

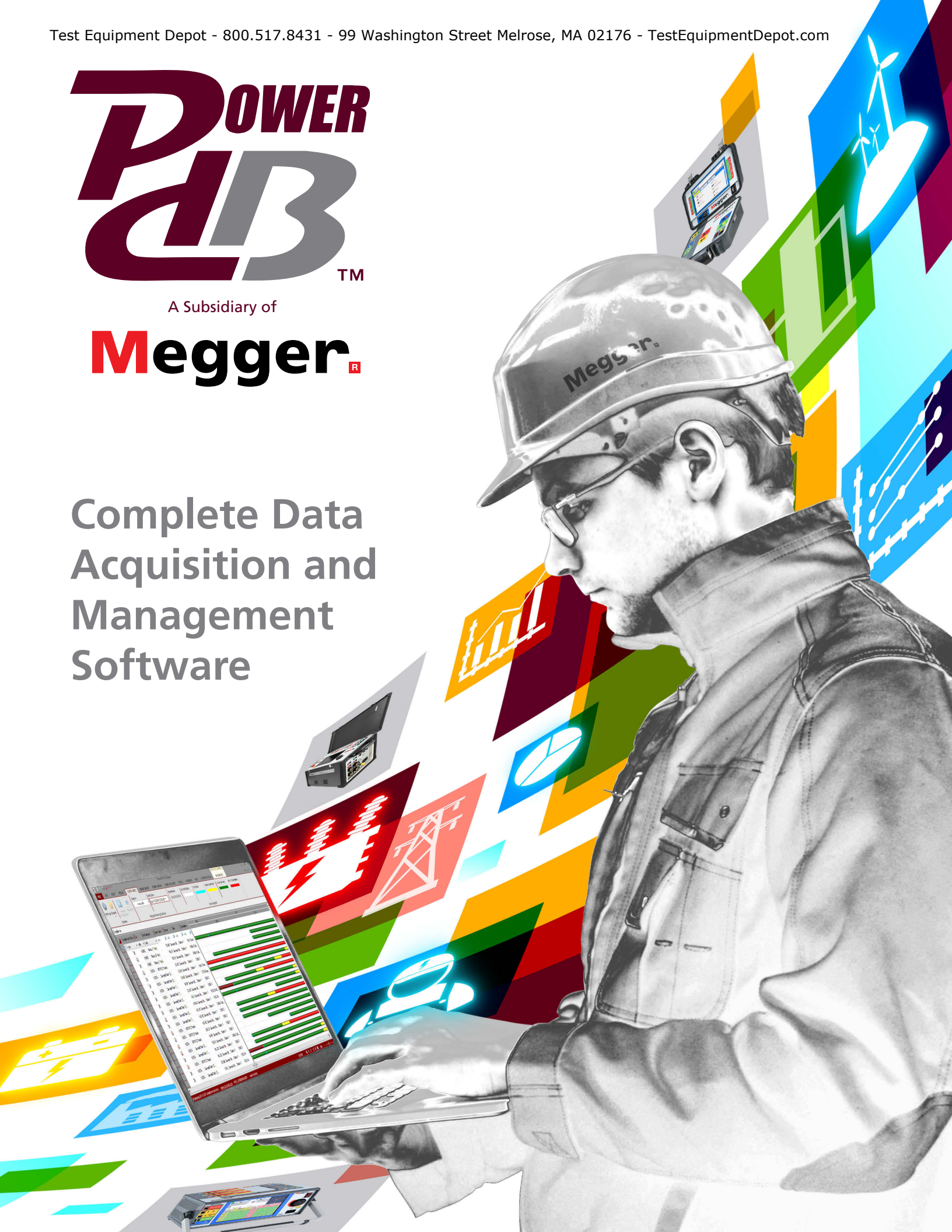
POWER PDB

TM

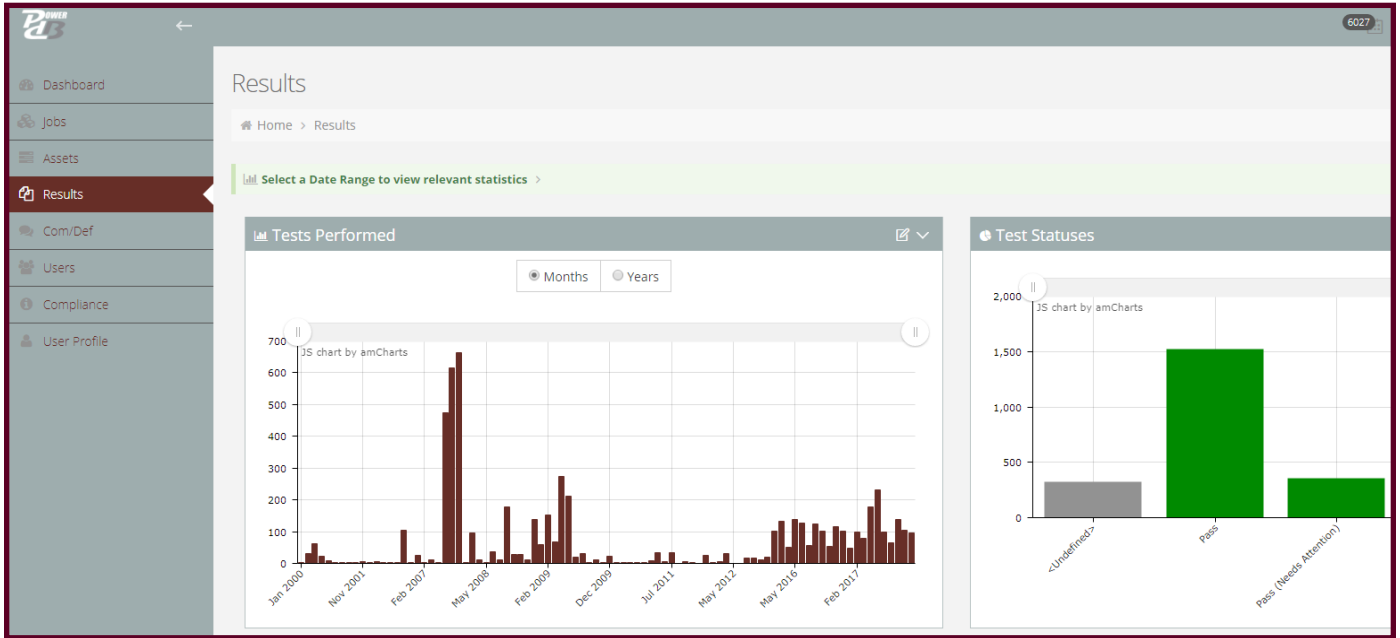
A Subsidiary of

Megger

Complete Data Acquisition and Management Software



PowerDB is the intuitive and robust software interface that simplifies the acquisition and management of your test data, giving you control of your Asset Management Process.



PowerDB is the complete testing and maintenance solution for your test record management and compliance reporting in the following areas:

Electrical

Transformers
Battery Banks
Relays
Breakers
Cables
Switchgear
Infrared Surveys
Insulating Fluids
Grounding

Mechanical

Motors
Vibration
Instrumentation

Visual & Environmental

Equipment and
Site Inspection Data

Industries Serviced

Utilities
Manufacturing
Industrials
Military
Health Care
Govt. Facilities
Universities
Agricultural
Renewable Energies
Water Treatment Facilities
Transportation
Maritime

Process Documentation

Job Safety Briefings
Job Assignments
Job Bid Documents
Unresolved Maintenance
Equipment Calibration Data

PowerDB can also be adapted to other operational areas in your facility with the simple addition of data collection forms utilizing the built in forms editor tool, providing a solution for more than one problem, including:

HVAC

Building Maintenance

Testing to meet the needs of your company to comply with the standards of your industry including NFPA/NETA/IEEE/ANSI/NERC/FERC/NMAC

Emergency power systems

Safety Equipment

PowerDB's ability to collect information across multiple areas means you can use a single software and interface to collect all of your important maintenance data.

The ability to consistently and accurately collect test data and track the condition of your assets to your specified health index, over time in a simple and comprehensive way, can be the difference in avoiding a catastrophic failure. This Asset Maintenance Process must be organized in a clear, consistent way, using easy to adopt and adapt tools. PowerDB, a subsidiary of Megger, is designed to manage this process.

Megger's extensive history in the electrical testing and maintenance industry and the knowledge gained by it is the driving force behind PowerDB's vast functionality. With PowerDB, you can directly interface with most Megger Test Instruments and have test data automatically added to test forms. The ability to pair PowerDB with Megger Test Instruments is a benefit that will continue to expand as all future Megger products will interface data into PowerDB forms.

PowerDB can also interface with non-Megger test units and transfer test data and oil lab results into PowerDB from other software solutions and their databases. We understand your testing needs and requirements because of our vast experience, and have developed PowerDB to be flexible enough to meet those needs.

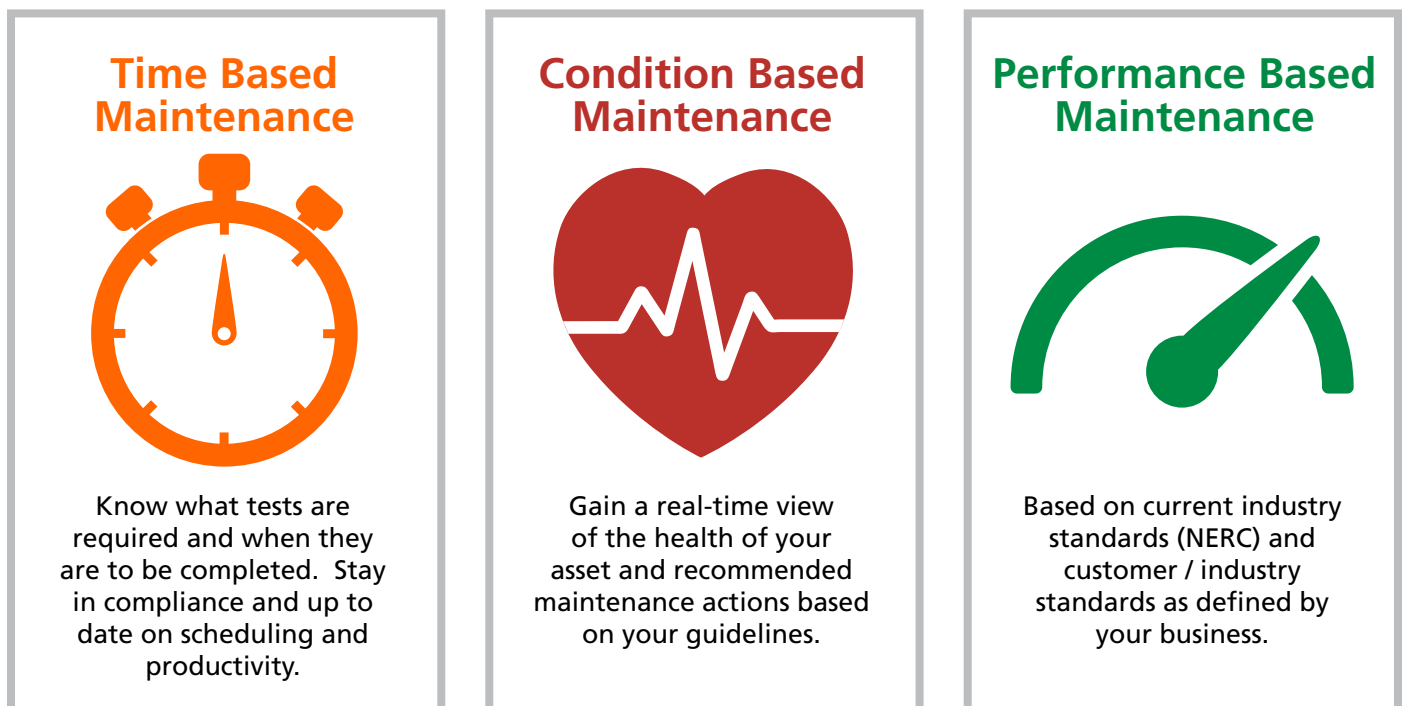
The Asset Maintenance Process



Managing all components of the Asset Maintenance Process at any given time can be difficult without the proper toolset at your fingertips. PowerDB's robust feature set makes organizing and controlling your Asset Maintenance Process simple and effective.

The Three Pillars of Asset Maintenance

PowerDB delivers a comprehensive set of tools and interfaces to manage the Three Pillars of Asset Maintenance, the backbone of any comprehensive maintenance program.



Manage Your Maintenance Plan

Use PowerDB to set up and track scheduled testing, and to monitor the conditions of your assets for a real time view of your system per NERC/NETA/IEEE Standards or your organization specific requirements.

Assign work orders and track testing productivity, locate test records and manage repair work.

Receive alerts based on any triggers you specify to know the status of assets, work orders, or any other variables that impact your business. Determine pre-set alerts to ensure your testing is on schedule and focused on your critical assets.

Data Acquisition and Storage

PowerDB simplifies the process of data collection with over 380 test forms that have been developed since 2002 to collect acceptance, maintenance and inspection data. Forms can be tailored to your needs, and new forms can be built. Collect field data via test instrument interface, data imports or manual entry. When you are testing with most Megger units, tests can be run directly from the PowerDB forms and have data added automatically, removing the possibility of human error when inputting test results.

Set up your data collection into regions, divisions, or what ever is best for your business. Pair assets with your CMMS system and with test forms and preload your assets for increased productivity.

You can also further simplify your testing by using our App for iPhone and Android devices. Log in from the field, and collect data related to routine inspections of your assets and the conditions of your facilities.

Simplified Data Management

Adding test information to your database is simple, whether you are storing data on your server, or on the cloud. Data can be collected via laptop or via apps on your smartphone. More importantly, **you own your data**, as opposed to receiving PDF reports of test results. As the owner of your data, this provides the ability to trend, track and analyze your data to make informed decisions regarding your assets.

Control what information is viewable within the database to contractors and internal employees. Provide customized instructions based on device tested from your database to manage testing procedures.

Collect data whether you are on-line or not. Whether you are using outside contractor services or an internal team of technicians, control the forms and tests run across all contractors and teams to certify consistency and trending ability across all devices tested.

Your Data Put to Use

Making use of your data is accomplished through our Compliance Scheduler and Dashboard User Portals. Data is mined and collected in easy-to-use interfaces that can be customized to display the information that is most valuable to you, from visual data trending, work order tracking, and asset location to the use of powerful filtering options to retrieve the specific data you need.

Powerful results reporting allows for paginated reports, automatically generated cover letters and summary sections. Reports can be shared via PDF, email or can be reviewed in the online Dashboard. You have the ability to control and customize displayed report content and adjust the layout of the reports, as designated by the end user.

Expedite report generation to invoice jobs faster and increase cash flow and utilization rates.

POWER
PRBTM



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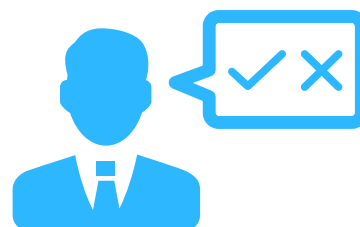


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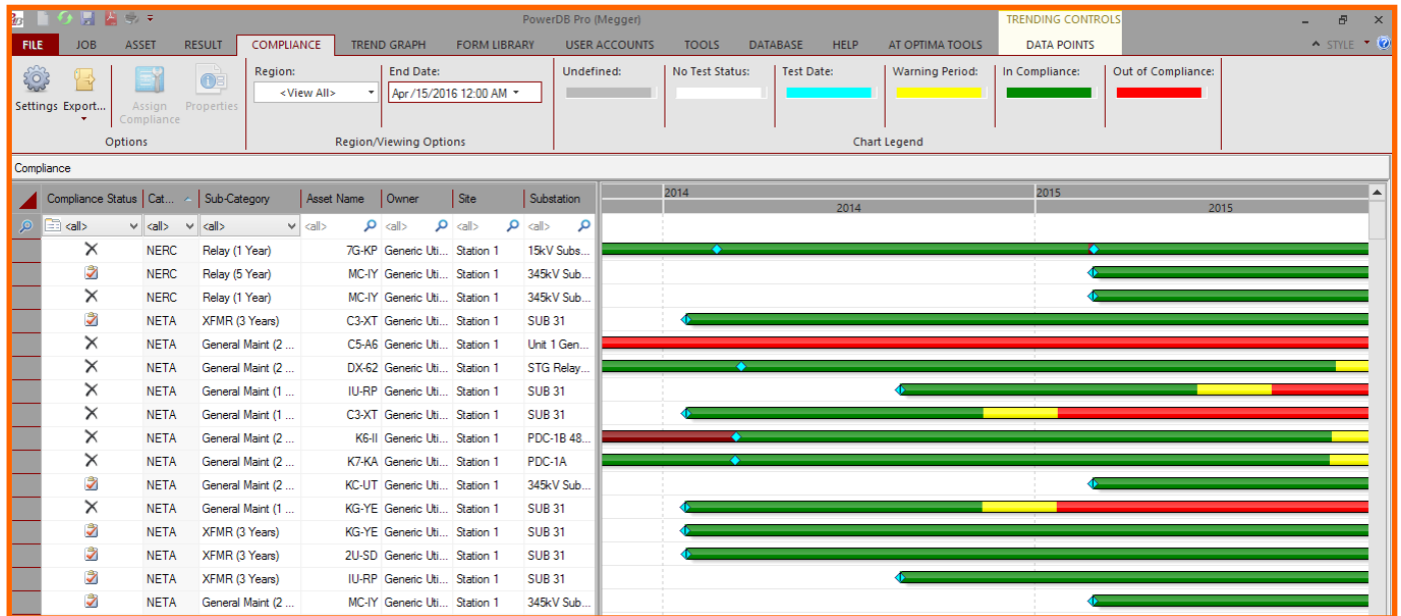


Manage Your Maintenance Plan



The Compliance Scheduler portal allows you to keep track and schedule current work orders, timelines and past due testing. The easy to navigate and intuitive user portal can be customized to display the information that is most important to you. This real-time and flexible view of your maintenance plan implementation can give a 30,000 ft view, or a detailed analysis of your current situation.

Compliance Scheduler Portal



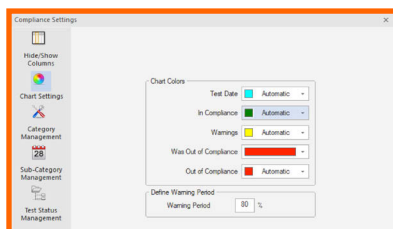
The PowerDB Compliance Scheduler allows you to focus on your priorities by providing a quick visual overview to easily track compliance status and maintain necessary maintenance schedules. The ability to assign risk levels allows you to focus your maintenance on assets that are critical to your operation. Create jobs, work orders, locate test records and manage repair work from the intuitive interface. Manage user access and what can be viewed by individuals, both internal and external to your organization, from compliance officers to managers to technicians.

Contractors

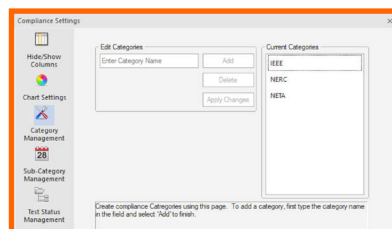
- Assign industry preventative maintenance standards to client assets
- Track preventative maintenance for clients to provide additional value
- Facilitate quotes for unresolved maintenance issues and retest contracts

Utility / Industry

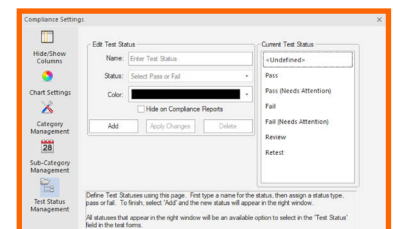
- NERC PRC-005 scheduling and tracking tool
- Color coded calendar view to see current and future compliance status
- Assign NERC and other preventative maintenance criteria to any asset



Configurable compliance calendar chart settings



Add compliance categories or subcategories as desired



Manage the list of available test statuses which can be applied to test results

Be Proactive and Not Reactive

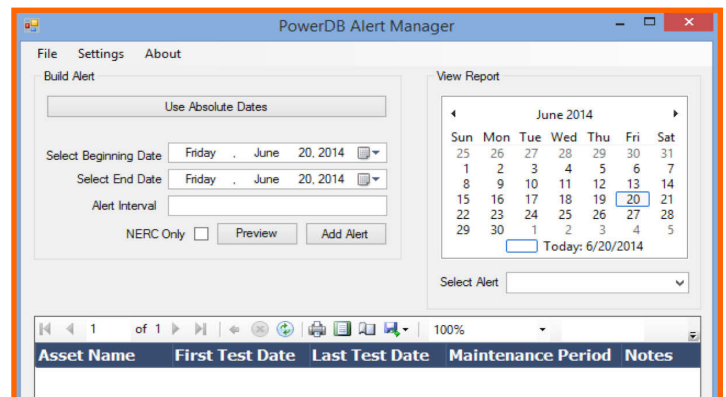
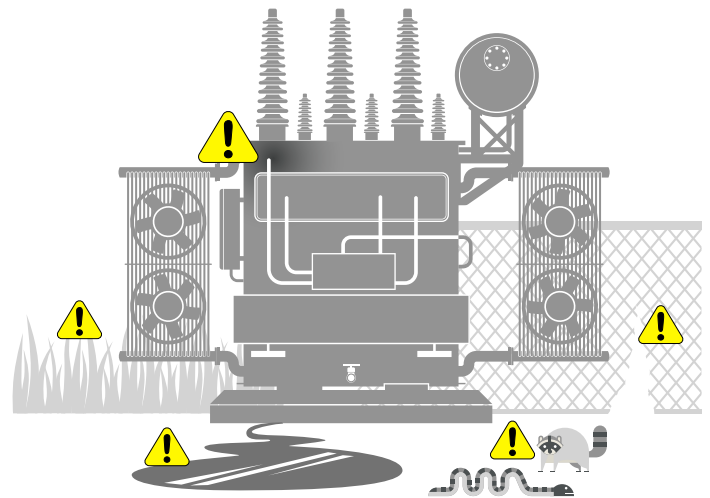
The condition of your assets is a constantly changing variable that if not monitored closely can lead to outages and equipment damage. The faster you know that something is wrong, the faster you can react and avoid a bad situation. PowerDB gives you the power to keep your finger on the pulse of your assets.

Alert Manager

PowerDB Alert Manager automatically sends email or text alerts to notify you of changes to the status of your equipment and assets. Be aware of maintenance or data threshold abnormalities and react accordingly. Data thresholds and limits are set up according to your specifications, allowing you to keep track of a myriad of variables that play key roles in your business.

Alert thresholds can be built on asset condition or status, time-based maintenance scheduling, or data threshold limits. The possibilities are only limited by the data you collect. Receive an alert if a test company hasn't closed out a job, when an asset is due for testing, or even when the grass at a substation is too long. You determine what is important to you, and PowerDB will keep you updated.

For every alert that is sent, a full report is generated and emailed to all individuals on the alert chain. This report includes the date and time of the alert, and all notes associated with the issue at hand for a full picture of the current situation.



The Power of Forms

For over 15 years, Megger has developed a comprehensive library of over 380 test forms to make data collection and testing as simple and effortless as possible. Our forms are the backbone of PowerDB, and we have made them as flexible as possible so that you have the forms you need to improve your business processes.

Feature Rich

PowerDB forms offer a number of features to meet your needs. PowerDB Forms come in both automated and manual entry versions. The capabilities and features that can be provided in the reports is virtually endless, but access to the form editor tool is limited to only authorized personnel to ensure consistency and content.

When testing with most Megger test units, tests can be run directly from the Test Form, which eliminates the chance for human error when inputting test results.

Condition based forms can be developed that pull data from other forms, process that information according to your specifications, and deliver an asset condition, or any other measurement you need.

Help menus within forms can be customized and can include items like connection diagrams, warnings, or anything that is essential during the testing process.

Pairing assets and test forms in your Computerized Maintenance Management System (CMMS) system allows you to pre-load your assets and convert your historical data to PowerDB. This saves time since data does not have to be re-entered and potential errors tied to re-entry are avoided.

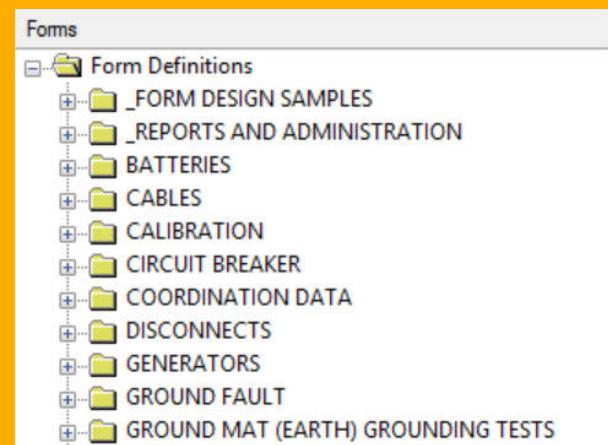
Forms Builder

PowerDB provides the ability to build your own forms, or we can custom build the forms for you. The data that forms can collect is not limited to asset test results, they can store any piece of information you need tracked. This can include charts, graphs, calculations, automated warning and deficiency notes, photos, site inspection data, work production data, etc. You have the power to develop your forms to collect what you need.

The Forms Editor is a simple to use editor, and for more advanced techniques, we offer a 2-day Forms Builder Training Course.

A screenshot of a 'BATTERY TEST' form. The form includes fields for OWNER, ADDRESS, CUSTOMER (Generic Utilities), SUBSTATION (21-BAT), and SITE (Priest Rapids Dam). It also has fields for DATE (12/8/2014), AMBIENT TEMPERATURE, and HUMIDITY. A 'TEST STATUS' field is set to 'Pass'. Below these are sections for 'EQUIPMENT' (STRING, STRING NAME, DUTY CYCLE, NUMBER OF CELLS, etc.) and 'CHARGER' (MANUFACTURER, MODEL, BATTERY FLOAT CURRENT, etc.).

Sample PowerDB Form



Over 380 pre-built forms in our extensive library

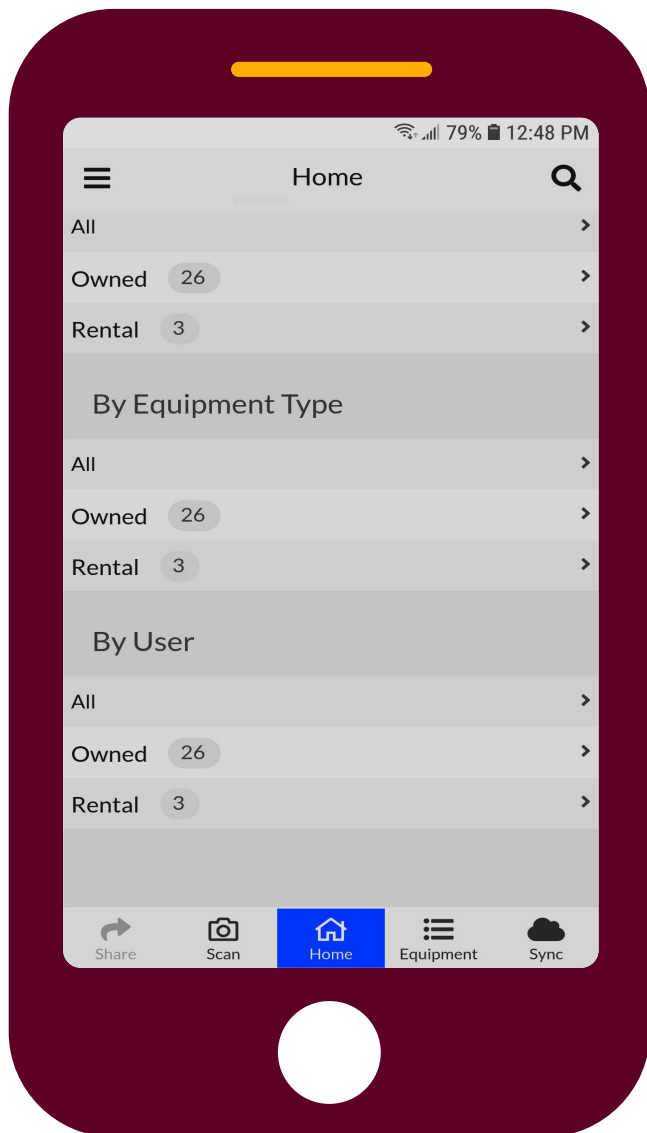
A screenshot of the 'Form Controls' and 'Control Modifications' interface. It shows a toolbar with icons for 'Table...', 'Insert...', 'Text...', 'Numeric', and 'Page...'. Below the toolbar is a 'NAMEPLATE DATA' section with fields for MFR, CLASS, PHASES, SER NO, COOLANT (OIL), REASON, YEAR, TANK TYPE (SEALED), WEIGHT, WINDING MATERIAL (Cu), OIL VOLUME (OIL), OIL TEMP (°C), IMPEDANCE (%), WEATHER, and BIL (KV). There are also diagrams of a bushing and a nameplate table.

Customizable forms interface

The Power of Apps

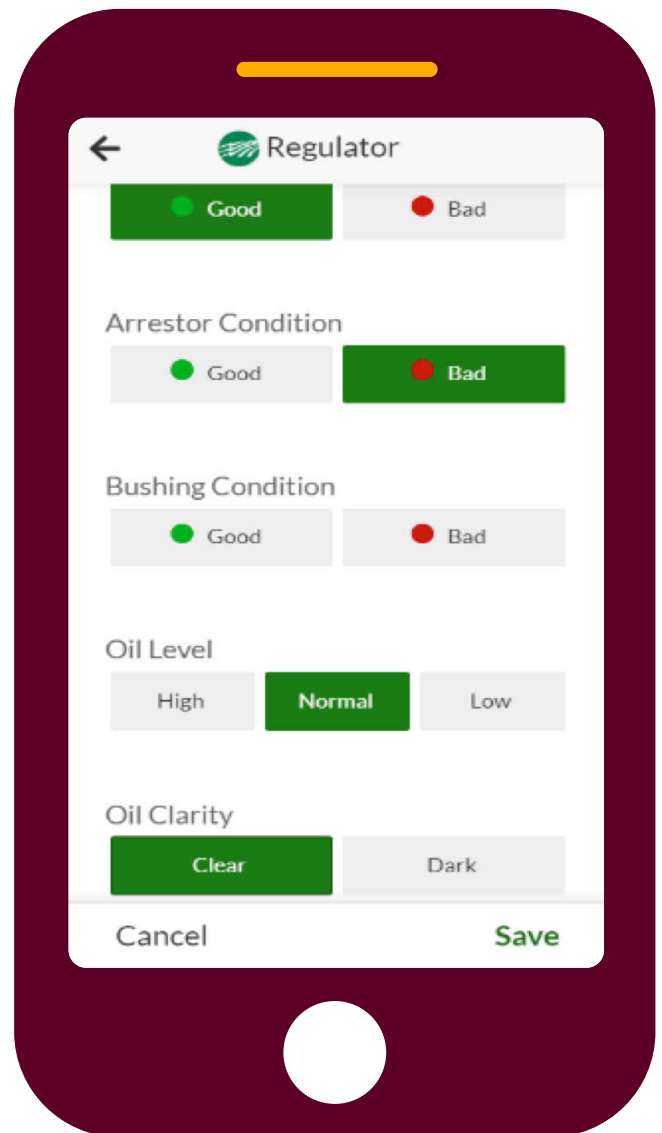
PowerDB Mobile Apps make the collection of data simpler than ever before. Built for use on IOS and Android devices, these apps are tied in to your PowerDB library of forms, pre-built or custom built, and give you another channel to the data you need.

Equipment Tracking



Track portable field equipment with the PowerDB Equipment Tracking App. Use any smart device to scan equipment and update their location and current responsible party. The simple to use interface and tracking update process make capturing this constantly changing information as efficient as possible.

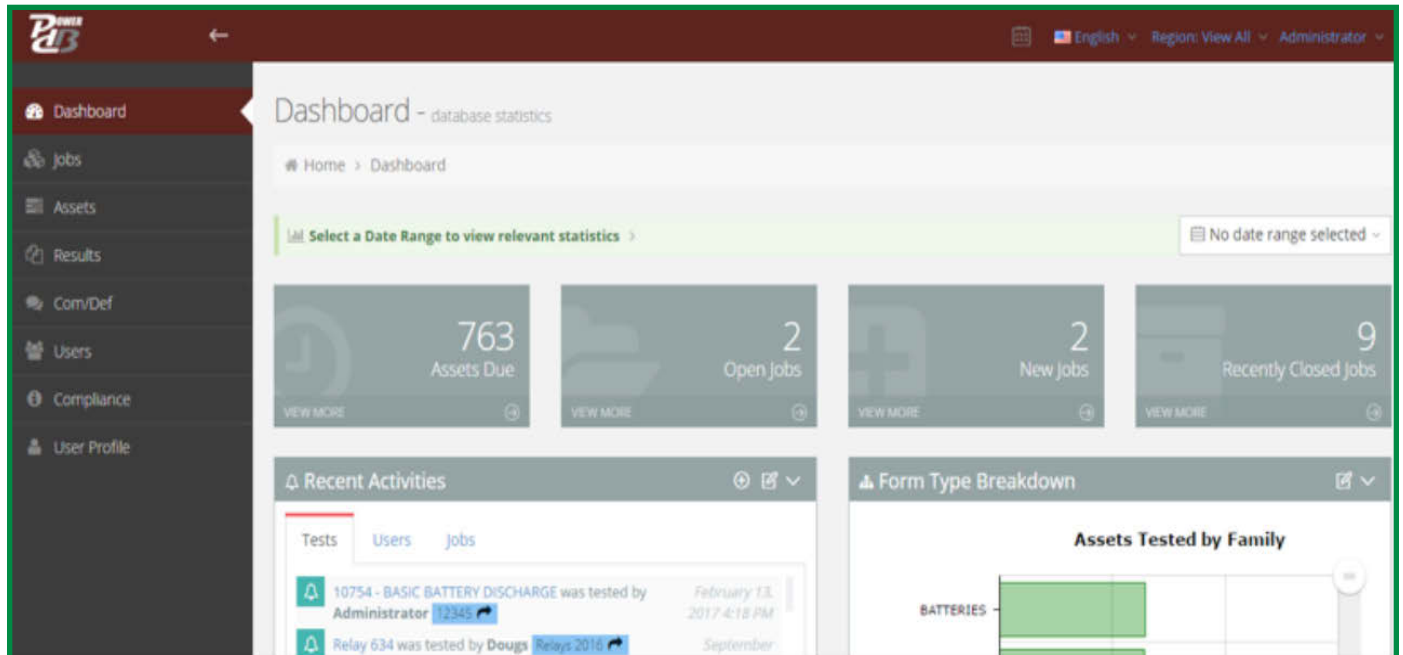
Substation Inspection



The PowerDB Substation Inspection App allows you to define inspection data you need collected and add it to intuitive forms where field personnel can check off inspections, add notes, and add photos to ensure your inspections are being completed. These forms can be tailored to any inspection process.

Powerful Data Management

Dashboard Portal



The PowerDB Dashboard is the web-based portal that is customized to show you the most important data for your business, where you need it, when you need it. The Dashboard can be accessed on any device using a standard browser program, meaning you have access to your information at virtually any time.

The main console includes statistical tools to search, display and print any saved information. Define user types and allow them to see the information that is pertinent to their duties, or restrict any information as needed. Views are potentially only limited by the information you have in your database. Easily view maintenance activities, results, asset health, historical data, trending, asset and test equipment locations, or customized data collected from your particular forms.

Visual data trending

Compliance alerts

Timelines for testing and work orders

Customized layouts

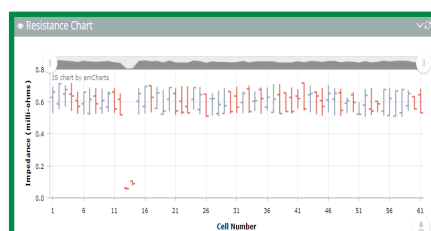
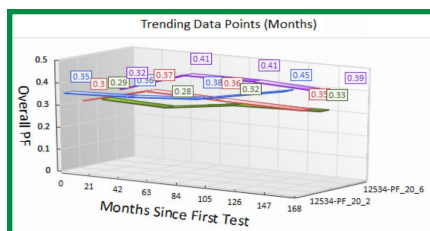
User profiles for data access limits

Asset folders for easy equipment management

Alerts for issues and to-do items

Equipment tracking

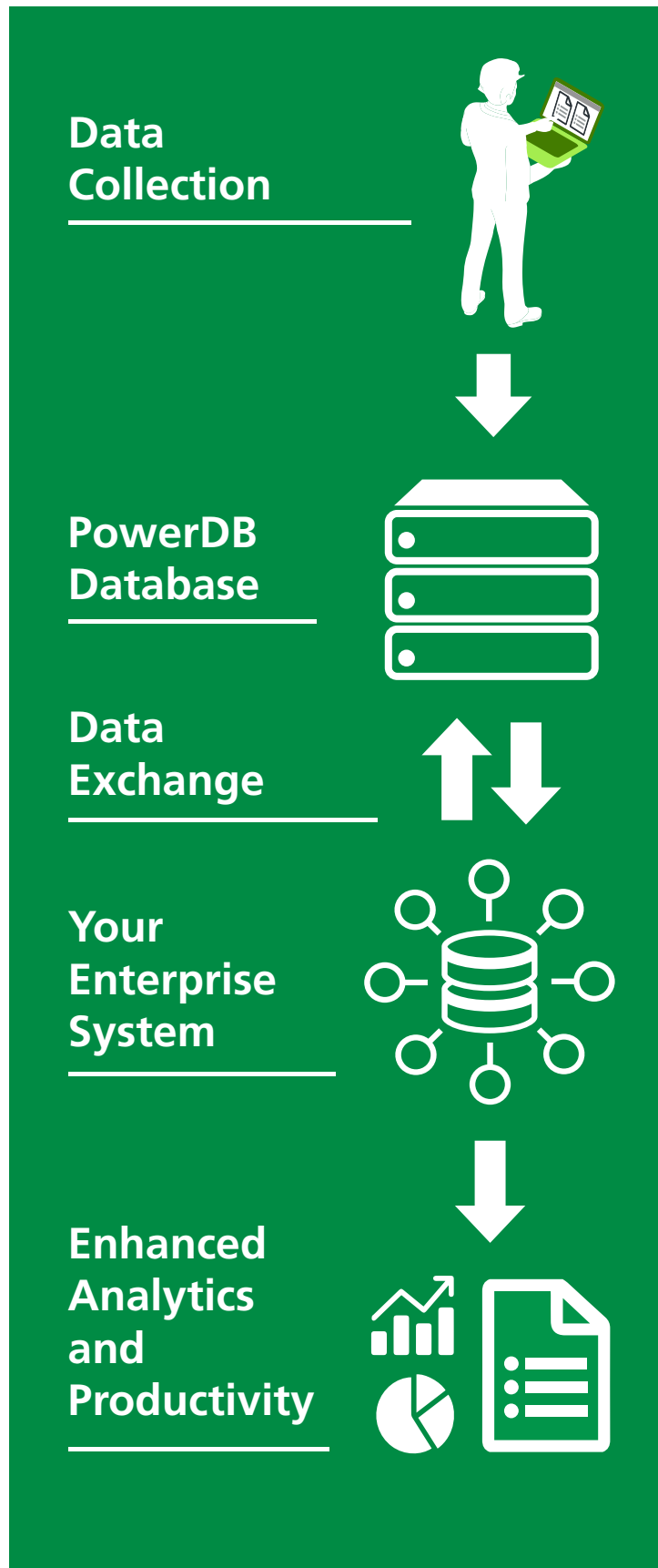
Robust reporting tools



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9345	EDCT	Vanguard	Demo	Microhmeter	jeff	33.2870996...	Details
4555	SMART	Megger	Demo	Other	Mark	33.2870996...	Details
7876	SP	Megger	Demo	High Current...	Mark	33.2870996...	Details
49063	MIT520	Megger	Demo	High Current...	administrator	37.77712242	Details
8765	EDCT	Vanguard	Demo	AC Hipot Test...	Frank	9.85292929...	Details
9076	SMART	Megger	Demo	Microhmeter	Joan	34.3660606...	Details
4231	MA200	Doole	Demo	High Current...	Aaron	33.944996...	Details
7054	MA100	Doole	Demo	Variable-Pow...	Aaron	33.944996...	Details
5422	MA100	Doole	Demo	Other	Isiah	33.628028...	Details

Integrate Your Data

Enterprise Systems Integration



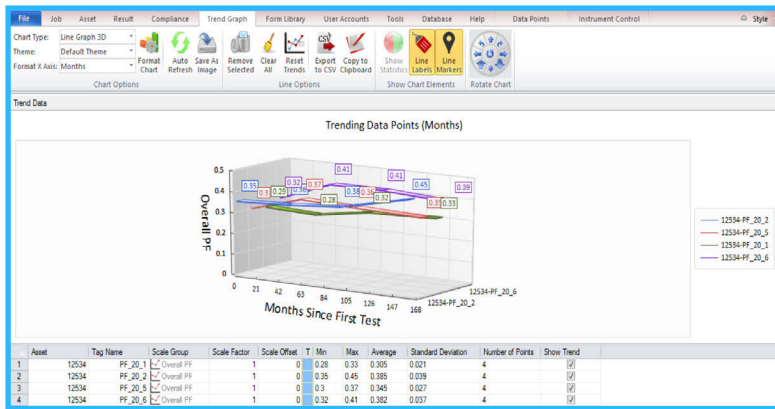
Your Enterprise system holds the core of your business data, that includes billing, payment processing, revenue and expenditures. This is only part of the picture when it comes to your assets and equipment.

PowerDB Enterprise Systems Integration allows you to tie your field and testing data into your current Enterprise System, giving you a comprehensive view of your assets from acquisition and acceptance to maintenance and end of service life. This custom service will integrate a data exchange between your PowerDB database and any other software or asset management system (SAP, Maximo, Cascade, etc.).

With a simple one or two-way data exchange between PowerDB database and your Enterprise System, your view to your electrical system is much wider, allowing you to tie in all of your ongoing costs to maintenance, and get a true return on investment of your asset.

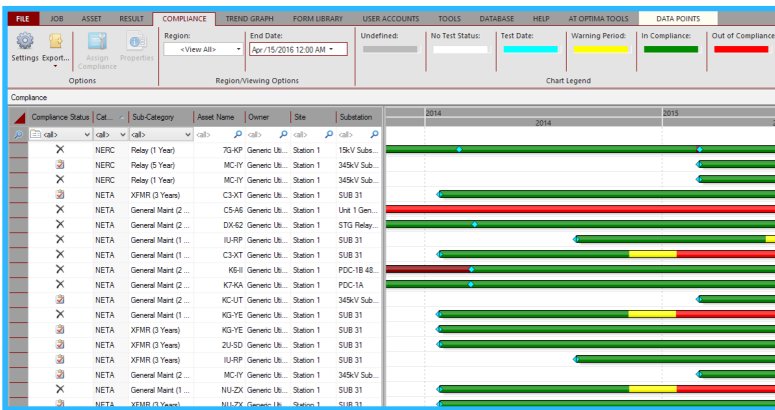
Integration also allows you to seamlessly synchronize your field data and master database to speed up work order completions and reporting. The custom data exchange maximizes data flow and bridges data gaps while also eliminating redundancy. As you collect field data, it is automatically fed into your analytic models to improve your forecasting. Enterprise System Integration allows PowerDB's robust set of data collection tools to become a part of your business model and business processes, resulting in costs savings and improved productivity.

Unleash the Power In Your Data

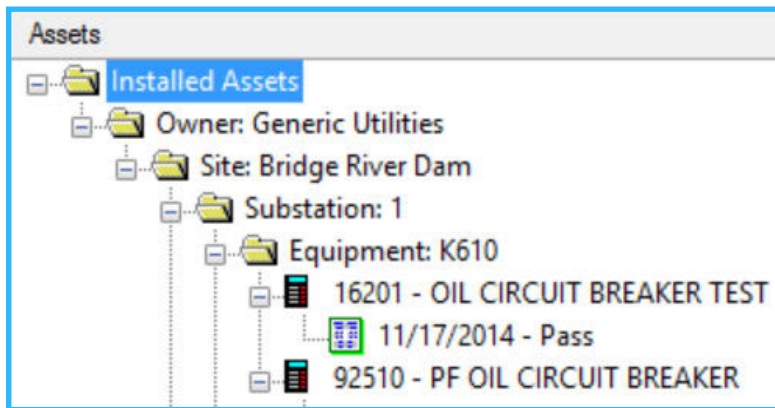


PowerDB analysis, trending and reporting tools give a clear understanding of the insight your data can give you. You can use our pre-built analysis and report tools, or we can custom build the tools you need to get the most power from your data.

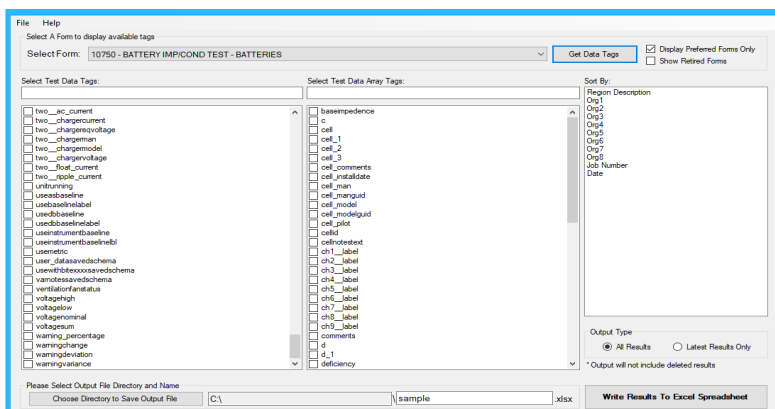
On the fly trending to evaluate and compare conditions instantly and trend data values over time for validation



Compliance insight and reporting to know where you are in your compliance process as well as pull in previous reports for automatic updates per NERC requirements



Asset folders can store a multitude of information and allow you to easily find what you need for any particular asset



The Data Query Tool gives you the ability to mine specific data and export to Excel format for further analysis without having to know SQL database queries.

Simplified Implementation

Our experienced team of developers will design an implementation process that best fits your needs and ties directly in to your current business processes. Our expert engineers and trainers will make implementing the PowerDB data collection software and database a straightforward and uncomplicated process.



Review your business to determine what features you need



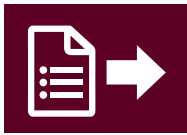
Determine the best place to store your data:



Your Server



The Cloud



Select the data to preload into the database and import test data from various sources



Integrate with your existing Computerized Maintenance Management System to create work flows and work order generation



Develop your suite of PowerDB tools: data collection forms, alerts, dashboards, test form association with assets, apps, reports



Training to get the most out of your database and the ability to expand PowerDB functionality



**Launch PowerDB and
Unleash the Power In Your Data**

With PowerDB, the data is yours and the software is yours. Support and maintenance are optional for ongoing software updates to the latest enhancements and features.

Custom Services

Our expert PowerDB engineers have the knowledge and capabilities to adapt PowerDB to suit your needs. We offer Custom Services development to maximize your implementation and potential of PowerDB by molding it to fit your workflows, processes and business model.

Custom Module Development

Special Job Order Tracking

Custom workflow development and integration

Instrument and equipment interfaces and imports with other manufacturers test instruments and databases

Signature capturing on reports to ensure completion of work

Training

PowerDB offers flexible training options designed to give you an in depth understanding of not only how to get the most out of the PowerDB feature set, but to actively develop and grow the system as your company and it's needs grow.

Implementation Training

Custom forms development training

Super User PowerDB Training

Megger[®]

Power on

PowerDB functions hand-in-hand with most Megger Test Instruments to simplify and streamline your testing process. Control testing across all of your Megger Instruments from a single software solution and directly input test data into PowerDB test forms from the instrument. It's the pairing of reliable and accurate test equipment with comprehensive and intuitive software to deliver your complete Asset Management Process solution.

Protective Relay

Transformer

Power Cable

Insulation

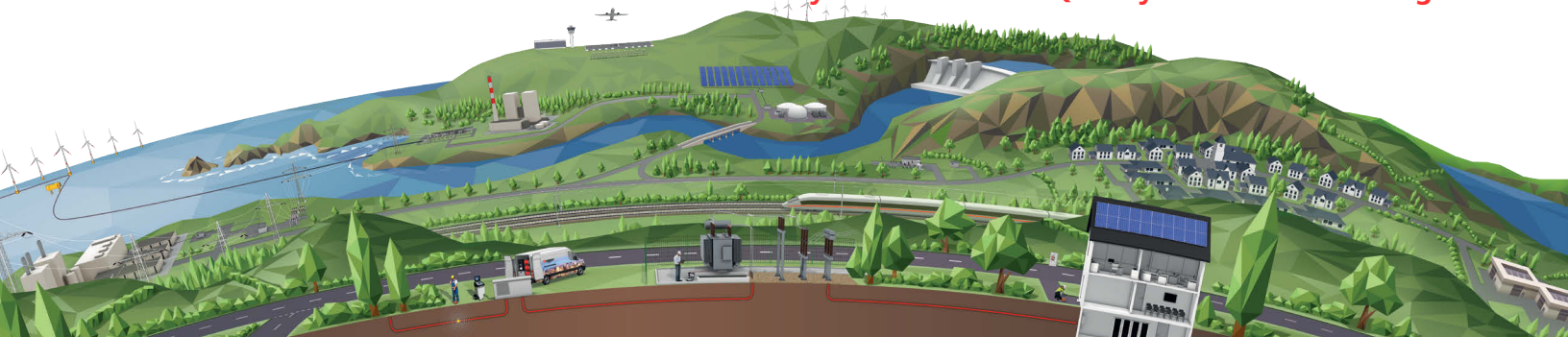
Circuit Breaker

Resistance

Battery

Power Quality

Low Voltage



Megger[®]

POWER
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