com
www.nw-gis.com