企業活動を通じて
Through Corporate Activities

地球といのちのために、半導体ができること
What Semiconductors can do for Life and the Earth

電力消費量の削減に貢献　Contributing to Reductions in Electricity Consumption

エレクトロニクス分野の急成長を背景に電力消費量も世界的に増大しています。
日本では世界の5.4%にあたる年間8,830億kWhの電力を消費しています。これにより、日本では年間3.75億tものCO2を排出していることになります。
弊社では半導体製造メーカーとして、超低消費電力技術を駆使した製品開発・製造を行うことにより電力消費量の削減に貢献していきます。

●世界の電力消費量:年間16兆3,351億kWh(※1)
●日本の電力消費量:年間8,830億kWh(※2)
●日本での使用端電力量1kWhあたりのCO2排出量:0.425kg-CO2(※2)
●温室効果ガスCO2の3.75億tの排出は、東京ドーム約800杯分のドライアイスの量に相当

※1 出所:総務省統計局発行「世界の統計2006年版」より
※2 電気事業連合会発行　2006年度環境行動計画による2005年度実績値

Electricity consumption is increasing all over the world as a direct consequence of rapid growth in the field of electronics.
Japan consumes 5.4% of the world's electricity, which amounts to 883 billion kWh every year. This results in 375 million tons of CO_2 being emitted on an annual basis.
In our role as a manufacturer of semiconductors, we at SANYO Semiconductor develop and manufacture our products using extremely low-power consumption technology, thereby contributing to reductions in electricity consumption.

- Global electricity consumption: 16,335,100,000,000kWh per annum (*1)
- Japan's electricity consumption: 883,000,000,000kWh per annum (*2)
- Amount of CO_2 emitted for each kWh of electricity used in Japan: 0.425kg -CO_2 (*2)
- Emissions amounting to 375 million tons of CO_2 greenhouse gas is the equivalent of enough dry-ice to fill Tokyo Dome approximately 800 times.

*1 Source: National Statistics 2006 issued by the Statistics Bureau, Ministry of Internal Affairs and Communications
*2 Results for Fiscal 2005 Based on the Fiscal 2006 Environmental Action Plan issued by The Federation of Electric Power Companies of Japan

・超低消費電力技術のご紹介　Introduction of Extremely Low-power Consumption Technology

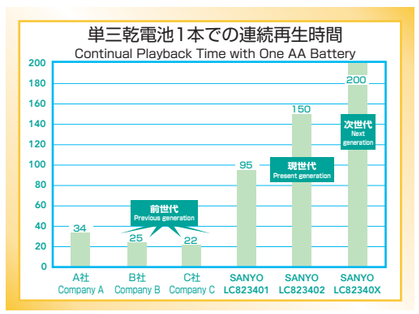
超低消費電力を極めた、三洋のシリコンオーディオ用LSI GokLow™(極Low)シリーズ
SANYO GokLow™ (Ultra-Low) Series IC, which achieved extremely low-power consumption, for use in silicon audio equipment

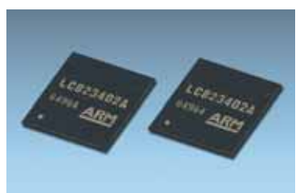
圧縮Audio(MP3等)CODEC(従来品)
Compressed Audio (MP3, etc.) CODEC (Conventional Model)

- **消費電力が大きい(50mW～)**
- **High power consumption (50mW or more)**
- ・DSPによるソフトウェアで実現
- ・Can be implemented with DSP software
- ・動作周波数の低減に限界あり(40MHz～)
- ・Limits how low the operational frequency can be set (40MHz or higher)
- ・製品の電池寿命が非常に短い
- ・Life-span of the battery is extremely short
  (単三電池1本で30時間程度まで)
  (Maximum of approximately 30 hours for one AA battery)

三洋Hard Wired CODEC(GokLow™)
SANYO Hard Wired CODEC (GokLow™)

- **消費電力が小さい(10mW程度)**
- **Low power consumption (approximately 10mW)**
- ・H/W回路にてCODECを実現
- ・CODEC made possible with an H/W circuit
- ・4MHz～16MHzでデコード可能
- ・Decoding possible from 4MHz to 16MHz
- ・製品の電池長寿命化実現
- ・Life-span of the battery maximized
  (単三電池1本で150時間達成次は200時間)
  (150 hours for one AA battery. to be expanded to 200 hours)



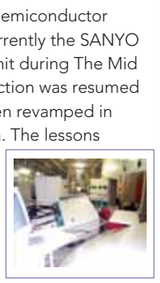


シリコンオーディオ用LSI
LC823402　GokLow™
超低消費電力かつ高音質を実現
ICs for Use with Silicon Audio Equipment
LC823402 GokLow™
Providing extremely low-power consumption and high sound quality

新潟県中越地震で学んだ教訓、対策を広く社会へ紹介
Introducing to Society the Training Programs Created and Countermeasures Learned Following The Mid Niigata Prefecture Earthquake

2004年10月23日、三洋半導体グループの主力工場であった旧新潟三洋電子(株)(現在の三洋半導体製造(株)新潟工場)は新潟県中越地震の直撃を受け生産が停止致しました。懸命の復旧活動によって2ヵ月後には生産を再開し、翌2005年7月にはライン再編によって新たな生産体制を整え復活しました。弊社は、半導体工場としては過去に例をみない激烈な震災体験から得た多くの教訓や考案された地震対策を三洋電機グループ内の会社はもちろん、講演、マスコミ取材協力等によって広く社外に対しても開示しています。

On October 23rd, 2004, one of the most productive of the SANYO Semiconductor Group factories, the former Niigata SANYO Electronics Co., Ltd. (currently the SANYO Semiconductor Manufacturing Co., Ltd. Niigata Plant) took a direct hit during The Mid Niigata Prefecture Earthquake and all production was halted. Production was resumed two months later after frantic recovery activities, and the line was then revamped in July of the following year to operate under a new production system. The lessons learned from this unprecedented and massive earthquake have been used in training programs and suggested damage-prevention measures, and have been distributed not only throughout the entire SANYO Group but also to a wide section of society through lectures, cooperation with journalists and other means.



取材協力　Cooperating with Journalists

震災から1年後の2005年11月、日経BP社発行の半導体技術雑誌「日経マイクロデバイス」で、被災の内容や地震対策を15ページに渡る特集記事として紹介いただきました。取材協力に当たっては、多数の写真を提供し、詳細な状況説明を行いました。

日経BP社　日経マイクロデバイス
2005年11月号
Nikkei Business Publications, Inc.,
Nikkei Microdevices, November 2005

On November 2005, one year after the earthquake, Nikkei Microdevices magazine, dedicated to semiconductor technology and issued by Nikkei Business Publications, Inc., included a 15-page report on the damage received during the earthquake and the countermeasures established. We cooperated fully with the magazine while the story was being researched, providing many photographs and detailed explanations on conditions.

講演活動　Lecture Activities

多くの講演依頼にできるだけ対応し、被災の体験内容や地震対策を紹介しました。
講演会、情報交換会対応実績58件
(民間企業35件、各種協会、
団体23件:2007年10月末時点)

We tried to comply with as many requests for lectures as we could so that we could introduce to people our experiences during the earthquake and the countermeasures we established afterwards.
So far we have taken part in a total of 58 lectures and information-exchange meetings (35 for private corporations and 23 for various cooperatives and organizations as of the end of October 2007).