



**Dream Report**<sup>®</sup>  
Ocean Data Systems

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# **“Industrial” Business Intelligence (I-BI)**

# Three Types of Customer Investing in Industrial BI

- **NEED** Information
- **Want** Information
- **Seek** Information



## 5 Key Aspects of a Complete I-BI Solution

- **Turn Raw Data into KPIs** (Key performance Indicators)
- **Place KPIs into Context** - Enabling User Action
- **Generate Results Automatically** – Manage and Archive
- **Deliver to Stakeholders** - Drive Continuous Improvement
- **Ad-Hoc Access to Data** - Troubleshooting & Learning



# Type 1 – NEED Information

## Regulatory Compliance

- Direct Line of Business
- Fines if not delivered
- Designed for Regulations, not Operations



## Critical to Operations

- High Visibility
- Installed as part of automation infrastructure
- End of Project, High Risk, Time and Money have Run Out



WORLD  
GREEN  
BUILDING  
COUNCIL



EPBD



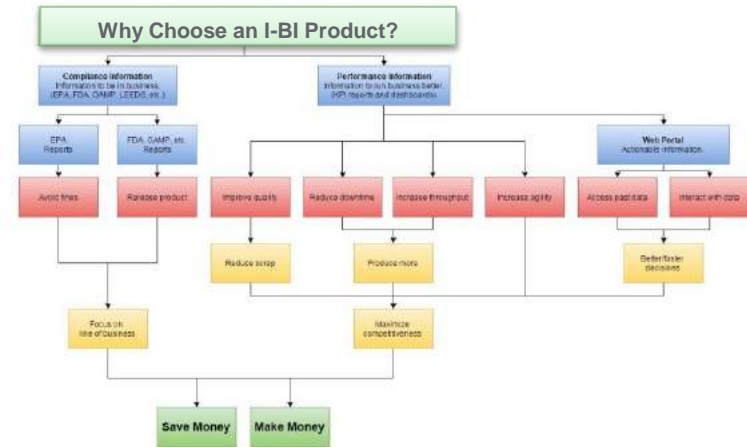
DNR



# Type 2 – WANT Information

## Continuous Improvement

- Key Performance Indicators (KPIs) – You Know Your Measures – Make Money, Save Money
- Context – Compared to What – Last Month, Last Year, Last Batch, Competition, Peers
- Routine – Is Continuous Improvement Part of Your Routine?
  - Make it Routine – Schedules
  - Bridge the Gap – Collaboration and Interaction
- Records to Look Back Upon



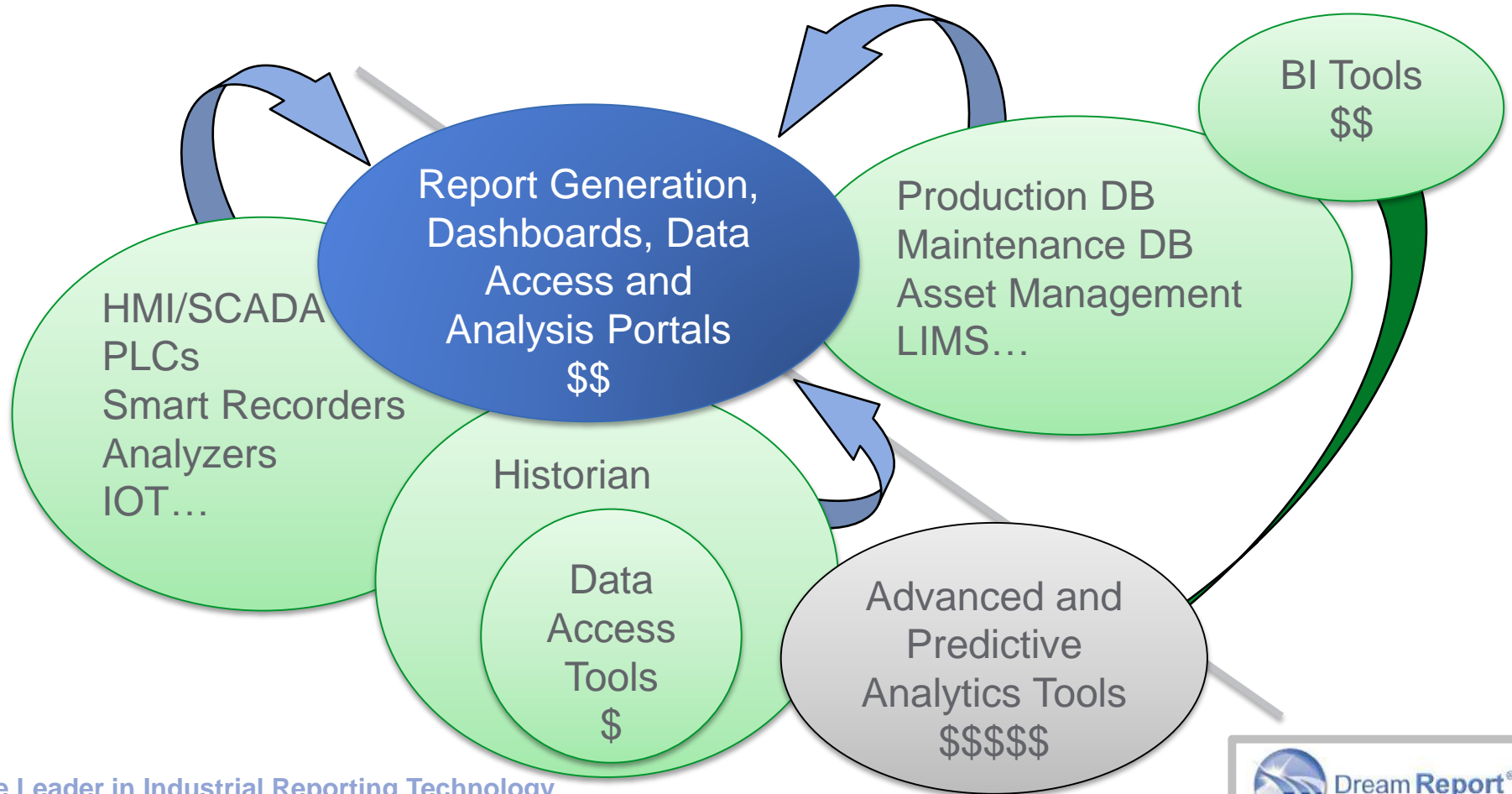
# Type 3 – Access to Information – Analytics & Troubleshooting

## ● Troubleshooting & Continuous Improvement

- Ad-hoc Analysis – Select Tags – Pan/Zoom, Search/Sort/Filter
- Export for Sharing and Further Analysis
- Store Information for Future Reference



# Bridging the “Industrial” Information Gap



# Why is Dream Report Different from other BI Tools?

## It's an “Industrial” Report/Dashboard Solution

- Connectivity to Over 80 Product and Industry Standards
- Understands “Industrial Data” and Sources
- Understands “Industrial” Calculations
- Designed for Process Engineers
- No Programming, No Scripting, Low Learning Curve
- All-In-One Solution, Download – Install – Operate
- World's Most Recommended “Industrial” Solution



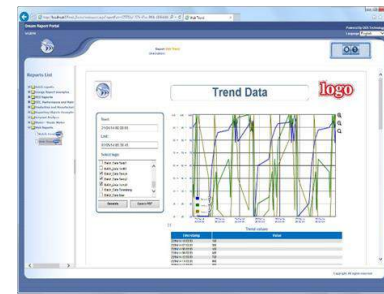
**Over 20 “Industrial” OEMs (Branded Resellers) and Partners**



# What Do You Get with Dream Report?

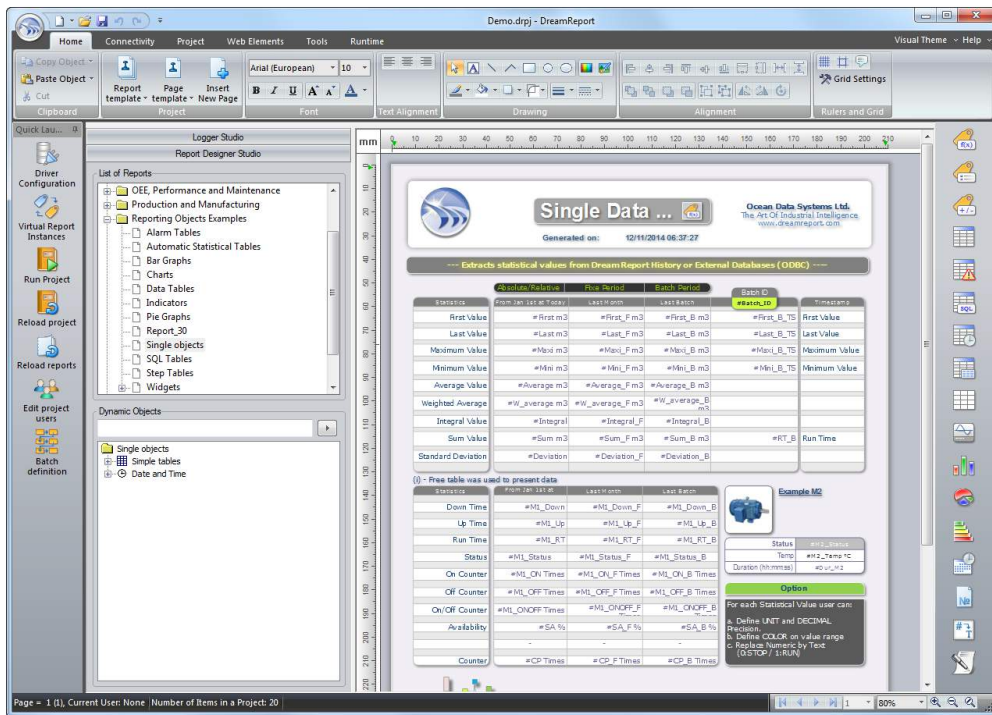
## Taming Your Ocean of Data

- Turning Raw Data into Information
- Deliver PDF, Excel, CSV, HTML5 Web Pages
- Scheduled & Event Based Triggers
- HMI/SCADA Integration – ActiveX, CMD Line, Web Services
- Email, FTP, Automatic File Management
- Data Collection, Data Logging and Manual Data Entry
- Browser Based User Portal – PC and Mobile
- 10+ Year History, 20+ Releases, and 14 Languages

A screenshot of a detailed data table with multiple columns and rows, likely representing a production report or data log. The table has a header with various categories and a body of data points.

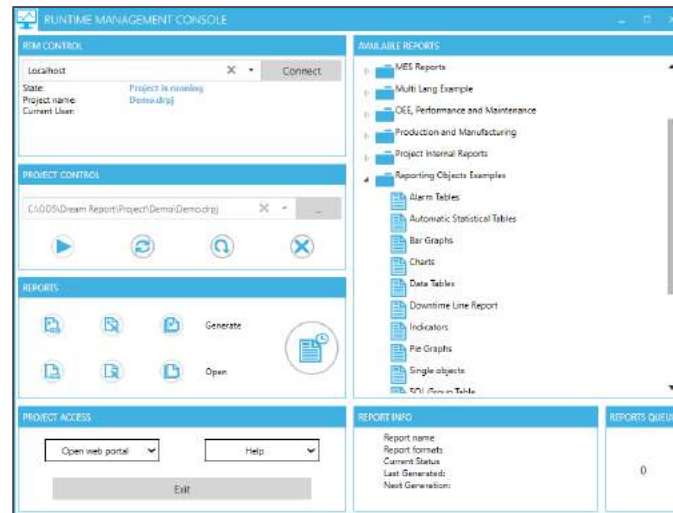
# For Operators, Engineers and Managers...

- IT is welcome, but not necessary with Dream Report...



Single Data ...  
Generated on: 12/15/2014 06:37:27

Statistics	Abolute/Relative	Flow Period	Batch Period	Batch ID	Timestamp
First Value	#First_m3	#First_F_m3	#First_B_m3	#First_B_TS	First Value
Last Value	#Last_m3	#Last_F_m3	#Last_B_m3	#Last_B_TS	Last Value
Maximum Value	#Max_m3	#Max_F_m3	#Max_B_m3	#Max_B_TS	Maximum Value
Minimum Value	#Min_m3	#Min_F_m3	#Min_B_m3	#Min_B_TS	Minimum Value
Average Value	#Average_m3	#Average_F_m3	#Average_B_m3		Average Value
Weighted Average	#W_average_m3	#W_average_F_m3	#W_average_B_m3		Weighted Average
Integral Value	#Integral_m3	#Integral_F_m3	#Integral_B_m3		Integral Value
Sum Value	#Sum_m3	#Sum_F_m3	#Sum_B_m3	#RT_B	Run Time
Standard Deviation	#Deviation_m3	#Deviation_F_m3	#Deviation_B_m3		Standard Deviation

AVAILABLE REPORTS

- MES Reports
- Multi Lang Example
- OOE, Performance and Maintenance
- Production and Manufacturing
- Project Internal Reports
- Reporting Objects Examples
  - Alarm Tables
  - Automatic Statistical Tables
  - Bar Graphs
  - Chart
  - Data Tables
  - Downtime Line Report
  - Indicators
  - Pie Graphs
  - Single objects
  - SQL Tables

# Browser Based Portal – Any User, Any Time



Report Review, Manual Data Entry, Ad Hoc Access



**Operating Report**  
Fossil Fuel Plant #0

Generated: 03/10/2015 22:44:02  
Start Date: 03/09/2015 00:00:00  
End Date: 03/10/2015 22:44:02

Net Capability	UNIT 1 Max		UNIT 2 Max		UNIT 3 Max	
	830	360	830	360	830	360
Daily Metrics Performance Score	2.5		2.5		88%	
System Interchange MW	764		725		88%	
Current Aux Power	60		64		65	
Current Reverse Net Gen.	702		005		83%	
Current Station Cos.			220%			
Current Days Online	2.8		17.4		45.2	
Record Run Days	260.7		223.2		320.9	
24 HOUR % at Rate	97.2%		103.1%		98.7%	
AGC MIN/MIN	0		4		12	
"A" Flue SCR Outlet SO2	1520		1957		406	
"B" Flue SCR Outlet SO2	306		1		1762	
SO2 Current	0.04		0.07		0.07	
SO2 Today's Daily Average	0.04		0.05		0.11	
"A" MIB	OFF		ON		ON	
"B" MIB	ON		OFF		OFF	

**Water Sample Data**

Coll. Time: 03-06-2015 20:39:34

Clarity Desc: Clear Sample

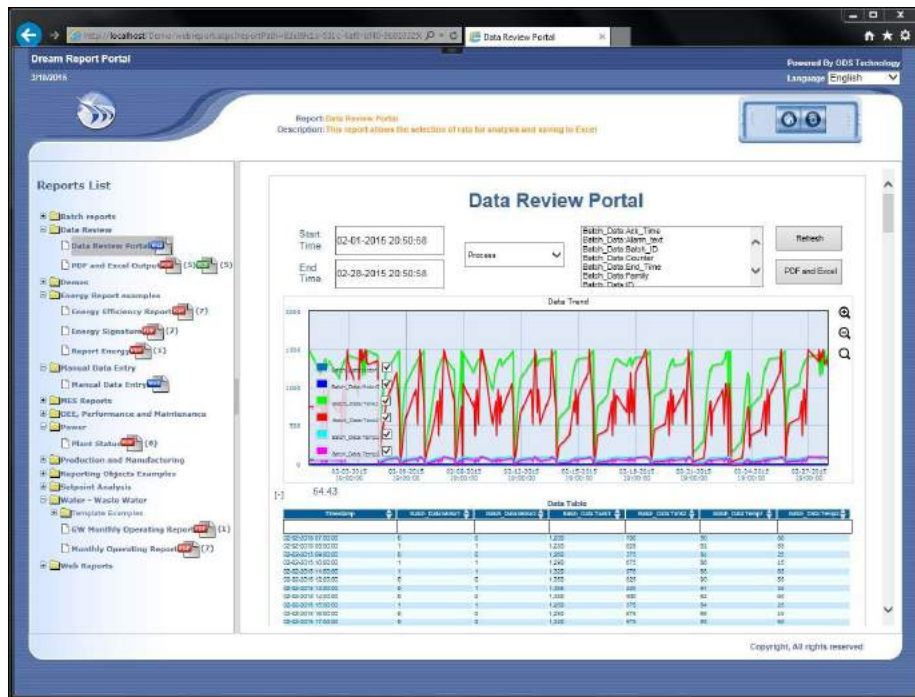
Test Notes: Normal test results

pH: 6.6      Sample ID: 12345dd

Observatory	Sample ID	Test Notes	Last Week of Data	Water Color	Water Clarity	Value #1
03-10-2015 20:39:34	123456	Normal Test Following Storms		Muddy Water		8.00
03-09-2015 20:39:34	12345	Old Chemicals for Test		Clear		7
03-08-2015 20:39:34	123456	Normal test results		Slightly Cloudy		8.00
03-06-2015 20:39:34	1234560	Normal test results		Clear Sample		6.00

# PC and Mobile Support - Automatically

## Drill Down and Review Data – Export to Excel



**Reports List**

- Batch reports
- Data Review
  - Data Review Reports (7)
  - PDF and Excel Outputs (15) (5)
- Power
  - Energy Report examples
    - Energy Efficiency Reports (7)
    - Energy Signatures (7)
    - Report Energy (4)
  - Manual Data Entry
    - Manual Data Entry (1)
- MES Reports
- OEE, Performance and Maintenance
- Power
  - Plant Status (8)
- Production and Manufacturing
- Reporting Objects Examples
- Setpoint Analysis
- Water - Waste Water
  - Wastewater Examples
  - Water Quality Operating Reports (1)
  - Monthly Operating Reports (7)
- Web Reports

**Data Review Portal**

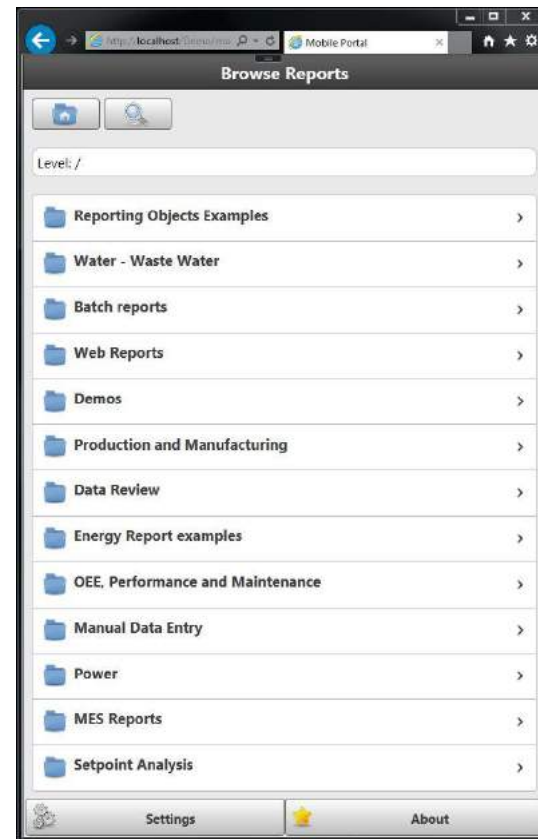
Start Time: 02-01-2015 20:50:58  
End Time: 02-28-2015 20:50:58

Refresh PDF and Excel

**Data Trend**

**Data Table**

Time	Temp	Flow	Power	Pressure	Flow	Power	Flow
02-02-2015 07:00:00	0	1	1,250	100	50	50	
02-02-2015 08:00:00	1	1	1,250	100	50	50	
02-02-2015 09:00:00	0	1	1,250	100	50	50	
02-02-2015 10:00:00	1	1	1,250	100	50	50	
02-02-2015 11:00:00	0	1	1,250	100	50	50	
02-02-2015 12:00:00	0	1	1,250	100	50	50	
02-02-2015 13:00:00	0	1	1,250	100	50	50	
02-02-2015 14:00:00	0	1	1,250	100	50	50	
02-02-2015 15:00:00	1	1	1,250	100	50	50	
02-02-2015 16:00:00	0	1	1,250	100	50	50	
02-02-2015 17:00:00	0	1	1,250	100	50	50	
02-02-2015 18:00:00	0	1	1,250	100	50	50	
02-02-2015 19:00:00	0	1	1,250	100	50	50	



**Browse Reports**

Level: /

- Reporting Objects Examples
- Water - Waste Water
- Batch reports
- Web Reports
- Demos
- Production and Manufacturing
- Data Review
- Energy Report examples
- OEE, Performance and Maintenance
- Manual Data Entry
- Power
- MES Reports
- Setpoint Analysis

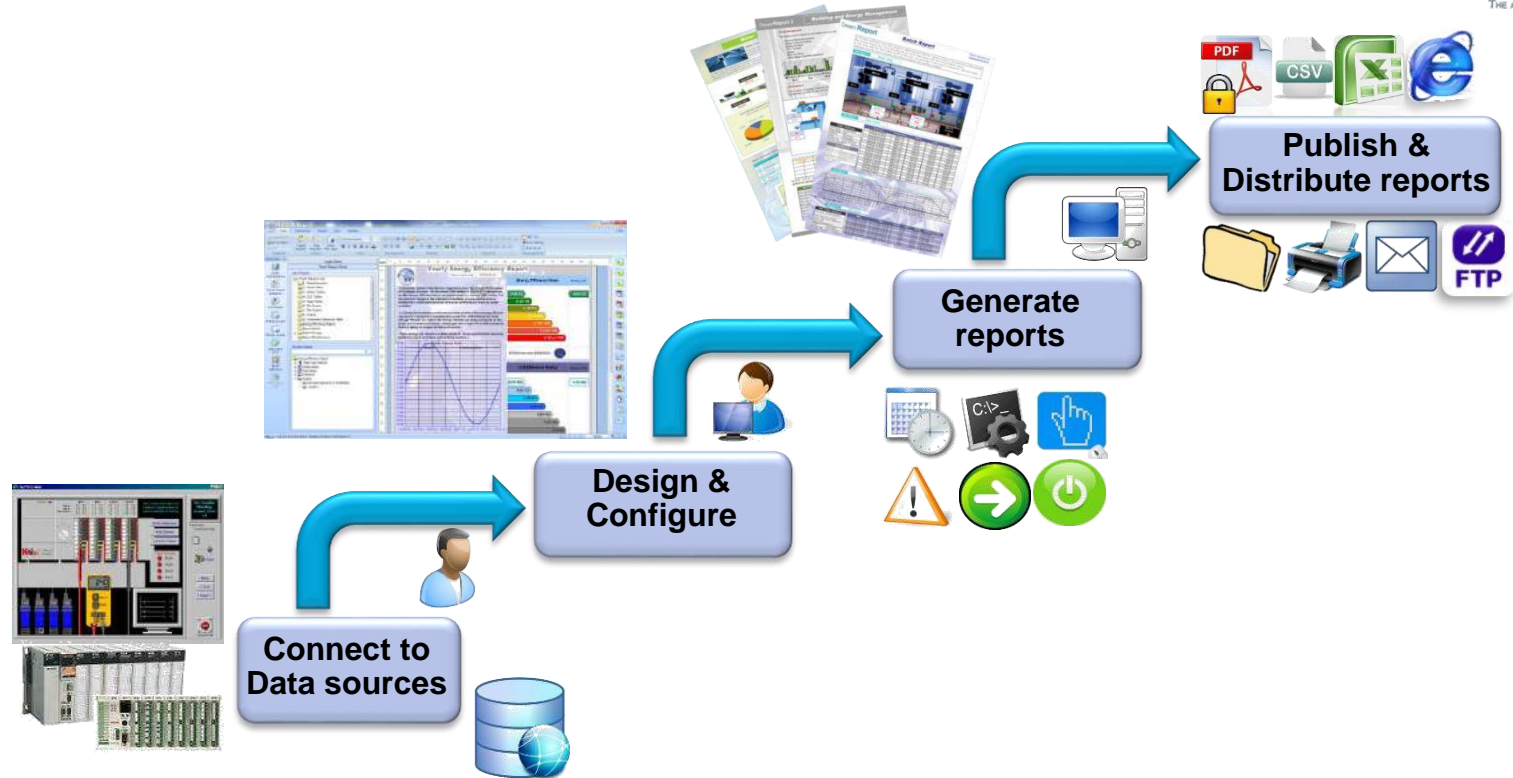
Settings About



iOS



# How it Works and What it Does



## Success Stories – [www.DreamReport.net](http://www.DreamReport.net)

1. Ease of Use – **Bear Republic Brewing**
2. Regulatory (Water and Waste Water – DNR-EPA) – **Carollo**
3. Regulatory (Food and Beverage – FDA - GAMP) – **Lifeway**
4. Regulatory (Life Sciences - FDA) – **Finesse**
5. Regulatory (Hospitals – JHACO) - **ASCO**
6. Continuous Improvement (Cost Control) – **Preferred Utilities**
7. Continuous Improvement (Quality) – **Loparex**
8. Operations – Billing – **Howard Engineering – City of Union**

# Bear Republic – Success Story

## Dream Report – Success Story – Beer Brewery

Bear Republic Brewing - Turning Water into Beer



Current production is around 72,000 barrels a year. At 31 gallons per barrel and 3.5 gallons per gallon of beer, they are requiring 7.8 million gallons of water per year. The city has them capped at 8 million gallons annually. Clearly, water optimization is an important step in increasing production.

Micro brewers are faced with many challenges, but if you're Bear Republic, there's another to add to the list – the availability of a key ingredient – water.

Bear Republic Brewing is located in Cloverdale, about an hour and a half north of San Francisco, and one of the hardest hit drought communities in California. In addition to working hard to make a great brew, they are challenged with a lack of water. Bear Republic is a significant brewing company having made the top 50 list of microbreweries in the USA. They have an annual production around 72,000 barrels.

As you can imagine, water makes up the majority of their product. In addition, a significant amount of water is required for the overall process, cleaning and the like. Industry averages highlight a ratio of 5 gallons of water use to one gallon of beer produced.

With city limits being applied to water use, it's clear that Bear Republic needed to pay close attention to their water consumption. Close attention also included filing daily wastewater reports to the city of Cloverdale.


Bear Republic took significant steps to understand and reduce their water use. These steps included systems to recover water from waste streams, water that can be used in cleaning processes. These steps also included closely monitoring water use throughout the process, even from batch to batch, monitoring activities of operators to optimize water availability for brewing. Every gallon of water saved can be another gallon used to make more beer.



The process of monitoring and optimization required the installation of twenty-three water meters, a data acquisition system, historian and reporting / analysis software to generate and deliver the required results. Water meters feed their use data to a Siemens PLC. The Siemens PLC is monitored by a Wonderware Historian. The Wonderware Historian becomes the data repository for Dream Report, a solution by Ocean Data Systems and sold by our OEM (Wonderware). This combination of products delivers exactly what Bear Republic needed to meet the city reporting requirements and deliver the production analysis to make continuous process improvements.

Much of the Bear Republic solution was specified and initially configured by the Wonderware NorCal (Northern California) office. Dream Report is also delivered through this channel as a Wonderware branded solution. Mike Uspitan, Wonderware NorCal product specialist, provided the initial Historian and Dream Report installation and tag

Dream Report by Ocean Data Systems  
[www.DreamReport.net](http://www.DreamReport.net)



### Cellar Water Usage Report

From: 4/21/2015 12:00:00 AM  
To: 4/22/2015 12:00:00 AM

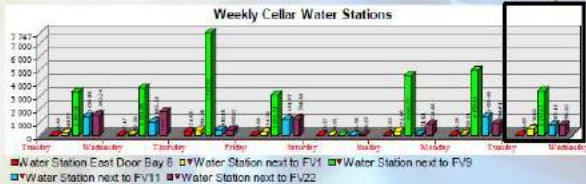
#### Cellar Water Stations

Day of the Week	Tuesday
Water Station East Door Bay 6	1,476.98 gal
Water Station next to FV1	470.05 gal
Water Station next to FV6	3,377.12 gal
Water Station next to FV11	763.18 gal
Water Station next to FV22	796.62 gal
Total	6,483.95 gal

#### Main & Effluent Comparison

Day of the Week	Tuesday
Main Water	25,951 gal.
Gallons Effluent	10,334 gal.
Effluent Percent	40 %

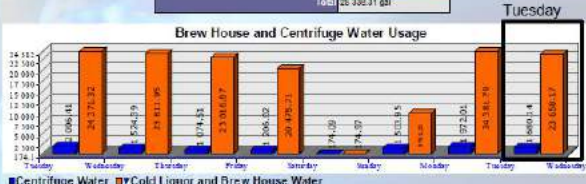
#### Weekly Cellar Water Stations



#### Brew House and Centrifuge Water Usage

Day of the Week	Tuesday
Centrifuge Water	1,600.14 gal
Cold Liquor and Brew House Water	23,688.17 gal
Total	25,288.31 gal

#### Brew House and Centrifuge Water Usage





### Effluent Flow Report

Date:  
**04/17/2015**

Main & Effluent Comparison	
Day of the Week	Friday
Main Water	25,351 gal.
Gallons Effluent	12,563 gal.
Effluent Percent	50 %





# Florida – Water Utility

State of Florida Department of Environmental Protection Underground Injection Control Program Class I										
Multiple Stream Injection Well 1 Daily Operational Data										
WACS Facility ID:			WACS Testsite ID:							
UIC Permit No.:			WACS Testsite Name: RO WTP Injection Well 1							
			Well Name:							
Month/Yr.	Injection Pressure (PSIG)			Injection Flow Rate (GPM)			Injection Total Daily Vol (MG)	Effluent Volume Stream 1 (MG)	RO Volume Stream 2 (MG)	
	Dec-15	Maximum	Minimum	Average	Maximum	Minimum				Average
1		13.3	11.0	11.2	939	742	796	1.147	1.147	
2		11.2	11.0	11.1	839	733	794	1.144	1.144	
3		24.1	9.3	11.6	1793	10	792	1.141	1.141	
4		12.2	10.9	11.0	941	742	798	1.149	1.149	
5		12.7	10.7	11.2	844	479	690	0.994	0.994	
6		12.7	10.5	11.3	848	486	665	0.957	0.957	
7		12.1	10.4	11.2	829	500	676	0.973	0.973	
8		12.0	10.8	11.1	1107	743	981	1.412	1.412	
9		11.7	10.3	10.9	842	501	711	1.024	1.024	
10		11.9	10.6	10.9	944	740	799	1.151	1.151	
11		12.6	10.7	11.0	1119	683	797	1.148	1.148	
12		11.7	10.8	11.1	1111	741	954	1.374	1.374	
13		12.9	10.5	11.1	1092	495	543	0.782	0.782	
14		13.7	11.0	11.2	779	473	535	0.771	0.771	
15		13.7	10.8	11.1	845	485	672	0.967	0.967	
16		12.7	10.8	11.1	940	648	798	1.150	1.150	
17		13.8	10.7	11.3	1044	689	804	1.157	1.157	
18		12.5	10.8	11.0	947	735	798	1.149	1.149	
19		12.6	10.5	10.9	1117	500	963	1.387	1.387	
20		23.9	7.0	11.6	2086	3	906	1.310	1.310	
21		12.1	10.6	11.1	1118	496	988	1.423	1.423	
22		11.4	10.8	11.2	560	474	531	0.764	0.764	
23		14.4	10.4	11.0	1092	504	876	1.261	1.261	
24		12.1	10.3	10.6	918	703	766	1.103	1.103	
25		11.3	9.8	10.7	803	463	586	0.844	0.844	
26		12.3	9.5	11.0	801	460	648	0.933	0.933	
27		13.0	9.2	11.1	1035	474	691	0.995	0.995	
28		12.2	10.9	11.4	1100	457	869	1.251	1.251	
29		12.1	10.6	11.1	1106	488	763	1.098	1.098	
30		12.0	10.7	11.0	1111	745	920	1.325	1.325	
31		12.1	10.6	11.0	1107	632	888	1.279	1.279	
<b>Monthly</b>		<b>Maximum</b>	<b>Minimum</b>	<b>Average</b>	<b>Maximum</b>	<b>Minimum</b>	<b>Average</b>	<b>Total</b>	<b>Total</b>	
		24.1	7.0	11.1	2086	3	774.2	34.562	0.000	
<b>WACS Code</b>		IWPMAX	IWPMIN	IWPAVG	IWRMAX	IWRMIN	IWRAVG	IWFOT	EFFTOT	ROCTOT

Switched From:  
XLReporter

# Lifeway Foods – Success Story

## Dream Report – Success Story – Food & Beverage

Lifeway – Delivering Kefir Probiotic Products

**We interviewed Zyril DeBorja, IT Manager for Lifeway Foods and asked about his whole experience, start to finish, with Dream Report. Here are his answers.**

**What drove you make this change?**

We are looking to automate as much as possible to best manage our quality and throughput. Our past manual process for reporting just wasn't a valuable use of our time, and I knew there had to be a better way.

**How did you find Dream Report?**

I was researching Excel based automated reporting tools and came across the Dream Report website. The product immediately caught my attention as I could see it was designed for industrial applications. While reviewing the site, I also saw the many partnerships that Ocean Data Systems enjoys and that made me feel comfortable that it is a reasonable technology to evaluate. I specifically noticed that Dream Report has a GE endorsement and as our automation system, on the operator and information management side, is GE based, it seemed to make perfect sense.

**Can you describe your experience in installing Dream Report?**

I downloaded Dream Report and installed it on my computer. Dream Report installed without any issues. I started the product and it comes with a demonstration mode so I could evaluate it against my actual data. The demonstration mode runs for 30 minutes at a time and that was enough to get a feel for the capabilities of the product.

Once we were comfortable that the product would do what we wanted, we issued a purchase order and received a real license. Nothing had to be changed in our demo application. We just installed the new license and we were good to go.

**Describe your experience in working with Dream Report.**

When you first open the product, it can be a little overwhelming. There are lots of items to explore and some terminology to get up to speed with. I remember that that there were a lot of videos on the Dream Report website and I decided to check them out. That cleared a lot. After doing the "Build a Report in 5 Minutes" video, I understood how to connect Dream Report to my data source and build a report. It really

Dream Report by Ocean Data Systems

www.DreamReport.net

**LIFEWAY WISCONSIN CIP6 REPORT**  
2101 Delafield St.  
Waukesha, WI 53188.  
Tel. No.: 262-312-5000

03/30/2016 03:36:27 PM

3/28/2016 12:00:00 AM

3/28/2016 11:00:00 PM

Generate

Save as PDF

**LIFEWAY WISCONSIN FERMENTATION REPORT**  
2101 Delafield St Waukesha, WI 53188, Tel. No.: 262-312-5000

40.00 40.00 40.00  
30.00 30.00 30.00  
20.00 20.00 20.00  
10.00 10.00 10.00  
0.00 0.00 0.00  
0.00 0.00 0.00

44.31

Room Temperature

Generate

Save as PDF

Fermentation 1 Tank

TEMPERATURE

99.35

Fermentation 2 Tank

TEMPERATURE

8.74

TimeStamp	Value	Mask
03/28/2016 07:37 AM	12.00	PAST BYPASS
03/28/2016 08:35 AM	1.00	PT7
03/28/2016 11:36 AM	8.00	PT8
03/28/2016 11:36 PM	1.00	PTD LINE
03/28/2016 01:12 PM	2.00	PT6
03/28/2016 04:23 PM	5.00	PT7

Zyril de borja

IT Manager

3/30/2016 03:26:55 PM

approved test

The Leader in Industrial Reporting Technology

# OEM - Finesse – Success Story

Dream Report – Success Story – Life Sciences

Finesse Solutions: Dream Report Meets 21CFRPart11

**Finesse Solutions of Santa Clara, California**, with offices around the world, is a leading supplier of bioreactor components and solutions. With over 10 years' experience in bioreactor sensors and systems, Finesse has a good handle on the needs of their market. When it came to reporting on bioreactor operation, Finesse chose Dream Report as the solution for their customers.

Bioreactors are designed to deliver the optimum growth environment for cells or bacteria. They deliver the environment used in the biotechnological production of substances such as replacement cells, pharmaceuticals, antibodies, or vaccines. This production requires a tightly controlled combination of temperature, pH, dissolved oxygen and pressure. Creating the ideal environment requires the right agitation to create a homogeneous growing medium. This environment is the ideal place for all growth, both desired and unwanted, hence cleanliness is a key factor. Many bioreactors today offer single use components, sterile replaceable bag chambers and single use sensors – all of which are the forte of Finesse.

Finesse Bioreactor Controllers for Lab and Production Use

Bioreactors vary in size from small 1 liter laboratory models to production reactors up to 2000 liters in size. More typical are configurations in the 100 to 250 liter capacity. Depending on the life to be cultured, bioreaction times can range from days for bacterial growth to several weeks for more complex cell growth.

The Finesse bioreactor controllers are a combination of standard industrial solutions, combined with layered market specific technology and Finesse-developed software, to deliver an exact-fit solution. The automation system is based on Emerson's DeltaV as the user interface and data management platform with Finesse remote I/O to their specialized single use

sensors and control elements. An important aspect of bioreactor management is the storage of recipe settings and control parameters. That is one of the custom components delivered by Finesse, for the added convenience of their customers.

Laboratory installations benefit from a reporting solution to document the many experiments and recipes to develop the best culture environment, not to mention capturing the results of the growth process to ensure quality and repeatability.

Production environments benefit from a reporting solution for the same reasons plus the requirement to meet a variety of good practice standards and regulations. These include GAMP (Good Automated Manufacturing Practice) and the regulations around the FDA 21 CFR Part 11 (Code of Federal Regulations Book 21, Part 11). 21CFRPart11 covers the requirements for the validation of data accuracy and accountability. Meeting 21CFRPart11 requires a high quality of user authentication and security, version management, audit trail and electronic signatures.

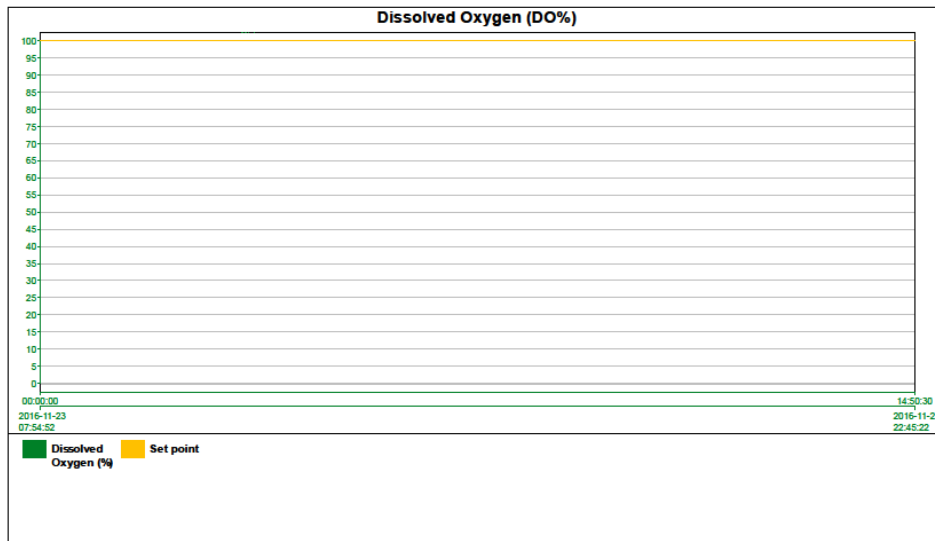
Finesse customers in both the laboratory and production environment, require a reporting solution that will be easy to learn and flexible enough to adapt to their varying needs and infrastructures. Finesse reviewed a number of solutions and selected Dream Report as their preferred offering, and have delivered over a dozen systems in the past few years.

Dream Report is uniquely qualified to meet all the requirements of this market. Connectivity is achieved through specially developed interfaces for both real-time and historical access to data, alarm and event information in a DeltaV system. Dream Report also offers over 70 other interfaces to virtually every other environment that may have information valuable for use in reports. These may include Laboratory Information Management Systems (LIMS), Inventory Systems, Customer Databases, etc. Dream Report is also "purpose built" to address 21CFRPart11. Most other products will require a great deal of customization and system integration to meet the requirements.

One very unique aspect of the Finesse universal controller requires the delivery of a reporting solution that can be quickly integrated with the customer environment, easily set up with a starter set of reports and dashboards, and ready for quick adoption by the end customer. Dream Report's logical

Dream Report by Ocean Data Systems  
www.DreamReport.net

	Date/Sign	<b>Vessel name:</b> <b>V3</b>	Batch ID: Syngene04 Batch started: 2016-11-23 07:54:52 Batch ended: 2016-11-23 22:45:22 Batch duration: 14:50:30
Report generated on: 2016-12-09 00:52:38		Report name: V3 Batch Report	Page: 1 / 20



“Finesse is all about providing flexible solutions, so we like to recommend Dream Report to our end users so they can get the same flexibility in creating their custom reports.”

# ASCO – JCAHO Generator Tests



**ASCO TEST REPORTS**

Consolidates multiple reporting methods for NFPA, NEC, and JCAHO compliance.

## ASCO Test Reports Help Business-Critical Operations Satisfy Requirements for Testing Emergency Power Systems

### Ideal for Hospitals, Data Centers, Other Critical Facilities

It takes a lot of testing and data to meet NFPA, NEC, and JCAHO requirements for on-site power systems. It can be time-consuming and costly. You need to record, store, analyze and report data on system operation, load profiling and even peak shaving.

How do you manage this responsibility? With in-house personnel using clipboards and stopwatches to gather data? By setting multiple ammeters to record data that must be manually processed? By outsourcing the work?

**A Better, Automated Way to Imagine a Better Way.** ASCO Test Reports automate the manual, time-consuming data logging required by...

- NFPA 99 and 116 for testing emergency power systems,
  - NEC 228.57 for documenting actual on-site power demand and load, and
  - JCAHO requirements for helping ensure reliable power for life safety loads.
- ASCO Test Reports are all it takes to enable facilities and engineering personnel to generate documents in a format that meet data requirements.

Now, you can automatically log, compile, interpret, archive and distribute all relevant report data with the press of a single button, or upon an actual utility failure.

**Accurate Load Profiling. Efficient Peak Shaving.** Besides capturing generator and automatic transfer switch data, ASCO Test Reports can record data on an on-site power system's actual demand load for 30 days or more.

Having accurate and up-to-date load profiles helps assure on-site power systems have the capacity to satisfy demand on all branches.

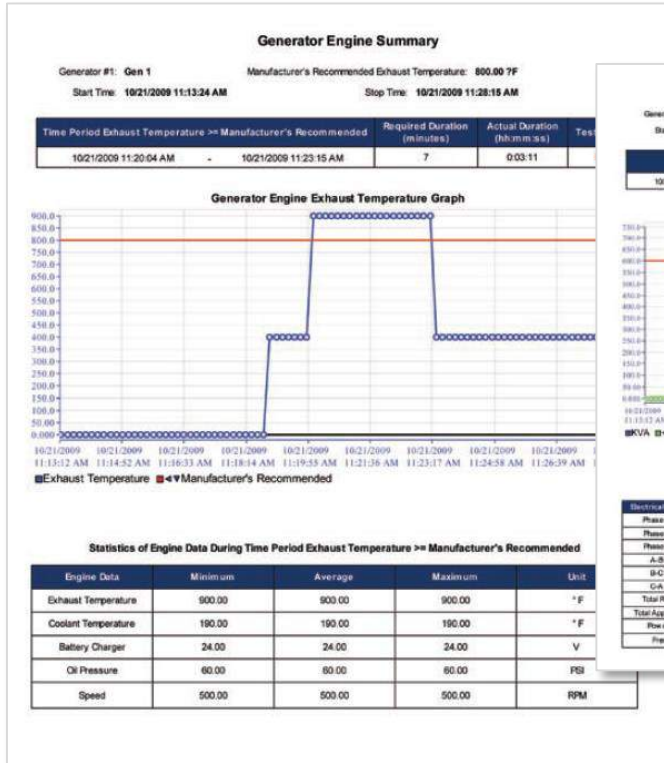
**Capture a Range of Genset, Transfer Switch Data.** ASCO Test Reports capture engine-generator and automatic transfer switch operational parameters accurately and precisely. Parameters such as percent of load, compared to 30 percent of genset nameplate rating, or engine exhaust temperature, starts and frequency of testing. A long list of time delays, voltage and amperage for each phase. And automatic transfer switch transfer and re-transfer times. All with the legendary reliability of ASCO technology and support.

Load profiles of the entire facility also are helpful. They enable a building to be operated more efficiently, and are important for peak shaving programs. With the amount of data that is required to be captured, the chance for human error always exists. What hangs in the balance is whether inspectors approve the records. And what happens if they don't.

Why leave something so important to chance? ASCO Test Reports comprise a series of graphs, charts and tables. They show operational parameters throughout a test and even 24/7 normal operation. They streamline compliance with recordkeeping requirements, save time and data storage space.

Whether your emergency power system has a single genset or multiple parallel gensets, ASCO Test Reports can produce documents that help facilitate compliance...

...quickly and easily.



Found a Dream Report Customer

# OEM - Preferred Utilities-- Success Story

## Dream Report - Success Story - OEM Solution Preferred Utilities - Boiler, Burner and Fuel Management Systems



Microsoft Excel solution. Today, performance report generation is based on Dream Report. Many lessons were learned and this success story is intended to highlight some of the issues and concerns that plagued earlier solutions.

**Custom Software** - Every equipment OEM utilizes the tradeoff between creating and maintaining their own solution, potentially having a competitive advantage through a unique offering vs. leveraging third party tools that deliver the functionality they need. In early utility markets, the software tools you won't not exist or are too basic for the task. To an engineer, this looks like a development opportunity. Performed developed and offred their own technology for reporting. While a good solution in the early days, a privately developed and custom solution doesn't benefit from the feedback and varying customer demands that comes from a broad market solution.

Their development systems are a mix of both internally developed and third party combustion control systems, combined with an HMI/SCADA operator interface and data management system from various suppliers.



The operator interface is designed for real-time management of the systems. Communications with field equipment is typically based on Modbus, this offers the operator the ability to read and write setpoints, tuning parameters and interact with the system to manage and optimize performance.

Preferred Utilities customers expect their systems to deliver the best performance possible and Preferred has delivered early on performance reporting solutions over their history. Early on, reporting solutions were based on custom software. More recently, report generation was based on an automated

system. *Lesson 1 - While custom developed solutions may get the job done, they are ultimately quite limiting and costly to support in the long term. You are better off identifying and sticking to your core competencies.*

Over time, third party tools with a focus on the automation industry became available. One common solution introduced in the 1990s was based on Microsoft Excel. The concept is to leverage Microsoft automation interfaces to insert data into an Excel workbook. Most Excel solutions leverage the mail and print functions of Microsoft Excel. While making use of Excel as a calculation engine would seem a good fit for reporting, this approach can be problematic for the following reasons:

- 1. This concept is not an "All in One" solution. The integration of multiple components from different vendors to craft a reporting solution will create a more fragile environment - reliability will be compromised. The solution may be easily and repeatedly compromised by software or technology updates (Windows vs. Server Paces).
- 2. Excel based solutions may be impacted if Excel is used for other purposes on the same computer. Your ability to the reliable background operation of Excel automation may be limited and you only know of failure when a report is lost, perhaps days after its intended generation.
- 3. While many users understand the fundamentals of Excel for business purposes, the use of Excel for automation related reporting presents challenges in the areas of missing data, bad data quality, rollover data and the

Dream Report by Ocean Data Systems  
www.DreamReport.net

05/02/2016

Daily Operating Report

Page 1 of 3

Table with columns: Time, Steam Used, Feedwater Used, Gas Used, Oil Used, Plant Efficiency, Steam Cost, Gas Cost, Oil Cost, Fuel Cost, Temperature. Rows show hourly data from 00:00 to 23:00 and a total summary row.

Table with columns: Time, Min, Max, Avg, Boiler Feed Pump 1, Boiler Feed Pump 2, Boiler Feed Pump 3, Boiler Feed Pump 4, Transfer Pump 1, Transfer Pump 2, Transfer Pump 3. Rows show hourly data and a total summary row.

Large table with multiple columns: Time, Steam Used, Feedwater Used, Gas Used, Oil Used, Efficiency, Steam Cost, Gas Cost, Oil Cost, Fuel Cost, Temperature. Includes multiple summary rows with totals for Steam, Feedwater, Gas, Oil, and Fuel.

Switched From:  
XLReporter

# LOPAREX – Success Story


Dream Report – Success Story – Roll Products

Loparex – World’s Leading Supplier of Release Liners



Release liners are the backings to many of the products that you use every day. Loparex is a leading global manufacturer of silicone release liners, used in a wide variety of pressure sensitive adhesive applications.



Loparex currently runs 7 manufacturing locations around the world. These locations are responsible for the manufacturing of hundreds of products.



Their Iowa City, Iowa plant wanted to upgrade the reporting capabilities on one of their large converting lines. This production line manufactures large rolls of liner material that can be valued at several thousand dollars. The process it performs is coating the material with a thin layer of polyethylene film. This is a continuous process that results in roll after roll being produced to very strict specifications. Key variables must be monitored to ensure the quality and uniformity of each roll. Variables include monitoring of process temperatures, pressures, flows and power. Follow-on steps include adding the silicone release coatings.

Their automation environment consists of Allen Bradley PLC-500 controllers connected to GE iFIX and GE Historian. These

Dream Report by Ocean Data Systems  
[www.DreamReport.net](http://www.DreamReport.net)

systems make up the operator interfaces and system controls. Data is then stored in the Historian with additional roll information also being stored in a production database accessible through an ODBC connection. This database includes Roll ID information as well as Operator and Shift data.

Loparex had an existing reporting solution in place, one that was developed in house through the use of Microsoft Excel and VBA. This solution had worked for many years but required high maintenance, specialized knowledge to support it and it did require some manual intervention – was not fully automated. A better solution needed to be found.

Another Loparex plant in Hammond, Wisconsin had recently used Dream Report to prototype a roll report on one of their converting lines. Loparex’s Corporate Engineering facilitated a selection process considering several options for implementing roll reports including Dream Report. After some consideration Dream Report was chosen for the roll reporting solution.



One of the process engineers at Loparex Iowa City, John Johansen, talked with their local GE distributor, Industrial Network Systems (INS) to learn more about Dream Report. After an orientation webinar and access to a trial version, John implemented Dream Report on a system.

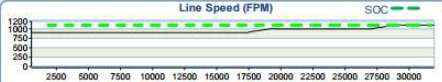

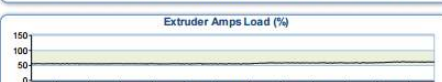


John’s goal was to create a system that would be fully automated, with the ability to generate pass/fail reports for every roll produced. Each roll has a serial number. Production parameters will vary greatly based on the product being produced and each roll needs to have recipe information verified and documented. While these reports are required for internal record keeping, the process of automated documentation for each roll produced is a valuable one in

03/30/2016 12:27:38
LOPAREX

Roll ID: J086043E0894498	Actual LF: 32111	Roll Start: 3/30/2016 12:23:10 PM
Grade: 11283	Team ID: A	Roll End: 3/30/2016 12:56:22 PM
Step: 1	Operator: 1436	Duration: 0:33:12

Key Process Variables	Status
Machine Status	RUNNING
Corona Treater	GOOD
Primer Station	GOOD
Web Temp	GOOD

RDS Quality  
GOOD ROLL






<div style="margin-bottom: 5px;"> <p style="text-align: center; font-weight: bold;">Line Speed (FPM)</p>  </div> <div style="margin-bottom: 5px;"> <p style="text-align: center; font-weight: bold;">Corona Treater (KW)</p>  </div> <div style="margin-bottom: 5px;"> <p style="text-align: center; font-weight: bold;">Extruder Amps Load (%)</p>  </div> <div style="margin-bottom: 5px;"> <p style="text-align: center; font-weight: bold;">Oven Web Temp (F)</p>  </div> <div style="margin-bottom: 5px;"> <p style="text-align: center; font-weight: bold;">Primer Rolls (fpm)</p>  </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>SOC</td><td>1100</td></tr> <tr><td>AVG</td><td>952</td></tr> <tr><td>MAX</td><td>1107</td></tr> <tr><td>MIN</td><td>898</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>SOC</td><td>5.00</td></tr> <tr><td>AVG</td><td>5.00</td></tr> <tr><td>MAX</td><td>5.04</td></tr> <tr><td>MIN</td><td>4.81</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>AVG</td><td>57.3</td></tr> <tr><td>MAX</td><td>62.9</td></tr> <tr><td>MIN</td><td>53.9</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>SOC</td><td>160</td></tr> <tr><td>AVG</td><td>160</td></tr> <tr><td>MAX</td><td>162</td></tr> <tr><td>MIN</td><td>158</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>TR</td><td>MR</td></tr> <tr><td>AVG</td><td>401 149</td></tr> <tr><td>MAX</td><td>404 150</td></tr> <tr><td>MIN</td><td>397 149</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Ozone</td><td>% Conc.</td></tr> <tr><td>AVG</td><td>3.6</td></tr> <tr><td>MAX</td><td>3.7</td></tr> <tr><td>MIN</td><td>3.4</td></tr> </table>	SOC	1100	AVG	952	MAX	1107	MIN	898	SOC	5.00	AVG	5.00	MAX	5.04	MIN	4.81	AVG	57.3	MAX	62.9	MIN	53.9	SOC	160	AVG	160	MAX	162	MIN	158	TR	MR	AVG	401 149	MAX	404 150	MIN	397 149	Ozone	% Conc.	AVG	3.6	MAX	3.7	MIN	3.4
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Primer Station Nips - Metering Roll: ENGAGED    Backing Roll: ENGAGED  
 Lupasol Consumption: 1.12 #/R (estimate last 2 hours)

03/30/2016 08:50:41 AM
LOPAREX

Roll ID: J086043E0894498	Actual LF: 31536	Roll Start: 3/30/2016 08:30:41 AM
Grade: 11283	Team ID: A	Roll End: 3/30/2016 08:50:41 AM
Step: 1	Operator: 1420	Duration: 0:20:25

Key Process Variables	Status	RDS Quality
Machine Status	RUNNING	REJECT ROLL
Corona Treater	CORONA FAULT	
Primer Station	Open NIP Fault	
Web Temp	GOOD	

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Primer Station Nips - Metering Roll: ENGAGED    Backing Roll: OPEN  
 Lupasol Consumption: 0.78 #/R (estimate last 2 hours)

Switched From:  
SSRS

# SI - Howard Engineering – Natural Gas Distribution

 **Dream Report – Success Story – Municipal Utilities**

Howard Engineering – Natural Gas Distribution Monitoring



**HOWARD ENGINEERING**  
ELECTRICAL • CONTROL • AUTOMATION  
MARIETTA, SOUTH CAROLINA

now up to speed with Dream Report, its features and benefits and will be using it on future applications of this type.

This application included a few interesting challenges that would be difficult for other solutions, but turned out to be extremely simple with Dream Report.

In one system, remote RTU information is delivered to a SQL Database through a polling system at 10:00am each morning. This poll information includes totalized gas flow data for the previous day. Developing a report for this information requires the skewing of report data by a day to generate a monthly report and performing report calculations at a time after the poll cycle to assure data is available.

When presented with an opportunity to deliver a natural gas reporting system for their local municipalities, Howard Engineering reviewed the alternatives and selected Dream Report.

Key aspects involved in these projects included:

- Interfacing to SQL databases with Daily RTU Data
- Interfacing to AutoSoft EFM data
- Delivering Reports to various customers
- Reports in PDF and Excel formats
- Support scattered reporting schedules
- Offer real-time updates
- Support PC and Mobile devices

Ease of use, reliability, flexibility and overall cost effectiveness are foundational requirements that cannot be understated.

Dominic Howard of Howard Engineering had previous experience with most common business reporting solutions and Excel oriented reporting solutions. These solutions, while able to meet some of the key aspects of this application, failed miserably at the foundational requirements. Earlier in 2016, a local distributor, Advantage Industrial Automation, made Dominic aware of their latest product solution, Dream Report by Ocean Data Systems.


The steps to evaluating and installing Dream Report were as follows:

- 1) Arrange a webinar with Ocean Data Systems to review application requirements and assess the possible fit
- 2) Download Dream Report and request a trial license for application prototyping
- 3) Purchase the license for customer installation
- 4) Obtain a System Integrator development license for long term support
- 5) Watch videos on [www.DreamReport.com](http://www.DreamReport.com)
- 6) Start building the customer application
- 7) Engage Ocean Data Systems and Advantage Industrial with tech support questions
- 8) Deploy the application on site

The entire process of evaluation and learning, to customer deployment, took less than two weeks. Howard Engineering is

Dream Report by Ocean Data Systems  
[www.DreamReport.net](http://www.DreamReport.net)

FIRM INDUSTRIAL				LARGE COMMERCIAL					
	READING	PRIOR DAY	CURRENT DAY	READING	PRIOR DAY	CURRENT DAY	READING	PRIOR DAY	CURRENT DAY
1	2057239	1091	0	1512108	459	0	351451	18	1
2	1838659	872	1	291030	157	0	2157	41	0
3	1045461	747	0						
4	944170	692	2						
5	632798	181	3						
6	512488	125	1						
7	246280	99	0						
8	436341	142	0						
9	370374	152	2						
10	168881	123	0						
11	305386	40	0						
12	105623	79	0						
13	252533	72	0						
14	175489	46	0						
15	148666	40	1						
16	150767	29	0						
17	223376	96	0						
18	82319	54	0						
19	36849	9	0						
20	34711	32	0						
21	40373	15	0						
22									
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27									
28									
29									
30									
31	<b>TOTAL MCF</b>	<b>10408823</b>	<b>4736</b>	<b>10</b>	<b>TOTAL MCF</b>				
32									
33	<b>TOTAL INDUSTRIAL USAGE</b>	<b>5963</b>	<b>11</b>						



The screenshot shows a web browser displaying the 'DR Web Portal City of Union, SC'. The 'Reports List' includes 'Daily 1, Utility, Flow', 'Daily 1, Utility, SW', 'Daily 2, Utility, Flow', 'Daily 2, Utility, SW', 'Daily 3, Utility, Flow', 'Daily 3, Utility, SW', and 'Daily Meter Web Report'. The 'Gas Meter Data' section shows:

- METER #1:** Corrected Volume 127496 MCF, Instantaneous Flow 12.46 MCFH, Previous Days Vol. 388 MCF
- METER #2:** Corrected Volume 134292 MCF, Instantaneous Flow 13.29 MCFH, Previous Days Vol. 387 MCF
- METER #3:** Corrected Volume 78221 MCF, Instantaneous Flow 13.70 MCFH, Previous Days Vol. 400 MCF

Switched From:  
XLReporter



**10 years ago Dream Report was the pioneer in the user friendly generation of industrial reports**

**Our near term focus is for Dream Report to pioneer new ways of working with that data and accessing it**