

## Loss Analysis and Downtime Tracking Software

### Capture and Analyze Causes and Trends for Production Loss and Equipment Downtime

**SØNAR®** is the industry's leading package for tracking production losses, and access to information via **SØNAR®** can help you reduce costs, focus maintenance efforts, and increase production. By analyzing areas and causes for lost production over time, you can easily make maintenance decisions that focus your dollars where the impact on loss and downtime is greatest, reducing maintenance costs and keeping your production on target.

**SØNAR®** is exceptionally easy to use. Input your plant's physical and operational characteristics. At the end of each production run or shift, input the planned and actual production values. For each event that occurred during the shift that caused a reduction in actual production, associate the specifics of the event with the cause, including identifying machine, area, sub-area, and equipment. Designed for use by engineering, production, and maintenance personnel, **SØNAR®** features an easy-to-use interface to assist in encouraging widespread adoption.

### Mission Critical Information

Keeping a high speed pulp or paper machine running smoothly is not an easy task. If ever there was a mission critical application, this certainly qualifies. One of the best ways to improve maintenance efficiency is to improve the availability and quality of information.

**SØNAR®** puts information at your fingertips, for planning and decision support.



### Analyze Production Losses

- Identify each cause of production loss or downtime.
- Relate each cause to its event
- Identify short and long-term trends
- Identify areas for greatest return on maintenance activities
- Customize lists of machine areas, subareas, equipment, events, and causes

## Return On Investment

**SØNAR® is designed to save mills money:**

- Consolidates all information in a central location
- Saves time collecting and retrieving information
- Tracks over long term periods such as plant lifecycle
- Identifies trends
- Flags components due for maintenance
- Eliminates unknowns in maintenance planning

**Recover the entire cost of the SØNAR® software, with only a few hours of decreased machine downtime.**

**BREAKWATER  
DESIGNS LIMITED**

**P.O. Box 1980,  
Sechelt, B.C., Canada**

**Tel (604) 885-4325  
Fax (604) 885-4355**

**www.sonar.ca**

**info@sonar.ca**

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## Loss Analysis and Downtime Tracking Software

### Configure the System to Reflect Realities in Your Plant

- Include all aspects of your plant, or only as much as you want
- Kamyrs, digesters, pulp machines, paper machines
- Inputs such as steam, liquor, hog fuel, etc.
- Recovery equipment like boilers and evaporators
- Motors, generators, valves, breakers, etc.

### Analyze Results Through Reports and Graphs in Summary or Detail

- Area Performance Report
- Downtime Report
- Loss Analysis Report
- Trend Charts
- Pareto Charts
- Ad-hoc Reporting and Excel Export

### Real-World Experience

**Breakwater Designs Limited** is a leading developer of web-based industrial software.

In what appears to be a brand new field, Breakwater has hands-on, real-world experience. We've been developing industrial applications for over a decade, and web-based software since 1994.



### Access to Information

- Requires only a web-browser (Internet Explorer)
- XML Inside - easy integration with other systems
- Easy-to-use graphical interface
- Export data for analysis, graphing
- All data stored on server
- Use Microsoft Office tools
- ISO 9001 Standards support
- Custom interfaces supported



### Integration with Other Systems

**SØNAR®** is designed to easily share information with other mill systems, including Accounting, ERP and Maintenance Management packages.

The use of XML for data exchange eases data sharing issues, and the SQL Server database allows ODBC exchange with other software. SQL query and reporting tools are included to allow easy access to accumulated roll data.

Although **SØNAR®** is designed for open access by client IT staff, Breakwater is also pleased to assist in integrating with other mill databases and systems.

### Scalable Architecture

Multi-tier, object-based architecture makes the system easy to configure and extend. All code resides on the server, enabling support for transaction management, queuing and clustering. User access and administration is controlled using tools based on the Windows NT security model. **SØNAR®** can be hosted from a central corporate server or ASP (Application Service Provider).

### IT Details

- Compiled, server resident DLLs (fast & secure)
- XML Inside - easy integration with other systems
- Microsoft COM/COM+- compliant
- N-tier Design (separate business objects)
- Support for W3C DOM
- Scalable Architecture
- MTS (Microsoft Transaction Server) Support
- Server Load Balancing Windows NT, 2000, XP
- Microsoft SQL Server Database
- Configurable Security - NT model
- Crystal Reports
- JavaScript, VBScript, DHTML
- Export data for analysis
- Integrated with Microsoft Office
- SQL queries