








## ABB CORPORATE B-ROLL 2008

THIS "B-ROLL" INCLUDES USEFUL BACKGROUND SHOTS FOR BROADCAST USE IN BOTH ASPECT 4:3 AND 16:9 FHA ASPECT RATIOS.

VIDEO ONLY, NO AUDIO

<hr/> <b>1 – LOGOS WITH AND WITHOUT SLOGAN</b>  ABB red logo on black with slogan  ABB red logo on white with slogan  ABB red logo on black  ABB red logo on white	<b>00:01:00:00</b> <b>ASPECT 4:3</b>  <b>00:01:23:00</b> <b>ASPECT 4:3</b>	   	
<hr/> <b>2 – ABB HQ</b>  ABB Headquarters in the Cityport building Zurich, Switzerland	<b>00:01:43:00</b> <b>ASPECT 4:3</b>	 	
<hr/> <b>3 – FLAGS</b>	<b>00:02:09:00</b> <b>ASPECT 4:3</b>		
<hr/> <b>4 - RESEARCH AND DEVELOPMENT</b>  Power Technologies Research Dättwil, Switzerland  <i>Researching high-voltage current interruption, in which new and innovative elements of high voltage and high current circuit breakers are tested.</i>	<b>00:02:18:00</b> <b>ASPECT 4:3</b>	 	
<hr/> <b>5 – PACKAGING ROBOTICS</b>  Robotics - ABB's packaging and palletizing robots  <i>Robots give consumer good manufacturers more flexibility and speed to customize packaging and shipping to customer needs.</i>	<b>00:02:47:00</b> <b>ASPECT 4:3</b>	 	
<hr/> <b>6 – MANUFACTURING ROBOTICS</b>  Robotics – ABB robots manufacturing ABB low voltage power electronics in Xiamen, China.  <i>ABB robots are capable of coordinating multiple manufacturing steps and coordinating with other ABB robots. ABB software also makes it possible to model manufacturing cells to optimize production flow and identify problems and bottlenecks before actual production begins.</i>	<b>00:03:29:00</b> <b>ASPECT 4:3</b>		
<hr/> <b>7 – PAINTING ROBOTICS</b>  ABB's FlexPainter IRB 5500  <i>ABB's FlexPainter IRB 5500 paint robot uses half the parts of its predecessor, weighs 40 percent less, and is so agile two units can paint a car in seconds. Combined with a new generation of rotary atomizers, ABB's FlexPainter significantly increases productivity on the paint line, while lowering investment and operating costs. FlexPainter also uses less paint, reducing both cost and environmental impact. ABB has already revolutionized robot painting technology by replacing conventional paint tanks and hoses with a refillable cartridge on the robot arm.</i>	<b>00:04:06:00</b> <b>ASPECT 4:3</b>	 	



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## 8 – FLEX PICKER

**00:04:48:00**  
**ASPECT 4:3**



*The FlexPicker from ABB Robotics is the world's fastest pick-and-place industrial robot, handling products at up to two cycles per minute. It offers new opportunities for flexibility and repeatability in the consumer goods and other industries.*

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## 9 - PROCESS AUTOMATION

Billerud Ab  
Gruvön Mill, Sweden

**00:05:04:00**  
**ASPECT 16:9**  
**LETTERBOX**



*ABB's system 800xA, motors and drives deliver enhanced efficiencies and industrial productivity to major pulp and paper customers.*

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## 10 – PROCESS AUTOMATION

Reliance Industries Ltd. control room  
Surat, Gujarat Province, India

**00:06:21:00**  
**ASPECT 4:3**



*ABB automation technology and Industrial IT enabled systems help Reliance Industries to manage complex process variables for textile dyeing.*

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## 11 – AUTOMATION PRODUCTS

Galactica production line, drive assembly  
Helsinki, Finland

**00:06:56:00**  
**ASPECT 4:3**



*A flexible production line for assembling and testing Industrial IT enabled AC drives from 37 kW to 500 kW.*

*Galactica incorporates highly advanced manufacturing technologies including precision robotics from ABB.*

*Each workstation has on-screen instructions for the assembler, featuring text and clearly labeled diagrams. Benefits include: it is paperless, more efficient, improves quality, reduces production time and improves customer service.*

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## 12 – AUTOMATION PRODUCTS

Al Aweer water treatment plant  
Dubai

**00:08:06:00**  
**ASPECT 4:3**



*ABB drives and motors work in unison to provide extremely precise control and energy savings to any application powered by motors, such as water treatment plants, paper mills, power plants and steel mills. ABB drives allow motors to be ramped up or down at the exact speed required, allowing precision control that uses only the energy required, rather than having a constant speed motor which always runs at the same pace.*

*ABB drives and motors also provide interconnectivity with ABB's advanced control system 800xA, allowing energy efficiency to be measured and optimized as a process variable and performance indicator.*

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## 13– AUTOMATION TECHNOLOGIES

Customer Service Centre and showrooms  
Wickliffe, Ohio

**00:08:34:00**  
**ASPECT 4:3**



*ABB provides customers with expert technical assistance and information on products and services.*

*This dedicated call-centre in Wickliffe, Ohio, offers telephone support that provides global expertise and knowledge to ABB customers. Each support request is tracked to ensure a fast response and resolution. The facility also includes a customer demonstration centre equipped with a permanent display of automation and instrumentation products.*

*ABB's comprehensive Industrial IT portfolio of products for process control is supported by two theatre-style viewing areas for "hands on" demonstration for automation customers in many industries.*



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#### 14 – MARINE TECHNOLOGIES

00:11:16:00  
ASPECT 4:3

Azipod Modular Propulsion  
Animation and general views (construction, interior and exterior of cruise liners, etc)



*The ABB Azipod was the first azimuthing podded propulsion system introduced in the market. It blends ABB motors, drives and expertise for state-of-the art electric propulsion for luxury cruise vessels, tankers, icebreakers, offshore and special purpose vessels.*

*The patented ABB Azipod concept is a modular, podded propulsion unit that is fitted outside the vessel and is capable of self-steering over a 360-degree range. Along with superior manoeuvrability, Azipod offers significant reductions in fuel consumption, noise and vibration, while opening up space inside the vessel once required for conventional drive train and rudder components.*

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#### 15 – Computer Integrated Design

00:12:20:00  
ASPECT 4:3

Xiamen, China



*ABB employs the latest technologies to manufacture its own products with designs that integrate quality and energy efficiency.*

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#### 16 – POWER TECHNOLOGIES

00:12:54:00  
ASPECT 4:3

Rosario Mines  
Chile



*ABB supplies electrical and control products and systems to Chilean company, Collahuasi - the world's fourth largest copper producer. The Rosario mines are 4,400 meters above sea level in the Andes mountains, close to the border with Bolivia.*

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#### 17 – POWER PRODUCTS

00:14:07:00  
ASPECT 4:3

Switchgear manufacture and assembly  
Xiamen, China



*Medium-voltage switchgear manufacturing in China, one of the largest ABB production facilities. Medium-Voltage switchgear reduces outage times and improves power quality and control, key to improving operational efficiency of both utility and industrial customers.*

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#### 18 – POWER SYSTEMS

00:14:36:00  
ASPECT 16:9  
LETTERBOX

HVDC



*ABB has supplied some of the world's most powerful high voltage direct current (HVDC) lines, helping make reliable energy available to industry and households with lower environmental impact. The more efficient HVDC lines lose less power in transmission and have a smaller footprint compared to traditional power lines.*

*HVDC allows precise and fast controllability of power flow, which can improve the performance of adjacent AC grids. By interconnecting previously incompatible grids, HVDC enables power sharing across borders in case of emergencies or unanticipated demand increases. HVDC also permits transmission from renewable hydro and wind generation sites over long distances to centers of demand, reducing reliance on fossil-fuel generated power.*

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#### 19 – POWER SERVICES

00:15:04:00  
ASPECT 4:3

Substation installation and commissioning,  
transformer refurbishment and engineering.



*ABB's modular substation and wiring designs make it possible to connect and commission substations in short times, bringing reliable power to remote areas.*

*ABB's experts use sophisticated modern technology to analyze aging power equipment and extend the lifecycle and productivity of 20 or 30 year old transformers beyond their original specifications.*

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## 20 – POWER PRODUCTS

**00:15:39:00**  
**ASPECT 4:3**

Power Transformer manufacturing  
Chongqing, China



*ABB's factory in Chongqing is the group's largest investment in China. Transformers are typically used for power transmission and distribution systems, such as in large substations. Generator transformers as produced in Chongqing are used in power generation when it is necessary to increase power voltage from a power plant for long-distance transmission*

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## 21 – POWER SYSTEMS

**00:16:03:00**  
**ASPECT 4:3**

Semiconductor production  
Lenzburg, Switzerland



*Lenzburg is ABB's center for the production of power semiconductors, a 24-hour factory with two production lines that have a combined output of around 225,000 silicon wafers per annum. These semiconductors are supplied to the power electronics industry, and are the key component in ABB's high-voltage direct current systems*

*ABB in Lenzburg represents state-of-the-art semiconductor manufacturing and employs the newest technologies and the most advanced production techniques and machines. This ensures ABB's power semiconductor devices consistently meet the high performance and quality standards customers demand and rely on.*

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## 22 – POWER PRODUCTS

**00:18:00:00**  
**ASPECT 4:3**

High Power Test Lab and High and Medium voltage production  
Ludvika, Sweden



*Ludvika is a key knowledge and production site for ABB, manufacturing high and medium voltage products and systems. 2,500 employees are involved in the research, development and production of a wide range of products, including:*

- Power Transformers
- Insulation and Components
- HV Products
- Power Systems, AC, HVDC Classic/HVDC Light
- Circuit Breakers (High Voltage/Medium Voltage)

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## 23 – POWER SYSTEMS

**00:19:40:00**  
**ASPECT 4:3**

High Voltage cable production  
Karlskrona, Sweden



*The cables that ABB's customers rely on to distribute large amounts of power across long distances have to be very tough, accurate to the millimetre and long lasting – they often need to be able to operate safely for up to 50 years.*

*The high voltage cables made at Karlskrona can have an insulation of either oil-impregnated paper or polymeric material. The different layers over the insulation can range from thin metal sheets to the most durable steel wires. Whether buried underground or laid on the sea bed these layers protect the twisted copper wire at the heart of the cable - the part that actually conducts the electricity - from the environment, moisture and objects such as anchors and rocks.etc.*

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## 24 – POWER SYSTEMS

**00:20:35:00**  
**ASPECT 4:3**

HVDC marine cable laying  
SWE - POL Link



*One of the recent projects Karlskrona produced was the Swe-Pol link, which supplies Poland with power from Sweden via an undersea cable. The power is converted and leaves Sweden by the specially built converter station at Karlshamn. (see below)*

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## 25 – POWER SYSTEMS

**00:21:13:00**  
**ASPECT 4:3**

SWE - POL converter station.  
Karlshamn, Sweden



*Karlshamn converter stations take high voltage power (e.g., 400kv AC) and, using ABB technology, convert it to Direct Current or DC power which is transmitted through the HVDC cable to a receiving converter station, where it is converted back to AC and fed into the local power grid.*



ABB test laboratory in Bergamo (Italy)

*Increases in the energy and diversity demands of today's industrial power user require very high performance equipment. ABB's laboratory in Bergamo, Italy tests low and medium voltage electronics to very high tolerances for ABB companies around the world.*

*The laboratory uses specially designed generators and transformers to conduct short circuit tests on switchgear at very high levels of power, and advanced technologies like infrared spectrophotometry to test mechanical properties to global standards. ABB test laboratories around the world collaborate closely with ABB design groups to improve the performance and reliability of ABB products while shortening their development time.*

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