Sheet property variations can cause issues like rejects, sheet breaks and lost profit. ABB Paper Quality Performance enables effective MD and CD controls by providing variability analysis, in-depth diagnostic support and predictive alerts to help meet quality targets more consistently than with any other solution available today.

**Overview**
Swings in paper properties – like basis weight or moisture – are costly since they can cause rejects and off-spec tonnage, as well as machine breaks due to variability-related issues like wrinkles and soft edges.

Mills can now gain a deeper insight into issues causing variability than with any previously available offerings; Paper Quality Performance, an ABB Ability™ Performance Service, combines online analytics for machine direction (MD) and cross direction (CD) variability with performance monitoring by experts to identify the root cause of variability issues. Using online paper property data – combined with proprietary algorithms, in-depth diagnostics, expert-based recommendations, proactive improvement actions and predictive notifications – ABB helps you find and solve the root cause of variability to better meet paper quality requirements.

The solution provides both a reel-based snapshot of one reel’s variability and an industry-first, time-based variability analysis of trends longer or shorter than one reel. This is coupled with QCS MD and CD control utilization monitoring to help attain and maintain tighter spec limits, and avoid unnecessary costs.

**Features**
- Automatic, non-invasive data gathering
- Reel-based variability calculations
- Time-base variability calculations providing continuous identification of CD and MD variability, independent of reel turn-ups
- Online control utilization reporting
- Predictive alerts when variability exceeds limits
- Delivery as a service, providing access to deeper insight from ABB CD/MD variability experts
- Available as a standalone application or integrated with ABB QCS800xA

**Benefits**
- Reduces amount of off-spec paper and rejects
- Improves paper machine runnability
- Enables faster grade changes
- Reduces sheet break and start-up recovery times
- Facilitates strong collaboration between ABB experts and customer experts
- Enables more consistent quality
- Provides labor and travel expense savings with remote monitoring, troubleshooting, and optimization actions
- Increases mill profitability
Ensuring optimal control strategies with deeper analysis

Paper Quality Performance identifies both current and changing trends in paper quality with a holistic view of variability; reel-to-reel variability and time-based variability independent of the reel being built.

Time-based analysis means MD variability independent of reel-based calculations can now be identified, giving benefits in quality, production output and raw material savings. Time-based reports are particularly helpful in finding longer-term variability causes for weight, moisture and other properties of the paper. The solution also helps discover whether variation problems are arising from paper machine processes or the control system itself, allowing them to be addressed and corrected.

Additionally, ABB analyzes each shift report to determine the percentage of time each control is used per shift and measures it against the optimum utilization for a specific control, thus identifying under-utilized controls and reducing shift-to-shift variability.

By giving you online, reel-based variability analytics, industry-first online time-based variability analytics, advanced warnings, in-depth diagnostic capabilities, and intuitive dashboards, together with ABB's collaborative network of paper quality experts, ABB Paper Quality Performance provides continuous insights and proactive optimization actions – resulting in a superior return on your investment.

Delivery as a service enables expert support

Delivered via Collaborative Operations, Paper Quality Performance, an ABB Ability™ offering, connects services that leverage the availability and transparency of data from the Ability platform into a data ecosystem. By connecting ABB and customer experts to data in a collaborative environment, problems can be quickly diagnosed, and corrective actions implemented.

ABB assists you in deciphering the data and provides periodic reviews of KPIs, trends, profiles and alerts to identify improvement actions and further improve paper quality. This can be done remotely, meaning you don’t need to wait days or weeks for an expert to travel to the site to resolve the problem.

Don't wait for another paper reject to start optimizing quality now; get in touch with ABB today to learn how you can gain continuous intelligence on paper quality enabling optimization actions to better maintain your required specifications.