Contents

Zarvona Energy Dashboard - Getting Started Guide

What is This?

The Zarvona Energy Dashboard is a web-based application that tracks and visualizes your oil well operations. It provides real-time insights into production, well performance, and equipment metrics across all your well sites.

Key Features

- **Production Tracking** - Monitor daily oil, water, and gas production
- **Well Performance** - View trends, efficiency metrics, and pump performance

- **Chemical Management** - Track chemical programs and treatment schedules
- **Failure History** - Document and review equipment failures
- **Action Items** - Manage maintenance tasks and operations
- **Aggregate Analytics** - Compare performance across wells and batteries
- **Data Import** - Upload Excel gauge sheets to automatically populate data

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Access Information

Dashboard Login

URL: https://zarvona-energy-dashboard.web.app

Login Credentials: - Username: `user@zarvonaenergy.com` - Password: `wtxnorth`

Google Cloud Console (Project Management)

Owner Account: `jlmanzo708@gmail.com`

Firebase Console: https://console.firebase.google.com/project/zarvona-energy-a85ce

Google Cloud Console: https://console.cloud.google.com/home/dashboard?project=zarvona-energy-a85ce

Billing Dashboard: https://console.cloud.google.com/billing?project=zarvona-energy-a85ce

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Getting Started

Step 1: Log In

1. Go to: https://zarvona-energy-dashboard.web.app
2. Enter the credentials:
   - Email: `user@zarvonaenergy.com`
   - Password: `wtxnorth`
3. Click "Sign In"

Step 2: Upload Gauge Sheets

The dashboard requires Excel gauge sheet files to populate production data.

1. Click the **"Getting Started"** tab (or **"Upload"** icon)
2. Upload all required Excel files at once by:
   - Clicking "Upload All Gauge Sheets" and selecting files
   - Or dragging and dropping all files into the upload area
3. Wait for processing to complete (usually 30-60 seconds)

Required Files: - Cowden Gauge Sheet1.xlsx - Big Max Gauge Sheet.xlsx - Big Max 1H Gauge Sheet.xlsx - South Andrews Gauge Sheet.xlsm - Polaris Gauge Sheet.xlsx - Shusa Gauge Sheet.xlsx - Mw-Wemac-Sabrina-Berkley.xlsx - 1-30 Unit 1H Gauge Sheet.xlsx - ULS 3-5H Gauge Sheet.xlsx - Master Chemical Sheet.xlsx - West Texas Fluid Level Sheet.xlsx

Step 3: View Your Data

Once uploaded, the dashboard will display:

Operations Dashboard: - Overview of all wells - Total daily production (oil, water, gas) - Top producing wells - Action items requiring attention

Individual Well Views: - Production history and trends - Well test data - Pressure readings - Pump efficiency metrics - Chemical programs - Failure history

Aggregate Views: - Oil, water, and gas production charts - Cross-well comparisons - Battery-level analytics

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Basic Navigation

Main Menu (Left Sidebar)

1. **Operations Dashboard** - Overview of all operations
2. **Gauge Sheet** - Upload and manage individual gauge sheets
3. **Well View** - Detailed view of individual wells
4. **Battery View** - Performance by battery
5. **Oil Production** - Aggregate oil production charts
6. **Water Production** - Aggregate water production charts
7. **Gas Production** - Aggregate gas production charts
8. **Master Chemical Sheet** - Chemical programs for all wells
9. **Fluid Levels** - Downhole fluid level tracking
10. **Aries** - Well production forecasts and comparisons

Switching Between Wells

- Use the **well selector dropdown** in the header
- Or click on a well name from the Operations Dashboard

Date Ranges

Most charts and tables allow you to filter by date: - Click the "From" and "To" date fields - Select your desired date range - Click "Reset" to return to default view

Exporting Data

- Click **"Export CSV"** button on any table
- Opens/downloads a CSV file you can use in Excel

Common Tasks

Re-Upload Updated Gauge Sheets

1. Go to **"Operations Dashboard"**
2. Click **"Re-upload Sheets"** button
3. Select and upload your updated Excel files
4. Data will automatically update

Add Action Items

1. Navigate to a specific well view
2. Scroll to **"Action Items"** section
3. Click **"Add Action Item"**
4. Enter description and priority
5. Click "Save"

Track Failures

1. Navigate to a specific well view
2. Scroll to **"Failure History"** section
3. Click **"Add Failure"** or the + icon
4. Enter failure date, upload Excel file, add notes
5. Click "Add Entry"

Edit Chemical Programs

1. Go to **"Master Chemical Sheet"** view
2. Click **"Edit"** button
3. Click any cell to edit values
4. Changes are highlighted in yellow
5. Click **"Save All Changes"** when done

View Production Trends

1. Go to **"Oil Production"**, **"Water Production"**, or **"Gas Production"**
2. Use date range to filter data
3. Aggregate by Day, Week, or Month
4. Filter specific batteries using the checkboxes
5. Hover over chart points to see exact values

Important Information

Data Updates

- Data is pulled from uploaded Excel gauge sheets
- Re-upload sheets weekly or as needed to keep data current
- Manual edits (action items, notes) are preserved between uploads

User Management

Currently configured with a single shared login. If you need individual user accounts: - Contact developer (Patrick) to set up additional users - Individual accounts can be created with @zarvonaenergy.com email addresses

Browser Compatibility

Works best with: - Google Chrome (recommended) - Microsoft Edge - Firefox - Safari

Mobile Access

The dashboard is accessible on mobile devices but is optimized for desktop viewing.

Billing & Costs

Current Status

- You own the Firebase project
- Your billing account pays for all charges
- Billing account: linked to `jlmanzo708@gmail.com`
- Plan: Blaze (pay-as-you-go)

Expected Costs

Monthly costs typically range from **$5-50** depending on: - Number of gauge sheets uploaded - Number of active users - Data storage size - Number of database operations

Monitor Costs

View current charges: https://console.cloud.google.com/billing?project=zarvona-energy-a85ce

Set Budget Alerts (Recommended)

1. Go to: https://console.cloud.google.com/billing/budgets?project=zarvona-energy-a85ce
2. Click "Create Budget"
3. Set monthly budget (e.g., $50)
4. Add email alerts at 50%, 90%, 100%
5. You'll receive notifications if costs exceed thresholds

Support & Troubleshooting

Technical Issues

Contact Developer: - Name: Patrick Brown - Email: patrickbrownai@gmail.com

Common Issues: - **Can't log in:** Verify email/password, check for typos - **Upload fails:** Ensure files are in Excel format (.xlsx, .xls) - **Missing data:** Verify correct files were uploaded - **Charts not loading:** Try refreshing the page or clearing browser cache

Billing Questions

Manage billing directly in Google Cloud Console: - https://console.cloud.google.com/billing?project=zarvona-energy-a85ce - Or contact Google Cloud Support

Password Reset

Currently using a shared account. To reset password: - Click "Forgot password?" on login screen - Or contact developer for assistance

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Security Best Practices

1. **Don't share login credentials** outside your organization
2. **Log out** when using shared computers
3. **Regular backups** - Export important data periodically
4. **Monitor access** - Check Firebase Console for unusual activity
5. **Budget alerts** - Set up billing alerts to catch unexpected usage

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Next Steps

1. Log in and familiarize yourself with the interface
2. Upload your current gauge sheets
3. Set up budget alerts in Google Cloud Console
4. Bookmark the dashboard URL for easy access
5. Contact Patrick if you need any customizations or have questions

Quick Reference

Item	Details
Dashboard URL	https://zarvona-energy-dashboard.web.app
Username	user@zarvonaenergy.com
Password	wtxnorth
Owner Account	jlmanzo708@gmail.com
Project ID	zarvona-energy-a85ce
Developer	Patrick Brown (patrickbrownai@gmail.com)
Billing Console	https://console.cloud.google.com/billing?project=zarvona-energy-a85ce

Additional Resources

Shutdown Instructions: See separate document (SHUTDOWN-INSTRUCTIONS.pdf) for how to shut down the project when no longer needed.

Firebase Documentation: https://firebase.google.com/docs

Google Cloud Support: https://cloud.google.com/support

Welcome to the Zarvona Energy Dashboard! If you have any questions or need assistance, don't hesitate to reach out.

Patrick Brown
patrickbrownai@gmail.com