

Technology Development Department - Future Technologies

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The technology center has at last been completed as the strongpoint to realize our corporate philosophy "We SANYO DENKI make the dreams of people come true for the happiness of people in cooperation with people" and is now in use, allowing us to improve our products through technology and product developments for the benefit of people, in line with our corporate philosophy. This new technology center is a unique, ideal environment for conducting this work, and for creative thinking. I would like to address regarding our technology developments that we will exert our efforts for realization of our corporate philosophy under this rich environment. Most of Sanyo Denki's products are energy conversion equipment and energy control equipment. Servo motors, for example, convert electric energy to rotational energy, while fan motors convert electric energy to blowing energy. Engine generators convert fuel to rotational energy and to electric energy. Photovoltaic power generation systems convert solar energy to DC power and then to AC power. Conversion efficiency is top priority in energy conversion and control. Improving the energy conversion efficiency saves energy and thus helps protect the earth's environment.

Technology to reduce the vibration and noise that accompany energy conversion takes second priority. Reducing the vibration and noise helps to protect the health and safety of people, and also improve the reliability of equipment.

More compact and lighter, higher performance equipment is the third priority. Cooling technology plays an important role since equipment reliability can be improved by suppressing heat dissipation with optimum cooling. Cooling technology also serves to make equipment last longer and use fewer resources.

Technologies to improve energy conversion efficiency, reduce vibration and noise, and maximize cooling efficiency are key to realizing our corporate philosophy. And these technologies are also welcomed by customers.

The technology development department will continue to focus its efforts on developing energy conversion technologies to make control equipment more efficient, technologies for reducing vibration and noise, and cooling technologies. All these efforts are supported by theoretical analysis, simulation by CAE and verification by experiments. The results are fed back to the related business units to be used in the design of future products. Key to the organic integration of these three fields of simulation, theoretical analysis and experimentation is the wise use of CAE technology. In-company technology status meetings are held once every six months to share information between departments. Academic societies provide good opportunities for us to announce our technical developments and to learn about other new technologies and thus improve our own. And we aggressively protect the rights to our technologies.

In summary, the technology development department will concentrate on the three directions of technology based on our corporate philosophy, namely, technology to protect the earth's environment, technology to protect the health and safety of humans, and technology to use new energies and to conserve energy in line with our corporate philosophy. We will continue to develop ways of improving energy conversion efficiency, reducing vibration and noise, and improving cooling.

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