

## ZEON Group (Japan)

### Zeon Medical Inc.

#### Introduction to Zeon Medical Inc.

Zeon Medical Inc. was established in 1989 to continue Zeon Corporation's medical business as its wholly owned subsidiary.

Since then the company has developed medical equipment that uses new materials, particularly biocompatible materials, produced by combining ZEON's various proprietary technologies. Zeon Medical acquired approval to manufacture supplementary artificial hearts from the Ministry of Health and Welfare (now Ministry of Health, Labour and Welfare) in January 1990. This was a world-first technology at the time and a typical example of the company's success in this field.

In January 1990, Zeon Medical commenced operations to market its supplementary artificial heart. In July 1996, it took over operation of exports, research and development, and manufacturing divisions from Zeon Corporation, the final addition in Zeon Medical's becoming a fully integrated medical equipment business in both name and substance. Since then the company has developed, manufactured, and marketed predominantly cardiovascular and gastrointestinal medical equipment in an effort to expand its business domain as a domestic manufacturer in Japan.

The healthcare field has been evolving dramatically in the wake of continuing advances in medical technologies. With the sense of responsibility and purpose that comes with being stewards of health, we are continuing to develop and improve our innovative medical equipment, and provide systems and services that satisfy our customers.

We will continue to deliver safe, high-quality products that can be used with peace of mind by doctors, technologists, nurses, and other healthcare practitioners to maintain the well-being of their patients.

The research lab is within the Takaoka Plant. From the design stage, the research lab works together with the manufacturing department and partakes in development aimed at devising design and assembly methods that ensure efficient production and consistent quality.



President Muneki Sawa



Zeon Medical's research center and plant



## Environmental and Safety Activities

### 1. Efforts to Reduce Environmental Impact

We are continuing to implement existing initiatives to reduce emissions of chemical substances subject to the PRTR Law, but we now also possess four sterilization machines, and we are reducing the number of machines operating to the extent possible according to the production situation, which has a strong effect on emissions.

In fiscal 2013, we consumed 1,618,486kWh of electric power, an increase from the fiscal 2012 level. Although we are continuing to reduce our power usage, we believe the level increased due to the changing climate effect from having a clean room, and because of the increased production output.

### 2. Environmental Data

Zeon Medical Inc.		FY2009	FY2010	FY2011	FY2012	FY2013
Substances covered by PRTR law	Number of substances	1	1	1	1	1
	Consumption (tons)	1.5	2.3	2.2	1.6	1.6
	Amount emitted (tons)	1.5	2.3	2.2	1.6	1.6
Industrial waste	Amount generated (before volume reduction) (tons)	5.4	7.6	21.9	10.4	9.2
	Amount sent to landfill (tons)	5.3	7.6	11.2	5.0	4.3
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m <sup>3</sup> )		-	-	11.7	14.3	17.8
CO <sub>2</sub> emissions (tons)		969	970	969	1,143	1,123
Energy consumption (crude oil equivalent, kL)		472	462	431	511	539

## Activities with the Local Community

One activity undertaken by the Zeon Takaoka Group is participation in neighborhood clean-up efforts along the nearby Kokubun-hama shoreline and the Himi Coast.

Also, to contribute to the development of the medical device industry in Toyama Prefecture as an administrative member of the West Toyama Prefecture Medical Device Development Council, we conducted a business matching program in which we spoke with local Hokuriku companies and followed up with individual meetings to examine business opportunities.

In R&D, we participated in a research meeting held by the Toyama Industrial Technology Center and are moving forward with development in collaboration with local companies.