

Address	79, Ayer Rajah Crescent, Singapore 139955		
Lot area	16000m <sup>2</sup>	Total floor area	12100m <sup>2</sup>
Establishment day	1978/5	Employees	236persons
ISO14001 certification date	1998/12	ISO14001 renewed	2011/1
Major Products	Car Audio/Video		



**Environmental CommunicationFY2011**

Information disclosure	1items	visitors on factory tour	0persons	collaboration with municipality	0items
Contact	Environmental Sustainability Office		TEL:	045-450-2512	

**Message from Compliance Administrator**

Our environmental management system has gone through a renewal audit conducted at the beginning of 2011. No major non compliance was found. With our focus on R&D, our programs and targets are more product-focused as to how to design products with the minimum cost and more environmental friendly. Future programs will be more on this area.



Compliance Administrators  
**Tan Kim Seng**

**Main activities in FY2011**

Target	Result
Delete grease on power IC and regulator IC	qty 556780, cost savings US\$14253.57
Reduce transistor size from 2916 to 2012	cancelled due to quality problem and transistor not use globally
Reduce mechanism board	qty 664864, cost savings US\$39393.19

**Products of Environmentally-conscious information**

**KD-R320 CD RECEIVER**



**Key Environmental Features**

**This product is an improved design model with no grease being used on the power and regulator IC.**

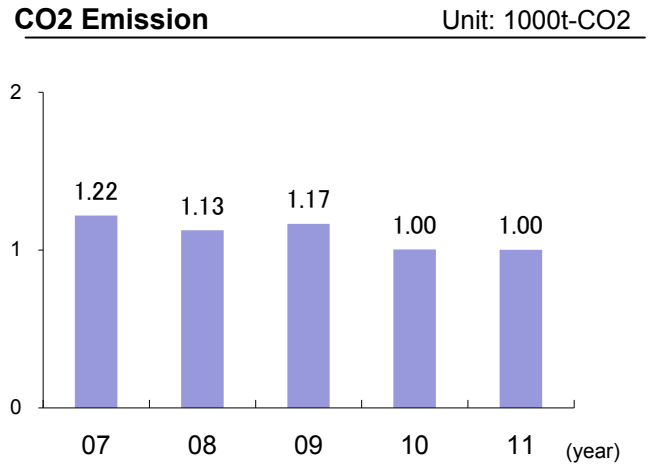
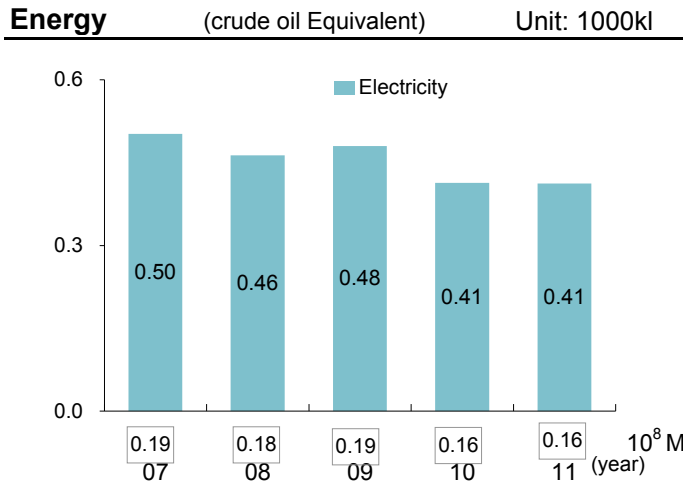
**A CD receiver with MOS-FET power amp and 24-bit DAC ensure crisp, clear sound in powerful 50W x 4 output.**

**It has a dual aux (front and rear) and a 3 band equaliser.**

**You can enjoy MP3/WMA files with ID3/WMA tags as well as WAV files.**

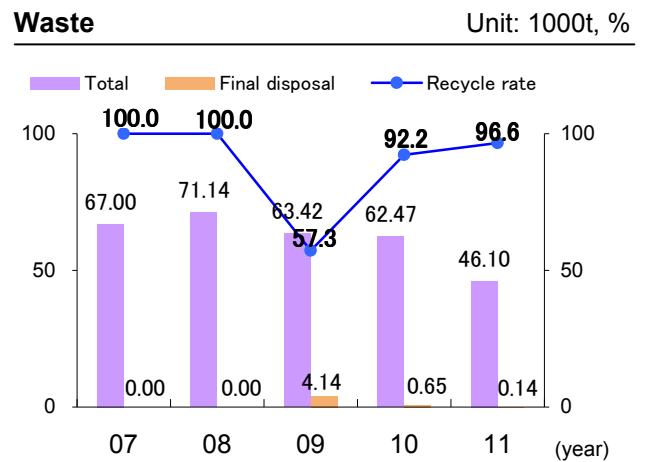
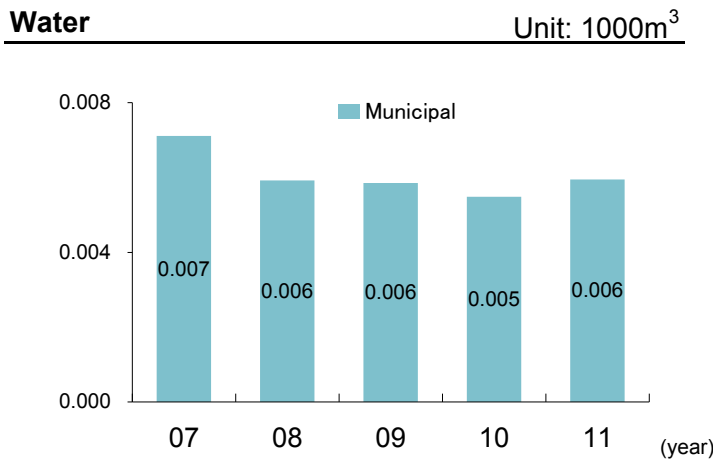
**Environmental performance data**

Year displayed in graph ex) 2011: April 1, 2010 - March 31, 2011



Calculation standards

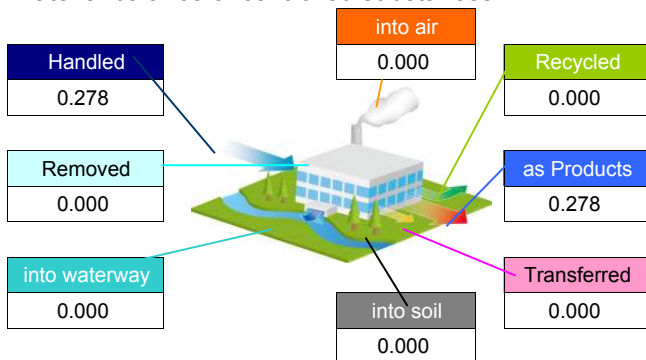
CO2 co-efficient and units 0.644 kgCO2/kWh



**Chemical substances**

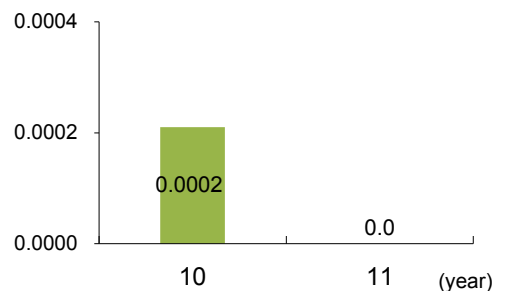
Unit:ton

Material balance of controlled substances FY2011



Key target reduction substances

[Released and Trasuferrrd amount]



About the above data

Our chemical usage was very minimam as we have no production. We will have to concentrate on efforts to minimise even the usage even further or look for alternative materials. Key target reduction substances : JVC selected about 60 substances from Japanese legal, PRTR, VOC and GHG.

**Compliance FY2011**

**<Air pollutant measurement results>**

	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
SOx	Nm <sup>3</sup> /h	N/A					
		N/A					
		N/A					
NOx	ppm	N/A					
		N/A					
		N/A					
Particulate	g/Nm <sup>3</sup>	N/A					
		N/A					
		N/A					

**<Water pollutant measurement results>**

	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
COD	mg/l	N/A					
		N/A					
		N/A					
BOD	mg/l	N/A					
		N/A					
		N/A					
Nitrogen	mg/l	N/A					
		N/A					
		N/A					
Phosphorus	mg/l	N/A					
		N/A					
		N/A					

**<Noise and vibration>**

	Unit	Measurement Area	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
Noise	dB	DT N/A					
		NT N/A					
Vibration	dB	DT N/A					
		NT N/A					

\*Legal limit: The strictest value out of those specified by laws, ordinances or agreements.

\*N/A(not applicable):The meaning when the facility is exempted from the regulation.

**About excess of legal limit value**

There is no item to report

**Improvement of direction by government, or point outs by neighbor**

Occurrence situation	Countermeasure
There is no item to report	



## JES ENVIRONMENTAL POLICY

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In line with JVC's corporate environmental policy, JVC Electronics Singapore Pte Ltd is committed to achieve environmental excellence by developing environmental programs, setting objectives and targets and through continual improvements in our Environmental Management System.

We shall uphold our commitment to:

- Comply with relevant environmental legislations, regulations and other requirements with regards to our activities, services and products.
- Maintaining good environmental awareness and practices among our employees.
- Improve on our general and toxic waste disposal practices.
- Strive for improvement on our energy and water consumption.
- Use best practicable means to prevent pollution.
- Design products with environmental considerations

We shall review our Environmental Management System regularly and conduct periodic audits so as to upgrade our environmental performance.

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Makoto Shirasu  
Managing Director  
JVC Electronics Singapore Pte Ltd

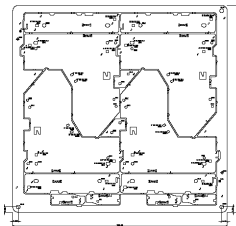
Revised : 01 June 2011

**Aiming to reduction of environmental impact**

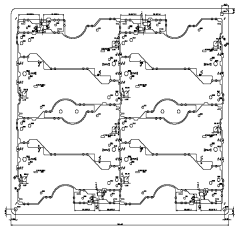
**Design Products with Environmental Considerations**

Our Y2010 projects is to look into designs that will have an impact on our environment. In the design phase, we have studied the possibility of using less materials, alternative components and process IE to produce better eco-friendly products. Our Y2010 projects focus on using less materials and re-design in order to achieve our goals.

**To Reduce Mechanism Board Size**



Before  
8 cavities



After  
8 cavities

**To Delete Grease on Power and Regulator IC**



Before  
IC with grease



After  
IC without grease

**Emergency preparedness and response**

**Concept**

JES has established a comprehensive evacuation plan to safeguard our employees' lives in case of emergencies. We have developed an emergency preparedness and response plan for these two situations:

- a. Fire Emergency Plan (FEP)
- b. In-Place Protection Plan (IPP)



**Fire Emergency Plan (FEP) - Evacuate from building**

The FEP was executed twice a year as part of our emergency preparedness and to meet government law's requirement. A review was also convened to assess the outcome of such drills.



**Table Top Exercise**

We conducted a table top drill on how to manage roll call. Discussion among the members were conducted and inputs were gathered. These inputs will be helpful for the committed in managing the next fire drill.