

# *SMART Benchmarks!*

*SMART Benchmarking Working Group Update 2016*

*May 1, 2016*

*2016 CIM Vancouver*



**SMART**

Surface Mining Association  
For Research & Technology

# Production Shovels & Excavators

## SMART Performance Benchmarks, 2003-2015

Equipment Fleet	SMART Benchmarking Company Participants									
	1	2	3	4	5	6	7	8	9	10
BE 295										
BE 395										
BE 495										
BE 595										
Marion 301										
Marion 351										
P&H 2300										
P&H 2800										
P&H 4100										
Cat 375										
Demag 455										
Demag 485										
Demag H655SP										
Hitachi EX1800										
Hitachi EX5500										
Hitachi EX8000										
Hitachi UH501										
Komatsu PC1800										
Komatsu PC8000										
O&K RH120										
O&K RH200										
O&K RH400										

No longer participating

# Production Trucks, Draglines & Loaders

## SMART Performance Benchmarks, 2003-2015

Equipment Fleet	SMART Benchmarking Company Participants									
	1	2	3	4	5	6	7	8	9	10
Cat 988										
Cat 992										
Cat 994										
LeTourneau L-1800										
LeTourneau L-1850										
BE 1360-W										
Marion M7800										
Marion M8050										
Marion M8750										
Cat 777										
Cat 789										
Komatsu 685E										
Komatsu 730E										
Cat 793										
Komatsu 830E										
Cat 797										
Hitachi EH5000										
Komatsu 930E										
Liebherr 282										

No longer participating

# *SMART Benchmarks!*

## **Accomplished in 2015-2016**

- \* Onboarding 2 new benchmarking subscribers
- \* Developed proposal for system enhancements with Golder Associates & SMART Benchmarks! team

### *Why?*

- \* *2007 website has seen little change since its inception*
- \* *Web-server technology compatibility issues*
  - \* *Update website to provide quality user experience on traditional and smart devices including tablets and phones*
- \* *Offer enhancements - Phase 1, No New Data Required*
  - \* *Expand features, including fleet classification, additional metric(s) and improved data-chart reports*
  - \* *Improved user accessibility to data.*



# *SMART Benchmarks!*

## **Continuous Improvement Plan, 2016-2017**

- \* Audit equipment fleets
  - \* add any new equipment fleets & data
- \* Audit of normalization of the data
  - \* ensure equivalent assignment of time elements
- \* Marketing strategy to reach new subscribers



# *SMART Benchmarks!*

## ***Next Steps for Subscribers***

- 1. Respond to queries from SMART Data Management team - Golder Associates on equipment audit/ update process*
- 2. Consider path forward on system enhancements*
  - \* Decide on Phase 1*
  - \* Subscriber call-in meeting to discuss details and feedback, May-June 2016*



# New Business

1. Understand GMSG Mining KPI project
2. Develop Phase 2 Enhancements
  - \* enhancements that may require subscribers to submit new data elements and for the system to be modified to import and use the new data
3. Promote & Grow SMART Benchmarks!
  - \* Low-cost, high-value product with long-standing and new subscribers
  - \* Consider other engagement opportunities
  - \* Continue to leverage quality technical support from Golder & Associates.

2015-2016 SMART Benchmarks! Working Group  
welcomes your

# Questions & Feedback

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# 2016 Subscriber Fees

The fee schedule starting January 1, 2016 is summarized below:

<b>Fee Item</b>	<b>Amount (\$CAN)</b>
Annual Subscription Fee	\$7,500
Development Fee (for first operation)	\$12,500
Development Fee (for additional operations)	\$10,000
Initial Data Setup Fee (varies based on requirements)	Approx. \$10-\$15k

Note: Fees are subject to change with approval from the SMART organization.