Eco-products（environment-friendly products）
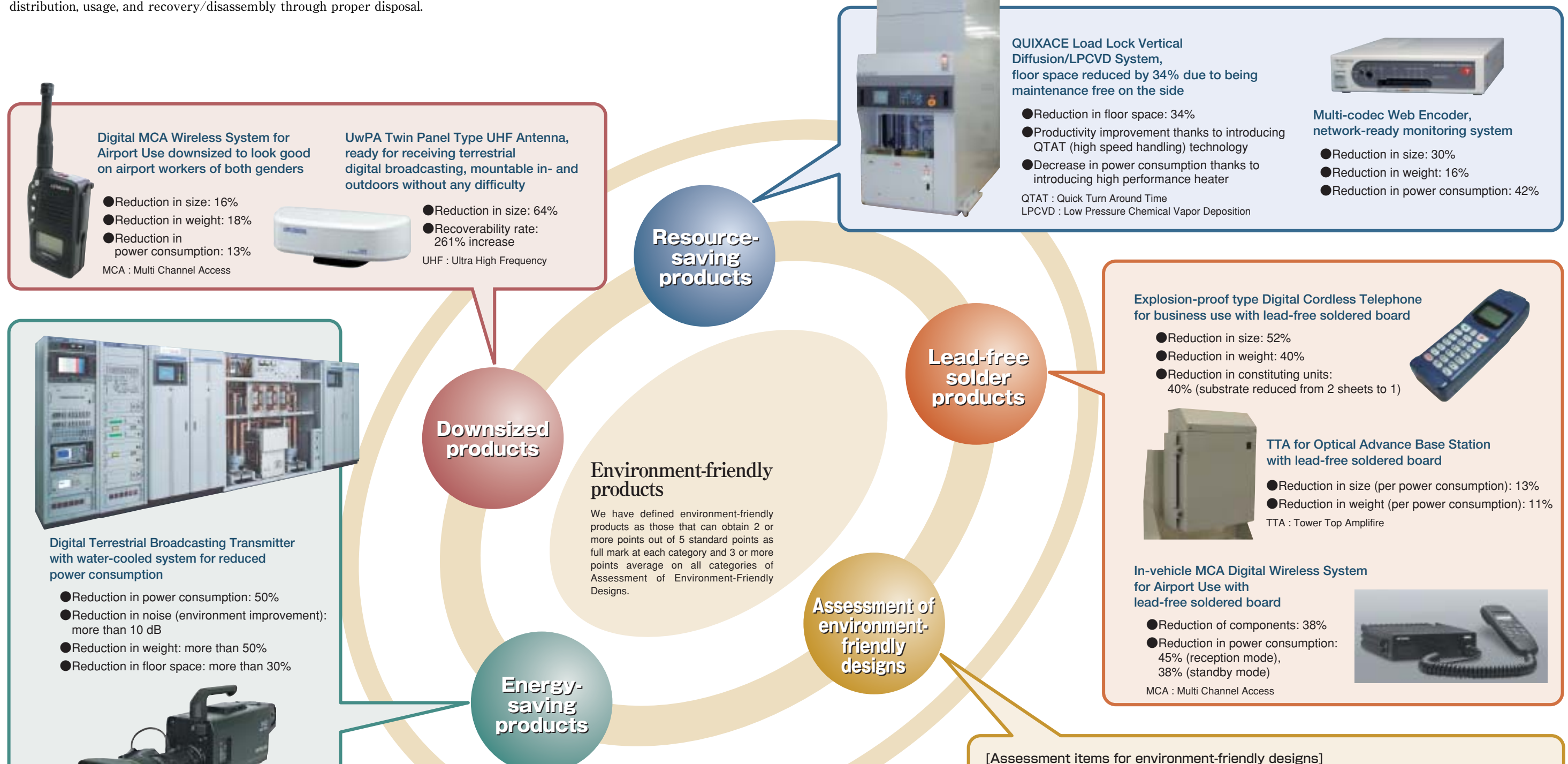
We are developing products, introducing our original assessment of environment-friendly designs based on the concept of minimizing the lifecycle environmental load at each stage of the product lifecycle from material, production, distribution, usage, and recovery/disassembly through proper disposal.

Resource-saving products

QUIXACE Load Lock Vertical Diffusion/LPCVD System, floor space reduced by 34% due to being maintenance free on the side

- Reduction in floor space: 34%
- Productivity improvement thanks to introducing QTAT (high speed handling) technology
- Decrease in power consumption thanks to introducing high performance heater

QTAT : Quick Turn Around Time
LPCVD : Low Pressure Chemical Vapor Deposition

Multi-codec Web Encoder, network-ready monitoring system

- Reduction in size: 30%
- Reduction in weight: 16%
- Reduction in power consumption: 42%

Digital MCA Wireless System for Airport Use downsized to look good on airport workers of both genders

- Reduction in size: 16%
- Reduction in weight: 18%
- Reduction in power consumption: 13%

MCA : Multi Channel Access

UwPA Twin Panel Type UHF Antenna, ready for receiving terrestrial digital broadcasting, mountable in- and outdoors without any difficulty

- Reduction in size: 64%
- Recoverability rate: 261% increase

UHF : Ultra High Frequency

Lead-free solder products

Explosion-proof type Digital Cordless Telephone for business use with lead-free soldered board

- Reduction in size: 52%
- Reduction in weight: 40%
- Reduction in constituting units: 40% (substrate reduced from 2 sheets to 1)

TTA for Optical Advance Base Station with lead-free soldered board

- Reduction in size (per power consumption): 13%
- Reduction in weight (per power consumption): 11%

TTA : Tower Top Amplifire

In-vehicle MCA Digital Wireless System for Airport Use with lead-free soldered board

- Reduction of components: 38%
- Reduction in power consumption: 45% (reception mode), 38% (standby mode)

MCA : Multi Channel Access

Downsized products

Digital Terrestrial Broadcasting Transmitter with water-cooled system for reduced power consumption

- Reduction in power consumption: 50%
- Reduction in noise (environment improvement): more than 10 dB
- Reduction in weight: more than 50%
- Reduction in floor space: more than 30%

Energy-saving products

HDTV Camera with high sensitivity, high resolution, and high S/N with reduced power consumption

- Reduction in power consumption: 40%
- Reduction in size: 40%
- Reduction in weight: 25%

S/N : Signal to Noise ratio
HDTV : High Definition TeleVision

Environment-friendly products

We have defined environment-friendly products as those that can obtain 2 or more points out of 5 standard points as full mark at each category and 3 or more points average on all categories of Assessment of Environment-Friendly Designs.

Assessment of environment-friendly designs

[Environment-friendly features of Digital Terrestrial Broadcasting Transmitter]

No.	Item		Conventional type (analog) Transmitter output: 10 kW	Developed transmitter (digital) Transmitter output: 1 kW	Remarks
1	Upgrade		SDTVS channel 1	HDTV channel 1 or SDTV channel 3	Due to digitalization (OFDM modulation)
2	Reduction in power consumption		30kW	More than 50% reduced	Reduction in transmission output
3	Environment improvement (noise)		65dB	More than 10 dB reduced	Shift to water cooling
4	Resource conservation	Weight	4,000Kg	More than 50% reduced	PA downsizing
		Floor space	7.5m^2	More than 30% reduced	Filter downsizing

[Assessment items for environment-friendly designs]

Category	Life cycle stage	Assessment criteria
Resource reduction	Selection of component materials, production, and distribution	Resource conservation, compactness, lightweight, conformity, high yield, standardization
Product longevity	Usage	Upgradability, ease of repair and maintenance, durability, reliability
Resource recycling	Reuse, distribution	Reusability, conformity/labeling of component materials, use of recycled materials, promotion of resource recycling
Ease of disassembly	Disassembly	Ease of disassembly, materials, ease of sorting, labeling of materials
Ease of processing	Production, distribution, disassembly	Crumbling, fragmentation, disassembly and separation, ease of processing
Environmental safety	Materials, production, distribution, usage, disassembly, disposal	Potential toxicity, potential harmfulness, explosiveness, potential hazard
Energy conservation	Usage, production	Energy conservation, longer durability, energy efficiency
Provision of information	Usage, disassembly, disposal	Provision of processing and product disposal information