

List of Eco Symbol Star Products (Hardware)

FY 2014/3 Eco Symbol Star Products

In FY 2014/3, seventeen product series in nine product groups were approved as products earning the Eco Symbol Star.

In addition to hardware products, the Satellite Mission I: water cycle observation satellite, 'SHIZUKU', (GCOM-W1) was approved as a product making considerable contribution to earth observation.

Certified Products		Criteria	Results and Strengths (Note: At the time the Eco Symbol Star mark is obtained)
Artificial satellite	Satellite Mission I: water cycle observation satellite, 'SHIZUKU', (GCOM-W1)	Resource recycling: Adoption of industry-first technology and system Technological superiority: This NEC technology overwhelmingly contributes to a reduction in environmental impact.	<ul style="list-style-type: none"> Developed a program for observation to elucidate water cycle mechanisms, and enabled provision of geophysical data. Contributes to ascertainment of global-scale environmental changes including El Nino and La Nina phenomena. Capable of observing with high precision electromagnetic waves radiated from the earth's ground surface, ocean surface and atmosphere due to a microradiometer of the world's largest diameter and world's highest performance.
IO virtualization technology	ExpEther (10G)	All three standards of the next-generation model standards (FY 2013/3 Eco Symbol Star product: ExpEther (1G) next generation model)	<ul style="list-style-type: none"> In a world-first achievement, the "PCI Express over Ethernet" can be achieved completely with hardware and without software. Also, this product is compatible to NEC's original and first-in-the-world "ExpEther" technology that realizes fusion of the computer and LAN standard Ethernet. Further, about 40 patent applications have been submitted including those related to PCI Express, Ethernet and system patents.

Certified Products		Criteria	Results and Strengths (Note: At the time the Eco Symbol Star mark is obtained)
Server Express5800 series	Express5800/R110f-1E Express5800/GT110f-S (air-cooled model/water-cooled model)	All three standards of the next-generation model standards (FY 2013/3 Eco Symbol Star product: Express5800/R110e-1E Express5800/GT110e-S (air-cooled model/water-cooled model) next generation model)	<ul style="list-style-type: none"> The Express5800/GT110f-S air-cooled model obtained the number 1 rank (*1) in the world at the time of product release in the "SPECpower_ssj(R)2008 benchmark" (*2), a comparison index for the standard power efficiency of computers. Achieved by utilizing the latest Intel(R) Xeon(R) processor E3-1200v3 product family and improving upon performance as well as being included in products based on the intensive energy-saving technologies in design and control cultivated by NEC. <p>(*1) :SPEC and the benchmark name SPECpower_ssj are trademarks of the Standard Performance Evaluation Corporation (SPEC). The "SPECpower_ssj(R)2008 benchmark" is one industry standard benchmarks for servers. It was developed and established as a comparison index for the energy efficiency of servers based on measurement data on transaction performance per unit of power consumption. The higher the value, the more superior the power efficiency performance.</p> <p>(*2) :http://www.nec.com/en/press/201307/global_20130704_01.html</p>
	Express5800/GT110f	All three standards of the next-generation model standards (FY 2013/3 Eco Symbol Star product: Express5800/GT110e next generation model)	<ul style="list-style-type: none"> Curbs temperature increase of built-in parts and achieves a 40°C operating environment and low-noise based on part arrangement geared to optimum cooling efficiency inside cabinets and precise control of cooling fan revolution speed linked to in-cabinet temperature sensors.
Server ACOS series	i-PX9800/A1LC	Global warming: Achievement of a CO ₂ emissions reduction rate of 50% or higher	<ul style="list-style-type: none"> Reduced CO₂ emissions by 71% compared to existing product (i-PX9000/A3MY, 2008 product) Developed an NEC processor with a maximum 3.5 times capacity of current models. Significantly reduced power consumption based on 1 chip LSI, clock gating*, utilization of high efficiency power supply and reduced number of cabinets due to improved mounting density. <p>* Method of controlling power consumption by stopping clock supply to unnecessary blocks that are not involved in operations</p>

Certified Products		Criteria	Results and Strengths (Note: At the time the Eco Symbol Star mark is obtained)
Storage iStorage M series	NEC Storage M700	Global warming: Achievement of a CO ₂ emissions reduction rate of 50% or higher	<ul style="list-style-type: none"> • Reduced CO₂ emissions by 60% compared to existing product (iStorage D8-3020, 2009 product). • Reduced power consumption in relation to performance based on high efficiency power supply (80PLUS PLATINUM), utilization of large volume HDD (4TB), and switch to many-core CPU*. • Obtained No.1 rank in the world in both SPC-1 and SPC-2 classes of storage performance benchmark. • Contributed to reduced electric power costs with operation at 40°C temperature environment. • Achieves maximum control of power consumption during idling due to low power consumption based on "visualization" of power consumption and autonomous control. <p>* When multiple processor cores are installed in one CPU package</p>
Supercomputer SX series	SX-ACE	Global warming: Achievement of a CO ₂ emissions reduction rate of 50% or higher	<ul style="list-style-type: none"> • Reduced CO₂ emissions by 90% compared to existing product (SX-9, 2007 product) • Conventional node made up of 16 CPUs made into 1 CPU all-in-one processor. High performance and improved power performance are achieved by 4 cores built in to one CPU unit. • Compared to the conventional product, installation space is reduced to 1/5, and power consumption to 1/10 for 131TFLOPS* peak performance. Electricity charges can be reduced by up to 200 million yen. <p>* 131TFLOPS is realized as the interior is equipped with four cores, each core with a processor of 64GFLPOS/64GBs capacity, with 64 mounted into each node cabinet, and 8 cabinets per cluster.</p>

Certified Products		Criteria	Results and Strengths (Note: At the time the Eco Symbol Star mark is obtained)
Public display MultiSync series	MultiSync LCD-P703/P801	Global warming: Achievement of a CO ₂ emissions reduction rate of 50% or higher	<ul style="list-style-type: none"> • Slim, lightweight and energy-efficient design realized by the use of LED backlight, thin power supply and thin back cover board. • The MultiSync LCD-P703 realized a reduced power consumption of about 68% compared to existing product (P702, 2012 product), and the MultiSync LCD-P801 realized a reduced power consumption of 63% compared to existing product (LCD8205, 2009 product). • Cuts unnecessary power consumption by expanding the range of backlight variable light (5 to 100%). • Reduces power consumption waste by automatically lowering the brightness of surrounding lights using ambient light control (outside light sensor), and optimal brightness settings adjusted to the environment.
LCD display for medical use MultiSync series	MultiSync MD242C2	Global warming: Achievement of a CO ₂ emissions reduction rate of 50% or higher	<ul style="list-style-type: none"> • Realizes reduced power consumption of 63% compared to existing model (MultiSync P241W, 2011 product) using energy-saving panels with LED backlights. • Realizes 77% power consumption reduction during motion sensor use based on newly developed motion sensor suitable for medical uses that does not release unnecessary infrared light and has fewer malfunctions.
Business Projector DLP projector	NP-L102WJD	Global warming: Achievement of a CO ₂ emissions reduction rate of 50% or higher	<ul style="list-style-type: none"> • Realizes the No.1 in the industry in efficiency for light utilization for LED light source projectors with twice the brightness (500 lm to 1,000 lm) of the existing product (NP-L500WJD, 2011 product), but with the same power consumption. • Equipped with an eco-mode that can be used up to 65% standard state of operation with a lower power level.
Broadband router	Aterm MR02LN	Global warming: Achievement of a CO ₂ emissions reduction rate of 50% or higher Adoption of industry-first technology that contributes to the CO ₂ emissions reduction of customers	<ul style="list-style-type: none"> • 70% reduction in CO₂ emissions compared to existing product (AtermMR01LN, 2012 product) based on power-saving microcomputer. • The first LTE mobile router of its kind in the industry that substantially extends continuous stand-by time from the conventional 30 hours to 200 hours based on a Bluetooth stand-by mode with minimal power consumption.

Certified Products		Criteria	Results and Strengths (Note: At the time the Eco Symbol Star mark is obtained)
LTE mobile router	Aterm MR03LN	All three standards of the next-generation model standards (FY 2014/3 Eco Symbol Star product: AtermMR02LN next generation model)	<ul style="list-style-type: none"> Maintains the same level of battery capacity as the existing product (AtermMr02LN, 2012 product), lessens power consumption and extends battery usage time by adoption of a low-power consumption chip. Achieves 24-hour continual operation, 3 times that of existing product, by enabling low-power Internet communication based on Bluetooth tethering in addition to standard Wi-Fi tethering.
Business PC Mate series	Mate type ME	All three standards of the next-generation model standards	<ul style="list-style-type: none"> The body is made up of about 90% bioplastics (NeCycle), including the front mask and color panel. Realizes a first for NEC—under 20W power consumption during idling for a separated desktop PC.
	Mate type MG	All three standards of the next-generation model standards	<ul style="list-style-type: none"> Senses the user leaving the seat with seat occupant detection sensor and normally shuts down screen lights in 5 seconds, and further shifts to sleep mode one minute later. Specifications for the same function in products of other companies enable only the screen off and are not capable of going into sleep mode.
Business PC VersaPro series	VersaPro type VD	All three standards of the next-generation model standards	<ul style="list-style-type: none"> All are equipped with zero-watt AC adapters that bring power consumption to zero when the power supply is shut off. Further, the zero-watt AC adapter is also equipped with an LED that shuts off during zero-watt operation, making it easy to distinguish the state of energy-saving.

* Includes products no longer on the market