



September 2013



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Information in the news releases, including product prices and specifications, content of services and contact information, is current on the date of the press announcement, but is subject to change without prior notice.
Source: <http://www.toshiba.co.jp> (if not indicated otherwise)



16st July 2013

Toshiba Unveils New SD Memory Cards Offering World-Fastest Write Speed To launch EXCERIA series compliant with UHS-II

TOKYO—Toshiba Corporation (TOKYO: 6502) today announced that it will launch a new series of SD memory cards offering the world's fastest data write speed. The latest edition to its line-up of EXCERIA memory cards designed to offer users of high-end digital cameras an excellent experience, the EXCERIA PRO™¹ and EXCERIA™¹ cards will be launched in major markets worldwide, starting with Japan in October.



EXCERIA cards compliant with UHS-II will be available in two series. The EXCERIA PRO series will offer photographers a data write speed of 240MB/sec² the world's fastest³, while the EXCERIA series will write at 120MB/sec. They will allow digital camera users to shoot still images continuously at high speed.

The cards are the first in the EXCERIA line-up to integrate a newly developed controller compliant with UHS-II⁴ the ultra high speed serial bus interface defined in SD Memory Card Standard Ver. 4.10, and they achieve significantly higher data transfer speeds than earlier UHS-I compliant cards⁵.

While digital cameras have made huge strides in image quality and versatility, users have long wanted to see improvements in data transfer rates and write times, so as to be able to take bursts of photographs in quick succession. This demand has grown increasingly strong as high performance digital single-lens reflex cameras and mirrorless interchangeable-lens cameras have gained popularity and moved into the mainstream. Further advances in higher resolution image recording (including 4K2K video), will also fuel demand for transfers of data-rich images at high speed.

Looking to the future, Toshiba, a world leader in the NAND flash memory business, will continue to meet market demands by enhancing its line-up of UHS-II compliant SD memory cards.

Notes:

[1] EXCERIA PRO™ and EXCERIA™ are trademarks of Toshiba Corporation.

[2] Maximum data writing speed may vary depending on the host device and file size.

[3] As of July 2013

[4] UHS-II is the ultra high speed serial bus interface in SD Memory Card Standard Ver4.10 that delivers data at 156MB/s by single lane access and 312MB/s by dual lane access.

[5] EXCERIA Type 1 SD-GU032G1 (32GB)
Read Speed: 95MB/s, Write Speed: 90MB/s





18th July 2013

International Team comes together to Study Demand Response Impacts at New Mexico Utility

ATLANTA & TOKYO — July 18, 2013 – Toshiba Corporation and Landis+Gyr team up with Japan's New Energy and Industrial Technology Development Organization (NEDO), the University of Kyoto, and Los Alamos County to study demand response pricing programs. Utilizing smart meters and customer volunteers, the partners will study how consumers respond to variable pricing per kilowatt hour and how this impacts their electric demand during the summer months. The research will begin in late July and run through September.

The demand response pricing research is a component of the U.S.-Japan Demonstration Smart Grid Project in Los Alamos. Constructed for a consortium of partners representing NEDO, Los Alamos County, and Los Alamos National Laboratory, the smart grid test bed demonstrates high penetration of renewable energy on an electric grid to meet a residential community's needs. This includes understanding what influences customers to reduce electric consumption during peak-times when electricity is more expensive and not always available from renewable resources.

The study will measure the impact variable pricing has on customers' behaviors and energy consumption, deploy renewable generation and energy storage to respond to the electric demand, and assess the overall efficiency. The goal is to understand the effects of pricing models and messages on households. Collection of energy usage data, weather forecasts and stored energy capabilities, coupled with analysis of customer behavior, is expected to provide insights that will help define the future of responding to consumers' electric demands and improving energy efficiency programs.

"As the world population increases toward a projected total of more than 9 billion by 2050, concerns about reliable, clean generation to meet growing energy requirements will remain at the top of the energy policy agenda for current and future generations," said Takeshi Yokota, Executive Officer, Corporate Vice President of Toshiba. "To ensure prosperous and healthy places to live, communities, like Los Alamos County, will need to embrace innovative technologies and renewable energy on scales never seen before. Communities of the future will increasingly rely on advanced smart grids for seamless integration of renewable energy sources and variable pricing to supplement traditional generation sources."





International Team comes together to Study Demand Response Impacts at New Mexico Utility

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The demonstration smart grid project leverages renewable generation and storage solutions including a one Megawatt (MW) solar array, a sodium sulfur battery and lead acid batteries for a combined storage capacity of nearly two MWs of electricity. Electric loads are balanced and output fluctuations are absorbed through Toshiba's Micro Energy Management System (μ EMS) that predicts electric demands and weather. In the study, the Micro Energy Management System will initiate demand response events when demand and temperature are met for a variable pricing day.

The Landis+Gyr Gridstream solution, including approximately 820 advanced smart meters, the associated mesh communications network as well as leading edge software capabilities provided by both the Command Center Head-End System and Gridstream Meter Data Management System will support the study.

Landis+Gyr and Toshiba's solutions, integrated using the International Electrotechnical Commission – Common Information Model (IEC-CIM) version 2.0 family of standards, will predict high demand days and manage the demand response message communication to the customer while measuring changes in usage patterns during each variable pricing event.

"Support for open standards will enable Los Alamos County to deploy a completely integrated solution that leverages grid automation for forecasting and measuring consumer response to the pricing events," said Richard Mora, Landis+Gyr's President and CEO for the Americas. "Combining renewable generation and battery storage, with the intelligence of a smart grid platform, will allow Los Alamos County to demonstrate a critical ingredient necessary for establishing their future smart community program."

For more information about the DR study, visit the [Los Alamos County public utility programs web page](#).





19th July 2013

Toshiba to Collaborate with ENEA, an Italian National Agency to Study Energy Management in Europe

Signed agreement aimed at improving management of grid integrating renewable power sources

TOKYO — Toshiba Corporation (TOKYO:6502) today announced that Toshiba Transmission and Distribution Europe S.p.A. (TTDE), an Italian Toshiba Group company, has signed an agreement for the joint development of energy management systems optimized for the eurozone with ENEA, the Italian National Agency for New Technologies, Energy and Sustainable Economic Development. The agreement covers wide range matters including energy efficiency, renewable energy sources, smart grids, electric storage for the grid and electric mobility (e.g.: Micro Energy Management System - μ EMS¹, rechargeable battery systems, innovative PV technologies).

Europe accounts for approximately 70% of the electricity produced by photovoltaic generation (PV) in the world, and continues to lead other regions in the introduction of renewable energy sources. This is particularly true of Italy, where growth in renewable is stimulating demand for grid management systems to manage power fluctuations in areas that have introduced PV intensively, and to overcome the inability to transmit wind generated power due to insufficient transmission capacity.

Toshiba has participated in many proof-of-concept demonstrations of smart grid technologies around the world, including Rome, the Italian capital, Lyon in France and Los Alamos in Arizona in the U.S. Drawing on its long-standing capabilities and the expertise obtained in these and other projects, combined with local information collected by ENEA at its research facilities throughout Italy, Toshiba will work with TTDE to propose optimal energy solutions such as grid stabilization with μ EMS and frequency control and adjustment by introducing rechargeable batteries for localized grid balancing.

"Toshiba is building a strong presence in next generation T&D in Europe," said Takeshi Yokota, Corporate Vice President of Toshiba. "We acquired TTDE, the former Ansaldo T&D², in March 2011, and in December 2012, Toshiba and TTDE won an engineering, procurement and construction contract from Terna³ for a high voltage and direct current power conversion system. In July 2011, we acquired Landis+Gyr, the world leader in smart meters, and earlier this month we acquired a majority interest in cyberGRID, an Austrian developer and provider of intelligent energy management solutions. We have all the capabilities required for a successful collaboration with ENEA. We will customize our state-of-the-art technologies for the European market through collaboration with ENEA and boost our grid solution business in Europe."

1 A system for monitoring and controlling grids

2 An Italian power transmission and distribution engineering firm

3 Terna Rete Italia S.p.A., a transmission system operator





25th July 2013

Toshiba and 1Malaysia Development Berhad to Collaborate in Introducing Carbon Ion Radiotherapy System to Malaysia

PUTRAJAYA – Toshiba Corporation and 1Malaysia Development Berhad (1MDB), a strategic development company wholly owned by the government of Malaysia, today signed a memorandum of understanding (MoU) under which they will explore the introduction of Toshiba's carbon ion radiotherapy system to Malaysia.

The signing ceremony was held today in the presence Mr. Shinzo Abe, the Prime Minister of Japan and Dato' Sri Mohd Najib Tun Abdul Razak, the Prime Minister of Malaysia.

The MoU covers two phases: an initial evaluation of the feasibility of the overall project followed by a study of the design concept. The MoU was signed within the framework of medical infrastructure package export strategy that the Japanese government is promoting in a public-private partnership.

"Carbon ion radiotherapy is a powerful tool in the battle against cancer, and we look forward to the opportunity to introduce our state-of-the-art system technologies to Malaysia," said Yasuharu Igarashi, Corporate Executive Vice President of Toshiba.

"We will work closely with 1MDB on this project and look forward to reaching conclusion that will bring the benefits of advanced medical treatment to the people of Malaysia."

1MDB aims to help create a sustainable Malaysian economy by investing in high impact projects in four core sectors: real estate, energy, tourism and agriculture. It is the master developer of financial and economic centre Tun Razak Exchange and is the second largest independent power producer in Malaysia.

"This project dovetails with our mandate to bring new sources of growth to the country," said Mohd Hazem Abd Rahman, Managing Director and CEO of 1MDB.

"It offers us the potential to expand into another of our key target sectors via medical tourism, while breaking new ground in treatment of cancer for the Malaysian public."

Malaysia's economic growth and development continues to progress, with per-capita nominal GDP passing the US\$10,000 mark in 2012. This has spurred increasing interest in high-tech medical services, both in the domestic sector and to promote a continued increase in medical tourism, which is expected to become a US\$200 million market in Malaysia this year.





Toshiba and 1Malaysia Development Berhad to Collaborate in Introducing Carbon Ion Radiotherapy System to Malaysia

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There are currently only six^(*) carbon ion radiotherapy centers in operation in the world – three in Japan and one each in China, Germany and Italy. Five^(*) new centers are under construction – two in Japan and China respectively and one in Austria.

Toshiba is a recognized leader in carbon ion radiotherapy. In Japan, the company has installed a cutting-edge system in the National Institute of Radiological Sciences (NIRS), which takes the lead in developing and promoting carbon ion radiotherapy in Japan, and has also received an order from Kanagawa Cancer Center in Yokohama, which it is now fulfilling.

Carbon ion radiotherapy accelerates carbon ions to 70% the speed of light speed and directs them to cancerous cells. It is efficient at destroying cancers, which means patients have to endure fewer exposures. Another advantage of carbon ion radiotherapy is that the depth of the energy peak can be controlled, preventing exposure of healthy cells around the target site.

Toshiba and 1MDB signed a comprehensive MoU to investigate areas of possible collaboration in social infrastructure in October 2012. The carbon ion radiotherapy project is one of the fruit of this understanding. The two companies will continue to investigate potential areas of cooperation that will contribute to Malaysia's economic development.

(*) Source: Particle Therapy Co-Operative Group (PTCOG)

About 1MDB

1MDB is a strategic development company leading market-driven initiatives to help transform Malaysia into a thriving economy – one that is highly competitive, inclusive and sustainable. Wholly-owned by the Government of Malaysia, 1MDB creates high-impact business opportunities to forge international partnerships through equal-capital joint ventures in game-changing projects. For more information about 1MDB, please visit www.1mdb.com.my.





26th July 2013

Toshiba to Implement Reforms to Improve Profitability in Digital Products Business

TOKYO—Toshiba Corporation (TOKYO: 6502) today announced that it will implement further structural reform of its LCD TV and PC businesses to accelerate profit-focused resource allocation and to establish an asset-light management strategy that reduces fixed costs, improves profitability and strengthens business foundations.

Toshiba will execute these measures immediately, and will also follow up with structural reforms in this fiscal year, including a review of production and a reform of sales operations in Japan and overseas.

Background

Last year, Toshiba transferred the LCD TV design and development function from Fukaya Complex in Saitama prefecture to Ome Complex in western Tokyo, Toshiba's development hub for PC and tablets. Concurrently, Toshiba concentrated technical service operations for LCD TVs in Fukaya Complex to a group subsidiary.

Despite these efforts, Toshiba has recorded losses in the LCD TV business for 2 consecutive years, the result of continuing lower demand in Japan following the completion of the transition to terrestrial digital broadcasting, yen depreciation and price reductions in the global market, and lower demand in the sluggish economies of Europe. In addition, the PC market is expected to see lower demand, reflecting the growing popularity of smartphones and tablets.

In these circumstances, Toshiba will promote a new round and continuing structural reform of its LCD TV and PC businesses, aiming to see positive figure in the Digital Products business in the second half of 2013.

Objective

Toshiba plans to increase sales and profit by accelerating profit-focused resource allocation and establishing a business strategy to reduce fixed costs, improve profitability and strengthen the business foundations. It will also seek to promote sales in emerging markets, focusing on B2B business and developing high value-added products.

In order to accomplish these plans, Toshiba will reorganize its Digital Products & Services Company, aiming to speed up decision making, and concentrate human resources into selected businesses.

Through these measures, plus the structural reforms that it initiated last year, Toshiba plans to reduce fixed costs in the LCD TV and PC businesses by approximately 10 billion yen in FY 2013 and approximately 20 billion yen in FY 2014, against FY 2012, and by doing so establish the sound business foundations required to win against global competition.





Toshiba to Implement Reforms to Improve Profitability in Digital Products Business

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Measures

1. Profit-focused resource allocation

LCD TV

(1) In sales, Toshiba will accelerate resource allocation and hone its market focus, including its business in emerging markets. The company expects to generate 30% of its sales in emerging markets in FY2012 and to boost this figure to approximately 40% in FY2013

(2) In terms of products, Toshiba will expand its line-up of high value-added products in the global market, including large screen 4K LCD TVs, promote the provision of cloud services, and continue to reinforce development of local-fit products in emerging economies. Toshiba will also strengthen its B2B business, including digital signage and LCD TVs for specific sectors, such as hotels and hospitals, and will seek to raise B2B sales to approximately 10% of all sales in FY2014

(3) Toshiba will draw on its wide-ranging know-how to diffuse its technologies into new business areas, including bringing glasses-free 3D TV technology into medical business.

PC

(1) Toshiba will accelerate resource allocation to expand business in emerging markets and B2B business and transform B2C focused business foundation. Sales in emerging markets are expected to rise from approximately 30% in FY2012 to approximately 40% in FY2013, and B2B sales are expected to rise from approximately 20% to approximately 40% in the three years of FY2012 to FY2015

(2) Toshiba will launch a new line-up enterprise products that offer improved security and mobility, and that provide solutions, including energy savings and lower cost asset management, through its client manager utility. The company will also promote business in the education and healthcare markets, in both hardware and software. In addition, the company will integrate its solutions businesses and seek to promote new business relationships with major clients.

(3) In the B2C market, Toshiba will launch strategic high value-added products, such as an Ultrabook™ with an advanced handwriting function, and expand direct sales through its online shopping site, Toshiba Direct, laying the foundations for more diversified sales channels and long-term profitability.





Toshiba to Implement Reforms to Improve Profitability in Digital Products Business

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2. Asset-light management strategy

LCD TV

(1) Toshiba will promote global standard product design and reduce costs in development and design by reducing the number of product platforms from 14 in FY 2012 to 9 in FY2013, and the number of models from 115 models to 67 models in the same timeframe.

(2) Toshiba will reduce costs by reducing the number of global original design manufacturers (ODMs) to 1/3 and also promote selection of in-house manufacturing or ODM for individual products.

(3) Toshiba will tighten up control of inventories and logistics costs by improving operating processes from manufacturing through to distribution.

PC

(1) Toshiba will tighten up control inventories and logistics costs by improving operating processes from manufacturing through to distribution.

(2) Toshiba will streamline and speed up development by reducing the number of product platforms and models, and will reduce the number of platforms from 20 in FY2012 to 15 in FY2013

3. Human resource allocation to focused business

Toshiba will transfer approx. 400 employees, 20% of the total staff working in the LCD TV and PC businesses in Japan, from the design, sales and administrative departments of the LCD TV and PC businesses in Japan to social infrastructure businesses within this fiscal year.

4. Organizational reform

Toshiba will reform the organization of its in-house company, the Digital Products and Services Company on August 1, 2013. The company introduced a regional division system in 2011. While leveraging synergies generated by its regional business operations, the company will reform its operations into three divisions: the "Visual Solutions Division" that includes LCD TVs and Blu-ray disc players and recorders; the "Personal Solutions Division" that includes PCs and tablets, and the "Business Solutions Division" that includes B2B businesses. The company aims to promote business by rightsizing its organization and speeding up business decisions, and also aims to cultivate a B2B business and promote strategic business evolution through a specialist organization.





31st July 2013

Toshiba and Amkor Technology Complete Amkor's Acquisition of Toshiba's Malaysian Semiconductor Packaging and Test Operations

Tokyo, Japan & Chandler, Ariz. — July 31, 2013 — Toshiba Corporation (TOKYO: 6502) and Amkor Technology, Inc. (Nasdaq: AMKR) today announced that the companies have completed Amkor's acquisition of Toshiba Electronics Malaysia Sdn. Bhd. ("TEM"), Toshiba's semiconductor packaging operation in Malaysia. The transaction also includes Toshiba's license to Amkor of related intellectual property rights and a manufacturing services agreement between Toshiba and Amkor.

Under the manufacturing services agreement, Toshiba has agreed to purchase and TEM has agreed to supply packaging and test services for certain discrete semiconductor products and analog LSI products.

Established in 1973, TEM has steadily expanded the scale of its packaging operations, primarily of discrete and analog semiconductors. In recent years, its main product has been power semiconductors.

Toshiba positions power semiconductors as a driver of growth for its semiconductor business and seeks to maximize cost competitiveness across its front- and back-end operations. Transferring ownership of TEM to the Amkor group will allow TEM to take full advantage of Amkor's large scale production and materials procurement capabilities and boost the overall efficiency of its power semiconductor operations.

Toshiba will continue to subcontract power semiconductor packaging and test to Amkor as an important source of key products. As it does so, Toshiba will shift its focus and resources to front-end wafer fabrication for power semiconductors by reinforcing production capabilities at Kaga Toshiba Electronics Corporation, Toshiba Group's discrete semiconductor production facility in Ishikawa Prefecture, Japan.

Amkor expects the transaction to further strengthen its relationship with Toshiba and to grow its semiconductor packaging and testing business. Amkor plans to leverage the technology and scale of this new factory to attract leading power discrete customers to Amkor.





Toshiba and Amkor Technology Complete Amkor's Acquisition of Toshiba's Malaysian Semiconductor Packaging and Test Operations

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About Toshiba

Toshiba is a world-leading diversified manufacturer, solutions provider and marketer of advanced electronic and electrical products and systems. Toshiba Group brings innovation and imagination to a wide range of businesses: digital products, including LCD TVs, notebook PCs, retail solutions and MFPs; electronic devices, including semiconductors, storage products and materials; industrial and social infrastructure systems, including power generation systems, smart community solutions, medical systems and escalators & elevators; and home appliances.



Toshiba was founded in 1875, and today operates a global network of more than 590 consolidated companies, with 206,000 employees worldwide and annual sales surpassing 5.8 trillion yen (US\$61 billion). Visit Toshiba's web site at www.toshiba.co.jp/index.htm



About Amkor

Amkor is a leading provider of semiconductor packaging and test services to semiconductor companies and electronics OEMs. More information on Amkor is available from the company's filings with the Securities and Exchange Commission filings and on Amkor's website: www.amkor.com.



Forward-Looking Statement Disclaimer

This announcement contains forward-looking statements within the meaning of federal securities laws. All statements other than statements of historical fact are considered forward-looking statements including, without limitation, statements regarding Amkor's relationship with Toshiba, the growth of Amkor's business, Amkor's presence in the power discrete market and demand for Amkor's services. These forward-looking statements involve a number of risks, uncertainties, assumptions and other factors that could affect future results and cause actual results and events to differ materially from historical and expected results and those expressed or implied in the forward-looking statements, including, but not limited to, the following: the ability of Amkor to successfully integrate TEM and to achieve expected benefits; the level of demand for outsourced assembly and test services for power discretes, and the ability of Amkor to leverage the technology and scale of TEM to attract other leading suppliers in the power discrete segment. Other important risk factors that could affect the outcome of the events set forth in these statements are discussed in Amkor's Annual Report on Form 10-K for the year ended December 31, 2012, and in its subsequent filings with the Securities and Exchange Commission made prior to or after the date hereof. Amkor undertakes no obligation to review or update any forward-looking statements to reflect events or circumstances occurring after the date of this announcement.





1st August 2013

Toshiba Achieves World First with Successful Operation of Novel Combustor for New, Low Cost, Low Emissions Thermal Power System

Major step towards affordable thermal power generation with little-to-no air emissions

TOKYO—Toshiba Corporation (TOKYO: 6502) today announced the successful testing of a first-of-its-kind combustor to be used in a breakthrough thermal power generation system that produces low-cost electricity and little-to-no air emissions.

Step-by-step testing of the new combustor was initiated at a facility in California in January 2013, to confirm and demonstrate its operation within the new generation system's required environment: never before demonstrated high operating pressure and temperature, plus a unique combustion mixture of oxygen, natural gas and a high concentration of CO₂. In July, the test program broke new scientific ground by confirming stable operation at the system's target pressure of 300 atmospheres, fully confirming Toshiba's design*.

The new thermal power plant uses a supercritical carbon dioxide (CO₂) working fluid to produce very low-cost electricity while cutting emissions of nitrogen oxides (NO_x), CO₂, and other pollutants. CO₂ is separated and collected at high-pressure without requiring additional carbon capture equipment or processes, enabling full carbon capture without increasing the cost of electricity. The captured CO₂ can be subsequently sequestered or used for enhanced oil recovery (EOR), a well-proven process for dramatically increasing the production of mature oil fields. The result is affordable power generation without atmospheric emission of harmful greenhouse and other polluting gases.

The system operates at a very high pressure of 300 atmospheres, and the development of its key equipment – a new combustor and its related turbine – was a critical challenge. Toshiba met that challenge by applying its high-temperature, high-pressure combustion and cooling technologies to the design, development and manufacture of a novel, supercritical CO₂ combustor and turbine for the power system.

The recent successful testing of the combustor is a major step towards the realization of this important and disruptive power system, and positions Toshiba as a global leader in the development of turbo-machinery for supercritical CO₂ power plants. Toshiba will continue testing to generate additional new data while further demonstrating the operability of the combustor.

Toshiba is developing the system with three leading U.S. companies: NET Power LLC, the lead developer of the new power system; Chicago Bridge & Iron Company, a global engineering and construction provider; and Exelon Corporation, the leading competitive energy provider in the U.S. The four companies intend to demonstrate this emission-free system with a 25MW natural gas pilot plant in 2015 and a 250MW full-scale natural gas commercial plant by 2017.





Toshiba Achieves World First with Successful Operation of Novel Combustor for New, Low Cost, Low Emissions Thermal Power System

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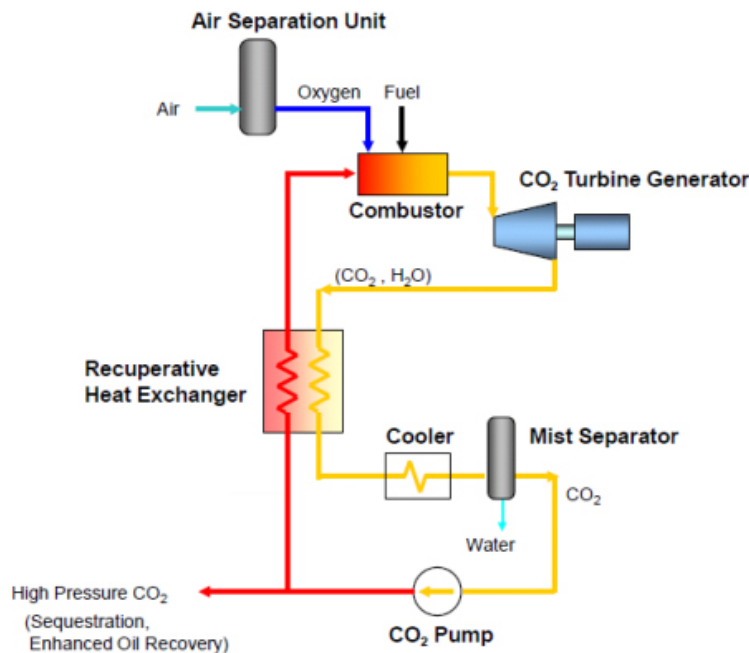
Toshiba and its partners will promote sales of this new power system worldwide, with a special focus on the U.S. and the Middle East, where there is strong demand for EOR. Going forward, Toshiba will continue to contribute to the improvement of the power cycle, including its integration with coal gasification plants, as a major part of its commitment to the mitigation of climate change by supplying environmentally friendly power generation systems.

* The combustor was engineered and manufactured in cooperation with Parametric Solutions Inc. (PSI), a US based gas turbine components engineering firm.

Outline of New Thermal Power Plant System

The new plant burns a mixture of natural gas and oxygen combined with CO₂ to produce a working fluid gas, a mix of mainly CO₂ and H₂O, that is used to drive the turbine generator. This working fluid is then cooled through a heat exchanger and H₂O is separated from it to create a nearly-pure CO₂ stream. The CO₂ stream is pressurized and a major part of this flow is fed back to the combustor to begin the cycle anew. The remaining part of the CO₂ flow can easily be collected and put into a pipeline for storage or sequestration without increasing the power plant's cost of producing electricity.

Conceptual Image of New Thermal Power Plant System





2nd August 2013

Toshiba Selected by Japan's NIRS to supply World's First Rotating Gantry with Superconducting Magnets for Carbon Ion Radiotherapy **Higher accuracy in therapy, lower burdens on patients**

TOKYO—Toshiba Corporation (TOKYO:6502) today announced that it has received an order from Japan's National Institute of Radiological Sciences (NIRS) for the world's first rotating gantry irradiation system with superconducting magnets for a carbon ion radiotherapy system. The system will be installed in a new radiotherapy room that NIRS is constructing at its facility in Chiba, east of Tokyo, in March 2015.

Carbon ion radiotherapy accelerates carbon ions to about 70% of the speed of light and directs them to cancerous tissues. It is two to three times more efficient at destroying cancerous tissues than proton radiotherapy, which means patients have to endure fewer exposures. Another advantage over photon therapy is that the depth of the energy peak can be controlled, preventing exposures of healthy tissues around the target site. Cancer centers in Japan and overseas are interested in developing the radiotherapy as an effective tool for battling cancer, and Toshiba is supporting this by promoting research into system advances.

The current order covers the beam transport system equipment, the rotating gantry and other equipment for the radiotherapy system, including a robotic-arm type patient couch.

A rotating gantry is a device that rotates the radiation port in a 360-degree circle and reduces both patient stress and treatment time, since the patient can be irradiated from any direction without any change of the position.

Rotating gantries are already in practical use in proton radiotherapy devices. Since carbon ion radiotherapy emits beams with a higher energy level, the rotating gantry needs to be significantly bigger, and it is essential to develop downsize the gantries to make them available for practical use.

Toshiba has achieved a much smaller rotating gantry design by employing superconducting magnets. The company has developed a superconducting magnet for bending the beam, and a superconducting 4-pole magnet for focusing it. The magnets have a high current density, dozens of times stronger than conventional type, and this generates an intense magnetic field that bends the beams in a smaller radius. This approach has secured weight and size reductions against designs based on conventional magnets: a length of 13 meter against 25 meters, and a 50% cut in estimated weight. Adoption of superconducting magnets has also attracted attention for securing lower electricity consumption.





Toshiba Selected by Japan's NIRS to supply World's First Rotating Gantry with Superconducting Magnets for Carbon Ion Radiotherapy

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Toshiba has already installed a carbon ion irradiation system for NIRS, which is taking the lead in developing and promoting carbon ion radiotherapy in Japan, and received an order for a complete carbon ion radiotherapy system, including the accelerator, from the Kanagawa Cancer Center in Yokohama in January 2012. Going forward, Toshiba will promote healthcare-related businesses, including its current medical diagnostic imaging business, as a potential core business alongside energy systems and semiconductors.

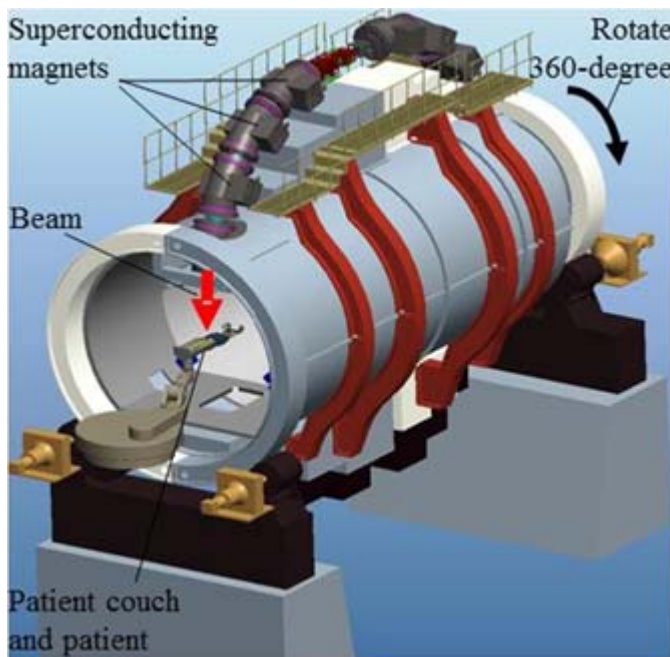


Image of the treatment room

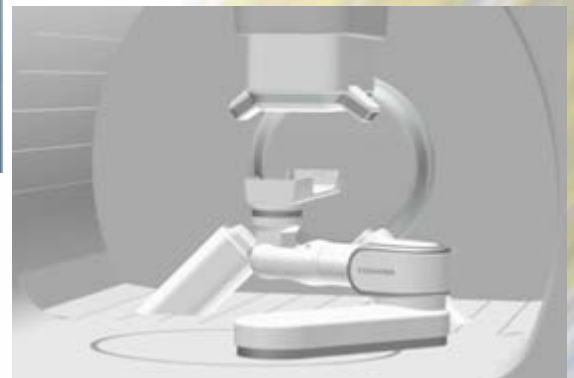


Image of the rotating gantry



5th August 2013

Toshiba to Strengthen Power System Business in Turkey

TOKYO, JAPAN — Toshiba Corporation (Tokyo: 6502) today announced the start of operations of Toshiba Infrastructure and Electronics A.S. (TAET), a wholly owned sales subsidiary based in Istanbul, Turkey. TAET replaces a former marketing subsidiary established in September 2010 and is responsible for boosting sales promotions of thermal, hydro, wind and solar photovoltaic power systems in Turkey and the surrounding region.

Turkey's economic expansion has caused demand for electricity to grow at an annualized rate of 6% in recent years. The government has responded with plans to double generating capacity to 125GW by 2023.

Toshiba will offer a comprehensive line-up of power generation technologies including high efficiency thermal power systems and geothermal power systems, where the company holds the world No. 1 market share. In hydro power system Toshiba has experiences in turkey dating back to 1978.

Going forward, TAET will expand business by promoting cooperation with local partners, seeking to reinforce its capital base. Toshiba positions TAET as a sales and procurement base of power systems for a territory covering Turkey and its neighbors and targets sales of 400 million dollars in FY2017.

Outline of TAET

1. Name:	Toshiba Infrastructure and Electronics A.S. (TAET)
2. Representative:	Yoshihide Yanagihara
3. Location:	Istanbul, Turkey
4. Businesses:	Thermal, hydro, geothermal, wind and solar photovoltaic power generation systems





23rd August 2013

Toshiba Starts Second Phase Construction of No. 5 Semiconductor Fabrication Facility at Yokkaichi

Yokkaichi, Mie, Japan — Toshiba Corporation (Tokyo: 6502) today held a groundbreaking ceremony in readiness for the start of construction of Phase 2 of Fab 5, the company's state-of-the-art fabrication facility (fab) at its Yokkaichi Operations memory production facility in Mie Prefecture.

Toshiba will expand Fab 5 to secure manufacturing space for NAND flash memories fabricated with next generation process technology and for 3D memories. Construction will be completed in summer next year, and decisions on equipment investments and production levels will reflect market trends.

Three fabs at Yokkaichi Operations currently mass produce NAND flash memories, including Fab 5 phase 1. Fab 5's construction was planned around two phases, the first of which went into operation in July 2011. After giving careful consideration to the balance of product supply and demand, and noting a recovery driven by growing demand for smartphones, tablets, SSD for enterprise servers, Toshiba now anticipates further medium- to long-term market expansion and recognizes that the time is right to expand Fab 5.

Going forward, Toshiba will expand business and boost competitiveness by leadership in advanced process technology and the development of new generation memories that answer market needs.





Toshiba Publishes English Edition of CSR Report 2013

TOKYO — Toshiba Corporation (TOKYO:6502) today announced that the English edition of the Toshiba Group Corporate Social Responsibility Report 2013, a comprehensive account of Toshiba Group's latest CSR activities, is now available at:

<http://www.toshiba.co.jp/csr/en/index.htm>

Toshiba has published the report since 2004 as a mean to provide the company's stakeholders with an authoritative resource on Toshiba Group's CSR policies, plans, programs and activities; this is the 10th edition. The Report is complemented by Toshiba's CSR website, which reports the latest news and provides video coverage of major activities.

The CSR Report 2013 can be downloaded as a PDF from Toshiba's CSR website, and readers can make their own version by selecting the topics they want to read.

As it has since 2010, reports follow the order of the seven core subjects defined by the ISO 26000 Guidance on social responsibility. Beyond that, the report also covers Toshiba's approach to CSR management and human rights issues in the supply chain, which stakeholders have identified as areas of high interest, and identifies priority themes for each of Toshiba Group's business domains, from the perspective of ISO 26000 core subjects and social challenges.

Toshiba's CSR website provides many links to related information, plus video features that present CSR activities in more detail. A recent addition covers "Minamisoma Solar Agri-Park", a reconstruction project in the area hit by the Great East Japan Earthquake.

Toshiba Group strives to constantly act with unshakable integrity and aims to continue to be trusted as a "corporate citizen of planet Earth."

The Japanese edition of Toshiba Group Corporate Social Responsibility Report 2013 is also available online at: http://www.toshiba.co.jp/csr/jp/index_j.htm

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2013 | **CSR Report**
Corporate Social Responsibility Report





Toshiba Publishes English Edition of CSR Report 2013

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1. Outline of Toshiba Group CSR Report 2013

(1) Published: August 2013

(2) The Report can be downloaded from the following site:

<http://www.toshiba.co.jp/csr/en/report/download.htm>

(3) Main content:

(a)

Highlights of CSR activities

- Realization of Smart Communities
- Support for recovery from the Great East Japan Earthquake
- CSR management in the supply chain including Toshiba's action to conflict minerals issue

(b)

CSR performance reports

CSR performance reports are grouped according to the seven core subjects of ISO 26000: organizational governance, human rights, labor practices, the environment, fair operating practices, consumer issues, and community involvement and development. Toshiba Group's major achievements and KPI plans are covered.

(c)

Stakeholder engagement

A dialogue with Asia-Pacific representative of BSR, a U.S. CSR promotion organization, on issues to be addressed by Toshiba Group.

* Other reference guidelines

The Report follows the Sustainability Reporting Guidelines, Ver. 3.1, published by the Global Reporting Initiative

2. CSR Website

Details of Toshiba Group's CSR activities can also be found on the CSR website:

<http://www.toshiba.co.jp/csr/en/index.htm>





29th August 2013

Toshiba Celebrates Opening of New Semiconductor Facility in Thailand To relocate discrete assembly to new site

Bangkok, Tokyo—Toshiba Corporation (TOKYO: 6502) today announced that its Thai-based Group company, Toshiba Semiconductor (Thailand) Co., Ltd.(TST), has completed its relocation to a new semiconductor manufacturing facility and started mass production, marking the company's full recovery from the devastating flooding of 2011.

The new factory is some 140km north-east of Bangkok, a state-of-the art facility in the 304 Industrial Park in Prachinburi. Construction started in July 2012, limited production began this April, and the facility is now operating at its current target capacity. At 1.4 times the size of the flood-damaged plant, the new facility and its cutting-edge production equipment will allow TST and Toshiba Group to secure greater operating efficiency and higher productivity, while at the same time offering room for expansion that will allow the company to respond quickly and flexibly to growth in market demand.

TST carries out back-end processes, the assembly and packaging of small signal devices and photocouplers, both product areas where strong demand growth is anticipated. Small signal devices control current and voltage in digital consumer products and are essential components of such popular products as smart phones and tablets, and photocouplers are widely used in industrial products, including inverters.

Commenting on the new plant, Mr. Yasuo Ashizawa, president of TST said, "We are all delighted that the new plant is now up and running. I thank the Thai authorities for all the support we have received for our relocation, the construction company for its dedication and efficiency, and, most of all, our employees, who have stayed with, made the move to this new plant and made every effort to get it up and running. We have rebuilt capacity with more modern, more productive equipment, and we look forward to supporting a new round of expansion in Toshiba Group's discrete business."





Toshiba Celebrates Opening of New Semiconductor Facility in Thailand

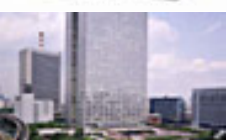
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TST was forced to halt production in October 2011 when its factory in the Bangkadi Industrial Park in Patumtani, immediately north of Bangkok, was inundated by flood waters. During this forced suspension of operations, Toshiba transferred production to its facilities in Japan and Malaysia, and utilized outsourcing. With the opening of the new TST facility, Toshiba plans to gradually reintegrate these relocated operations.

Toshiba Group is revitalizing its discrete device business by boosting efficiency to secure improved profitability. Measures to date include adopting to larger wafers and securing higher output in the front-end process, and accelerating the overseas transfer of the back-end process. The new TST facility will improve cost competitiveness in the back-end process, strengthen the bottom line and contribute to the overall strength of the discrete business unit.

Outline of Toshiba Semiconductor (Thailand) Co., Ltd.

Location:	Prachinburi Prefecture, Thailand
Employees:	Approx. 500
Established:	October 1990
Representative:	Yasuo Ashizawa, President
Site Area:	Approx. 135,000m ²
Floor area:	Approx. 40,000m ²
Production item:	Discrete semiconductors (small signal devices, photocouplers)





29th August 2013

Toshiba Announces New TV Strategy with Introduction of TVs Designed to Provide a Truly Exciting Viewing Experience

Singapore—Toshiba Corporation today announced its new strategy for driving growth in ASEAN and underlined its commitment to the fast growing region with the launch of the Toshiba "Pro Theatre", a new line-up of LED TVs designed to provide viewers with a truly exciting viewing experience.

Toshiba positions growth in the ASEAN economies as the cornerstone of its strategy. By providing a broad range of high-value products that are closely attuned to the demands and changing lifestyles of the ASEAN countries, Toshiba aims to achieve more than 20% market share in unit terms in this region by the end of Fiscal Year 2014. The Toshiba "Pro Theatre" line-up is the first step to achieving this goal.

"The core value of TVs is how we can maximize the excitement that viewers get from the large screen. That's 'the entertainment power of TV,'" said Shigenori Tokumitsu, President of Digital Products & Services Company, an in-house company of Toshiba Corporation. "Movies give us our most immersive viewing experiences because viewers can feel the passions and thoughts that the writer, director and film crew make a stunning reality. We want to do the same with the 'Pro Theatre' TVs. Using our superb image processing technologies, we want to offer them as the 'Best TVs for Watching Movies'".

Toshiba will launch three new series of 'Pro Theatre' in the ASEAN market: the flagship L9300 Series; the L4300 series, Toshiba's first TVs with the Android™ operating system; and the L3300 series featuring "Turbo LED" and "Detail Booster".

All of the TVs in the "Pro Theatre" line-up feature "Intelligent Auto View", a new technology that monitors room brightness, and other aspects of the viewing environment. It then automatically adjusts picture parameters such as color temperature, color depth, sharpness, and backlight. Meticulous fine tuning of these characteristics ensures that the "Pro Theatre" line-up delivers optimal movie quality at all times. This new technology is grounded in studies of the human brain-eye characteristics and on analysis of the picture parameters in the professional monitors used by film makers.

L9300 series - Flagship TVs

Featuring four times the resolution of today's 1080p full HD TVs, the L9300 series delivers the ultimate viewing experience for movies and TV shows. Powered by Toshiba's proprietary CEVO 4K and equipped with a Quad core CPU, the L9300 series delivers the highest quality Ultra HD image processing, including "Resolution Restoration" to restore clean, near Ultra HD image quality from less than 4K content and "Surface Brilliance Enhancement" that brings images to life like never before.





Toshiba Announces New TV Strategy

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With over eight million pixels on an Ultra HD display, the L9300 series allows viewers to sit closer to the screen than with a standard HD TV set without being distracted by the pixel structure. Not only that, Toshiba's advanced image processing technologies enable viewers to enjoy pin-sharp images and read small text easily. With this flagship series, Toshiba expects to establish a strong presence in ASEAN's high-end TV market. The L9300 series, available in 58- and 84-inch models, is scheduled to ship in the fourth quarter of 2013.



L4300 Series - Toshiba's first TV with the Android™ OS

Alongside an exciting home viewing experience and superb picture quality, for those viewers who want the extended viewing pleasure of access to the internet and its universe of content, Toshiba offers the L4300 series, its first "TV with Android™". It opens up access to the wide array of Android™ apps and offers a convenient way to browse and enjoy content. The L4300 series supports YouTube™, and images from the video sharing website are reproduced clearer and smoother thanks to Toshiba's superb image processing technology. The L4300 series, available in 39- and 50-inch models, is scheduled to ship in the fourth quarter of 2013.



L3300 series – Innovative "Turbo LED" and "Detail Booster"

The L3300 series showcases two of Toshiba's latest innovations in image processing: "Turbo LED" and "Detail Booster". "Turbo LED" boosts brightness dramatically, by 50%[1], delivering clearer, smoother images with superb resolution. The feature is controlled by the viewer and can be used when needed, keeping power consumption to a reasonable level. "Detail Booster" enhances both resolution and image texture. It improves overall resolution by restoring image edge sharpness affected by the upscaling process, while texture enhancement analyses the original images and hones a stereoscopic effect by strengthening their brilliance. With brighter, cleaner pictures, it delivers greater viewing pleasure. The L3300 series also supports YouTube™. The L3300 series, available in 32- and 39 inch models, is scheduled to ship in September 2013.



The global TV trend is to big screens and high definition. The new "Pro Theatre" line-up reflects this and adds much more. Drawing on Toshiba's leading-edge imaging technologies to enhance picture quality and create precise images, Toshiba continues to deliver a truly exciting viewing experience on bigger and better screens.

Important:

- All trademarks mentioned herein are the property of their respective owners. Exact product specifications depend on model and local availability.
- Product specifications, configurations and the availability of systems, components and options described herein are subject to change without notice.

Note: [1] Comparison to FY2012 model, PB200





5th September 2013

Toshiba to Expand Home Solutions Business in Europe Launching HEMS products and services in France

TOKYO—Toshiba Corporation (TOKYO:6502) today announced its start of sales and marketing of a home energy management system (HEMS) and services in Europe with the launch of "Pluzzy". Initial sales have started in France today, promoted by Toshiba Systèmes (France) S.A.S. (TSF). The launch is the first step to enhancing Toshiba Group's home solution business in Europe, where progress in introducing renewable energy is driving efforts to save energy in the home.

Pluzzy is a modular system that allows connected households to visualize current and cumulative power consumption for the day, week, month and year; to measure the cost; and to set and manage consumption targets. It also tracks CO₂ emissions. Smartplug, a component of Pluzzy, monitors energy consumption and allows programming and management of individual equipment. The overall system and individual settings, including remote control operation of lighting, heating and other equipment, can be accessed and controlled by a PC or network-connected TV, or a smartphone or tablet, which can also be used from remote locations outside the home.

As a modular system, Pluzzy is extensible. Its temperature and humidity sensor can be used to control the comfort of the home, and the motion sensor will switch off room lighting when it detects that a room is empty. Open door and the window sensor provide security.

"We are excited to launch our HEMS products and services in France, as we are convinced they will allow consumers to achieve not only enhanced home energy management but a better quality of life," said Ryuji Maruyama, General Manager of Toshiba's Smart Community Division. "We will steadily expand the HEMS business, including heating solutions for winter, and going forward we will launch Pluzzy in the U.K. and Germany. We aim to introduce the system to over 150,000 households or so in Europe in the next three years."

Europe is expected to see dramatic growth in penetration rates of home automation, energy management and security systems in the years to 2020. France is taking the lead, and plans to introduce smart meters from 2014. This move is expected to lead to the early introduction of hourly-based power rates, based on home meter data, and to promote the early adoption of HEMS compliant with the meters.





Toshiba to Expand Home Solutions Business in Europe

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Summary of Pluzzy

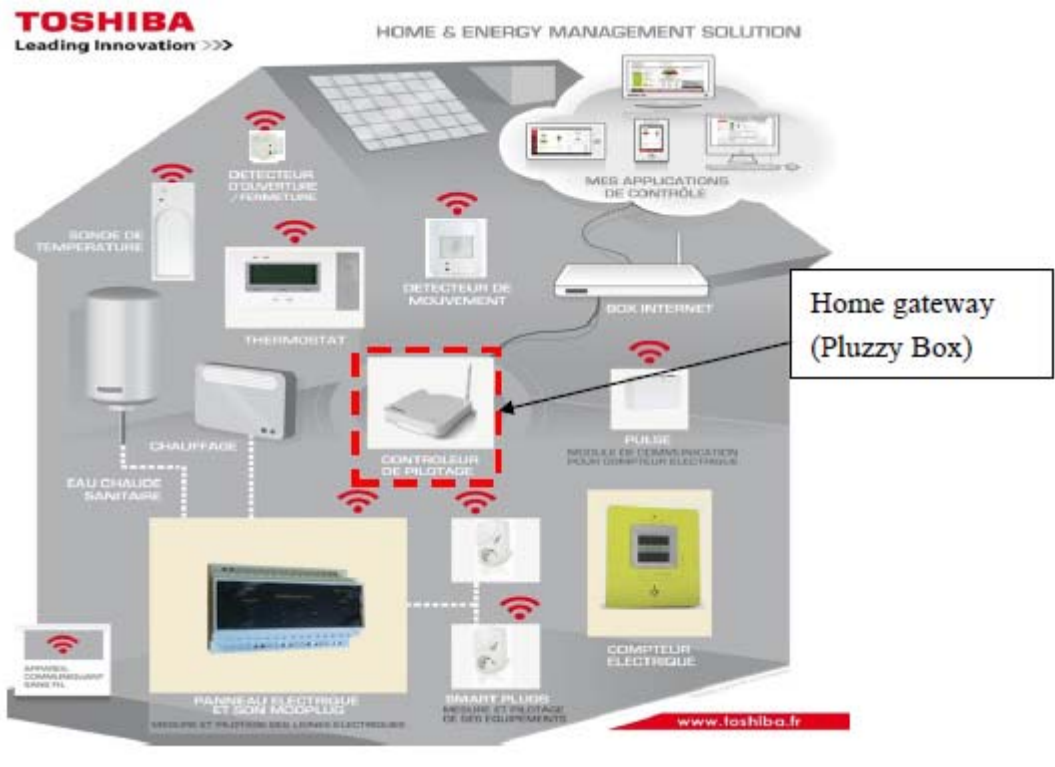
1. Home Gateway (Pluzzy Box)

Size	125mm(W) x 125mm(D) x 25mm(H)
Weight	About 170g
LAN Interface	10/100Mbps x2port
HAN	ZigBee PRO 2007 Coordinator
Power supply	Micro-USB 5V

2. System Equipment (Optional)

Pulse power meter, Smart plug, Temperature and humidity sensor, Open door and window sensor, Motion sensor

Formation Image





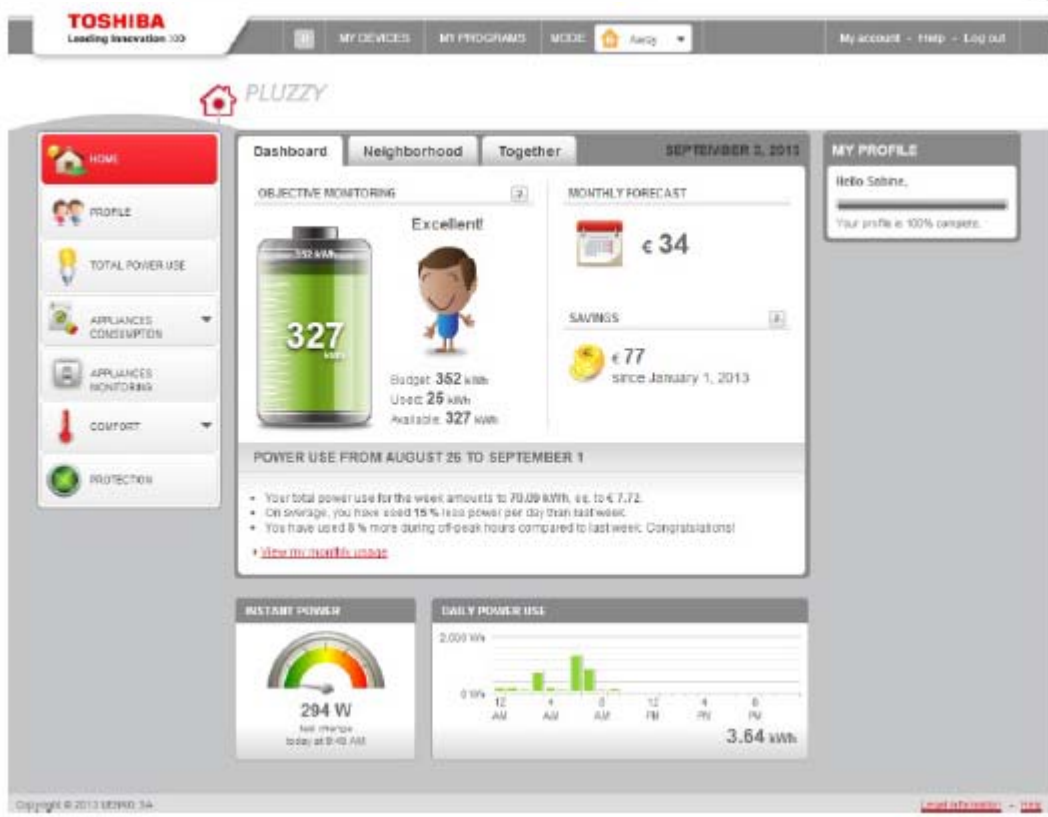
Toshiba to Expand Home Solutions Business in Europe

- continued

Home Gateway (Pluzzy Box)



Screen Image for Visualization of Energy



Promotion Video : <http://www.youtube.com/watch?v=wVm6pE32eJU>

About Toshiba Systèmes (France) S.A.S.

Toshiba Systems (France) is a leader in France of digital products for both the consumer and professional market, for which it carries one of the most comprehensive offers in the market, including: laptops, tablets, TVs, digital cameras, storage Toshiba Systems (France) also participates actively in the development of Toshiba Group new activities, including : eco - technologies such as LED lighting, energy efficient solutions such as HEMS (Home Energy Management System) and BEMS (Building Energy Management System), cloud services, and addresses the new markets of e-health and e-education Since 2008, the company is led by Philippe Delahaye.

Website : www.toshiba.fr



10th September 2013

Toshiba to Acquire T&D Business from Vijai Electricals Ltd., a Major Indian Manufacturer

To establish core base to expand its business in India and global market

Hyderabad – Toshiba Corporation and Vijai Electricals Ltd. (Vijai), one of India's leading manufacturers of power and distribution transformers, today announced that they have agreed to Toshiba's acquisition of the major part of Vijai's electricity transmission and distribution (T&D) business for approximately US\$200 million. The acquisition will be completed in November 2013.

In parallel, Toshiba will establish a new company that will absorb the acquired business, and also integrate Toshiba's state-of-the-art design and manufacturing technologies for T&D systems. The new company will also enter other growing markets in India, including power electronics systems, such as high voltage direct current (HVDC) power transmission and static var compensators for high voltage networks (SVC), and railway power supply systems. Toshiba will position the new company as a core production base for expanding its T&D business in India and the global market, alongside its other bases in Japan, China, Brazil, Russia and Southeast Asia.

Vijai was established in 1973, to manufacture and sell electricity distribution transformers. The business has grown on the strength of the company's high quality production capabilities, which have allowed it to win the top share in the Indian market and major footholds in both Europe and Africa. Vijai further expanded its T&D business in 2006, when it entered the power transformer and switchgear businesses, and through the business activities Vijai has manufactured and supplied the world's highest voltage class ultra-high voltage 1200 kV power transformer.

"The acquisition is necessary for our global T&D strategy, and Vijai's products and sales channel provide us with an ideal fit for our T&D business in India and beyond," said Takeshi Yokota, Corporate Vice President of Toshiba. "It will support us not only in the Indian market, where we aim to secure a 20% market share within five years, but in reinforcing our position in the global market, by strengthening our worldwide network."

Dasari Jai Ramesh, Vijai's Chairman added "I'm delighted to reach agreement with Toshiba, a global company. We are proud that our technology strengths and people capabilities will become part of Toshiba Group and will provide them a powerful platform for their business growth and market expansion."

India has recorded year-on-year GDP growth of over 5% since 2003, and long-term capital investment is expected to continue to counter current infrastructure shortages in key areas, including electricity and transportation. The T&D market size is expected to rise to over US\$4 billion by 2015.

