

# Business Activities and Environmental Impact

Olympus seeks to grasp the impact imposed by its business activities on the global environment as clearly as possible and to implement activities minimizing such impact.

## Major Environmental Impact in Development and Production Processes

### INPUT

#### Energy ▶P24

- Electric power.....96,390,000kWh
  - Heavy fuel oil .....3,941kl
  - Kerosene.....268kl
  - Diesel fuelv72kl
  - Gasoline .....54kl
  - City gas.....680,000m³
  - LPG.....130,000m³
  - Total .....1,198TJ
- TJ (terajoule) =10<sup>12</sup>J

#### Raw Materials

- Metals  
.....Steel, aluminum, brass
- Optical glass
- Plastics  
.....ABS, PC, polyethylene, polypropylene
- Chemicals  
....Acids, alkalines, solvents, paints

#### Office Supplies ▶P25

- Copy paper.....133tons

#### Other Utilities ▶P25

- Piped water.....170.000m³
- Ground water.....1,400,000m³

#### Research and development



#### Design



#### Manufacturing



### Development and Production Business Facilities

- Technology Research Institute (Hachioji) • Hinode Plant • Ina Plant • Tatsuno Plant
- Tokyo Kinzoku Co., Ltd. • Kyowa Plant • Olympus Co., Ltd., Aomori Plant • Olympus Co., Ltd., Aizu Plant
- Olympus Opto-technology Co., Ltd. / Head Office / Ohmachi Branch / Sakaki Branch
- Mishima Olympus Co., Ltd. • Shirakawa Olympus Co., Ltd. • Okaya Olympus Co., Ltd.

### OUTPUT

#### CO<sub>2</sub> Emissions ▶P24

- Electric power ...34,412tons-CO<sub>2</sub>
- Heavy fuel oil...10,917tons-CO<sub>2</sub>
- City gas.....1,462tons-CO<sub>2</sub>
- LPG.....803tons-CO<sub>2</sub>
- Kerosene .....672tons-CO<sub>2</sub>
- Others.....314tons-CO<sub>2</sub>
- Total .....48,580tons-CO<sub>2</sub>

#### Boiler Air Pollutants ▶P11

- SO<sub>x</sub> .....6tons
- NO<sub>x</sub>.....40tons

#### Emissions of PRTR-listed substances ▶P28

- Toluene .....9.5tons
- Xylene .....2.7tons
- Ethylene oxide .....0.8tons
- Trichloroethylene .....0.5tons
- Ethylene glycol .....0.3tons
- Others .....0.6tons
- Total .....14.4tons

#### Emission into Water Systems ▶P11

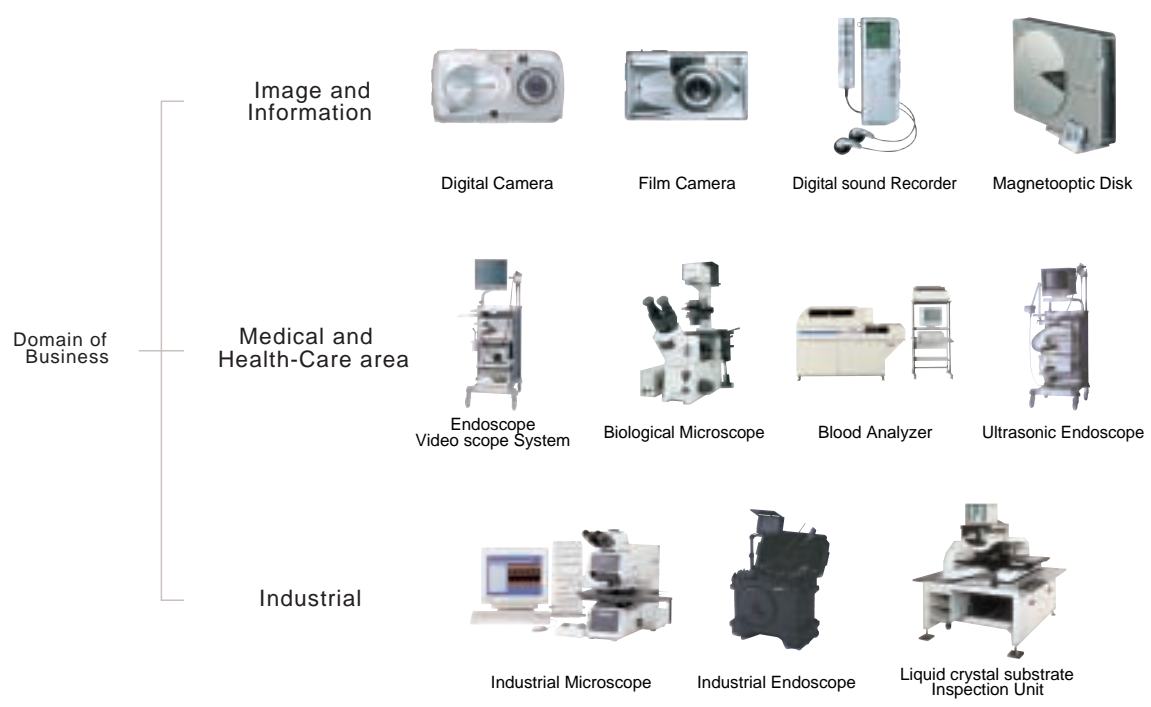
- BOD .....5.2tons

#### Recycled Wastes ▶P26

- Waste metals and glass...825tons
- Paper and cardboard.....742tons
- Plastics .....381tons
- Raw waste and sludge ...279tons
- Waste oil .....257tons
- Waste acids and alkalines ...157tons
- Total .....2,641tons

#### Commissioned Waste Processing ▶P27

- Waste plastics .....215tons
- Waste paper .....154tons
- Sludge .....145tons
- Waste acids .....125tons
- Waste alkalines.....103tons
- Waste metals and glass...65tons
- Waste oil .....37tons
- Others .....3tons
- Total .....847tons



## OUTPUT

Major Products	P16
✦ Digital Camera .....	1,060tons
✦ Film Camera .....	950tons
✦ Sound Recorder .....	170tons
✦ Magneto optic Disk ...	140tons
✦ Endoscope.....	560tons
✦ Microscope.....	700tons
✦ Analyzer .....	600tons
✦ Measuring Instruments ...	100tons
✦ Printer .....	150tons
Total .....	4,430tons

Packaging Materials	P22
✦ Cardboard .....	1,409tons
✦ Paper .....	483tons
✦ Plastics .....	222tons
✦ Metal.....	48tons
✦ Glass.....	2tons
Total .....	2,164tons