

# Low CO<sub>2</sub> Kawasaki Brand'14







# Low CO<sub>2</sub> Kawasaki Brand Grand prize



Product & Technology Category

# MITSUBISHI KAKOKI KAISHA, LTD.

HyGeia Series: Small-Scale On-Site Hydrogen Generator



#### Overview and features of product, technology

- New model high-performance, compact, on-site hydrogen production unit that produces high-purity hydrogen (more than 99.999 vol%)
- Offers world's foremost reforming efficiency
- Supports various feedstock such as city gas, LPG, biogas, etc.
- Exempted from High Pressure Gas Safety Act because of a operating condition at less than 1MPa

#### Life cycle CO<sub>2</sub> reduction effect

• Reduces approx. 30% CO<sub>2</sub> emission in comparison to previous model. Reduction of amount of raw materials procured by more compact size More than 20% reduction in amount of feedstock used

Procurement of

Production

Distribution/Sales

Use/Operation &

Disposal/Recycle



# JFE Steel Corporation East Japan Works (Keihin) Product & Technology Category

"LP Steel Plate" environment-friendly steel plate for ships and bridges \*LP: Longitudinally Profiled Steel Plate

#### Overview and features of product, technology

- The steel plates with continuously and linearly varied thickness in plate length direction according to change in design strength.
- Resource saving (reducing amount of steel plates in use) and Energy reduction for butt welding are made possible by use of LP steel plates. LP steel plates meet demands of energy reduction and CO2 emissions reduction in each industry in addition to shipbuilding.

  Resource s
  amount of

#### Life cycle CO<sub>2</sub> reduction effect

 Compared with plain steel plate, amount of CO<sub>2</sub> emissions reduction at every phase of life cycle achieved approx. 0.1% reduction of total CO<sub>2</sub> emissions.





\*Amount accounted for in distribution and sales phases is extremely small and was therefore omitted from calculation

# Toshiba Corporation Komukai Complex Product & Technology Category

#### Phased Array Weather Radar

#### Overview and features of product, technology

- Toshiba has developed the first Phased Array Weather Radar in Japan, which performs high speed and high accuracy observation. The information is used for timely evacuation from disaster like local torrential downpours "guerrilla rainstorm", and rivers and dams management.
- Observation performance of Phased Array Weather Radar is equivalent to 20 conventional weather radars with parabolic antenna.

#### Life cycle CO<sub>2</sub> reduction effect

■ Reduced CO₂ emission by approximately 90% compared to 20 conventional weather radars with parabolic antenna













Distribution/Sales



# Toshiba Corporation Komukai Complex Product & Technology Category

EG-7000 Automatic Ticket Gate for Shinkansen

Overview and features of product, technology



 Automatic ticket gate for Shinkansen can handle both smart cards and magnetic tickets such as fare ticket, limited express ticket, seat reservation ticket at one time. Passenger who has smart card for Shinkansen can pass the gate without using magnetic ticket.

Decreased machine weight and reduced power consumption when idle

#### Life cycle CO2 reduction effect

 Reduced CO<sub>2</sub> emission by approximately 30% compared to the former model

Reduced amount of raw materials due

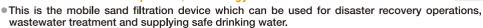
Distribution/Sales

# NIHON GENRYO Co., Ltd.

**Product & Technology Category** 

#### Mobile SIPHON TANK

#### Overview and features of product, technology



- Filter media can be used semi-permanently without replacement, because of the SIPHON Washing Technology.
- Supplying safe and clean drinking water without maintenance works.

#### Life cycle CO<sub>2</sub> reduction effect

the SIPHON Washing Technology is equipped

g the time of backwashing

**Product & Technology Category** 

 Mobile SIPHON TANK can reduce around 15% of CO<sub>2</sub> emission compared with the conventional sand filtration devices.

\* Model is for exclusive

# **Pioneer Corporation**

OLED Lighting "OLE-B01" for Makeup

### Overview and features of product, technology

- Illumination for applying makeup takes advantage of organic EL illumination features; is gentle on the eyes, offers excellent coloring, visibility, and has little reflection to help reduce mistakes.
- Commenced dispersion to Shiseido stores nationwide.
- Produces little heat, and no UV/infrared rays, so it is the ideal light for directly shining the facial surface in applying makeup for the eyes and face. Increase in raw material procurement

### Life cycle CO2 reduction effect

 Compared with incandescent light (comparatively close to natural light), offers approx. 10% reduction of CO<sub>2</sub> emission.

raw materials

# **Fujitsu General Limited**

Product & Technology Category

## Room Air-conditioner using New R32 Refrigerant "nocria®" X Series Overview and features of product, technology

- "nocria®" Series premium model equipped with "Dual Blaster" right/left side fans.
- Equipped with world's first air stream control of both side and center air streams; residential air-conditioner uses new R32 refrigerant that supports both energy conservation and optimal comfort.

#### Life cycle CO<sub>2</sub> reduction effect

 Approx. 5% CO<sub>2</sub> reduction in comparison with "nocria®" X Series (2013 model).

Improved efficiency of main components such as compressor

# **Fujitsu General Limited**

**Product & Technology Category** 

Room Air-conditioner using New R32 Refrigerant "nocria®" Z Series

#### Overview and features of product, technology

"nocria®" Series flagship model realizes total high function.

Offers high level of both energy conservation and comfort; residential air-conditioner uses new R32 refrigerant that offers the high energy conservation and the best cooling/heating performance available. Reduction due to le refrigerant filling

#### Life cycle CO<sub>2</sub> reduction effect

Approx. 5% CO<sub>2</sub> reduction in comparison with "nocria®" Z Series (2013 model).





Improved efficiency of main components such as compressor

