

Cement FingerPrint

Process and energy consulting service

ABB's Cement FingerPrint is a process optimization and energy consulting service designed to capture, analyze and improve operational performance and energy efficiency across the cement making process. Using ABB's proven analytical and process modeling tools, complimented with in-depth industry specific knowledge and competency, we help our customers to achieve operational excellence.



Cement FingerPrint facilitates customers to collaborate with ABB experts to achieve optimal process performance and improve cost effectiveness. Cement FingerPrint ensures tuning of plant control system efficiently, benchmarked to industry best practices. Further, Cement FingerPrint offers a systematic approach in capturing the process sensitivity using plant step tests, building a dynamic process model, analyzing site constraints and identifying improvement opportunities. On review and acceptance of the solutions, the same can be implemented to realize identified benefits.

Deliverables

Cement FingerPrint identifies potential benefits and offers improvement opportunities, including:

- plant benchmarking with industry standards.
- plant variability study.
- control loop performance report.
- process performance analysis.
- energy efficiency potential.
- access to best practices.

Workflow

The complete implementation process is carried out in three phases:

Pre study phase

- Historical key data collection
- Agreement on schedule

FingerPrint implementation phase

The workflow comprises the following steps:

- Collection of plant data
- Execution of plant step tests and modeling
- Calculation of potential benefits
- Report generation
- Report and workflow validation
- Submission and discussion with customer

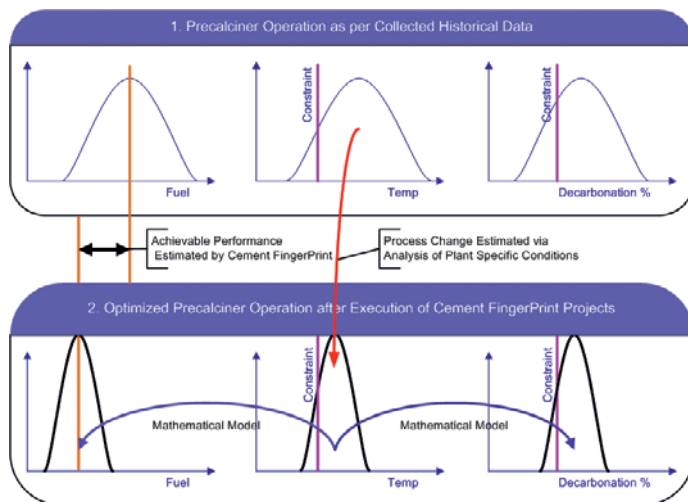
Benefit realization phase (if approved)

Recommendation implementation.

Improving your operational excellence and performance

Architecture

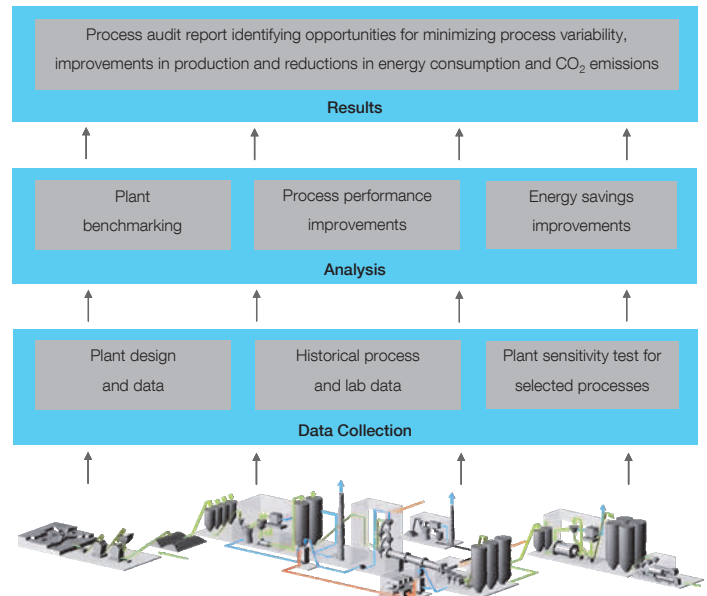
- Collection of operational data
- Analysis of process performance and site constraints
- Plant modeling
- Usage of obtained process models and operational data to identify process enhancement and energy efficiency opportunities



Cement FingerPrint workflow

Value proposition

- Process and energy consulting service for cement plants
- Higher production and better quality
- Lower energy consumption and reduced CO₂ emissions
- Cement FingerPrint is directly related to ABB's solution portfolio for cement industry
 - Process control system
 - Variable speed drives
 - Instrumentation & actuators
 - Continuous gas analyzers
 - Emission monitoring
 - Online measurement for bulk materials
 - Advance process control solutions
 - Heat recovery power plants
 - Energy management solutions
- Minerals Remote Monitoring Center (MiRMC) offering
 - Remote audit
 - Monitoring and tuning of plant control system and process



Cement FingerPrint value proposition

For more information please contact:

ABB Global Industries & Services Limited ABB Limited

Block 1, Bhoruka Tech Park, Mahadevapura
White Field Road

Bangalore – 560048

India

Phone +91 804 206 9950

Fax +91 804 206 9915

E-mail: cpm.minerals@in.abb.com

ABB's Minerals business unit is represented in the following countries:

Australia, Brazil, Canada, Chile, China, Egypt, Estonia, Germany, Greece, India, Indonesia, Latvia, Lithuania, Malaysia, Mexico, Norway, Oman, Peru, Poland, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Thailand, USA and Vietnam.

For contact details, please visit our website:

www.abb.com/cement

Power and productivity
for a better world™

