

lhjgroup
Sustainability Report 2007



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To the reader

Second Sustainability Report - Fifth Environmental Statement

LHJ Group has published already four environmental statements and one sustainability report. Previously the reports have been written by LHJ Waste Management Ltd and it has included information about the joint venture companies. This year the report has been combined to present the overall picture of the whole group. The combined economical, social and environmental report includes the environmental statement which is completed in compliance with the EU's EMAS statute. The report also follows the international GRI3 sustainability guidelines. It is completed according to the GRI application level C.

See the Whole Report in the Internet

This printed report contains the main information which is completed with details in the internet. Different parts of the report have additional information in four appendixes.

See www.lhj.fi

More reporting principles in www.lhj.fi
-> Yhtiö -> Yhteiskuntavastuu

Appendix I: Reporting principles

- Scope of the Report
- Vocabulary and abbreviations
- GRI grid

Review by Managing Director

Dear reader,

LHJ Waste Management has grown during recent years into a versatile group that contains both municipal waste management and environmental business operations. This is the first annual report which is drafted under LHJ Group name. The new name was taken into use in spring 2008. In 2007 the group grew with two companies when Suomen Tietoturva Ltd. was established and Suomen Elektroniikkakäsittely Ltd's (former CRT-Finland) shares were bought by LHJ Waste Management. With Suomen Erytisjäte Ltd. LHJ Group contains already four companies. In Addition to this joint venture company Cool-Finland Ltd. operates closely with the group.

The most central part of the operations is still the services that we provide to the households and organisations inside our owner municipalities. We operate on behalf of the owner municipalities. The municipalities are expected to act responsibly

on climate change and other environmental issues. LHJ Waste Management and LHJ Group have utilized the best available technology and know-how from the beginning. We have been able to prevent significant amount of negative environmental impacts on behalf of our owners. Utilization of waste has on the other hand enabled a lot of positive impacts.

The municipal waste management is a basic and necessary service that should operate in every case and everywhere. It should not be dependent only on private business operations where profitable business is the main goal. Customers in distant locations or with financial difficulties must be taken care of too. Municipal waste management cannot be only business. It needs also responsible municipal operator which takes care also of the non-profitable side of the waste management.



In Finland we have to strive towards modern sustainable and reliable municipal waste management. The responsibility of the basic services has to maintain in municipalities. Municipal waste management however needs co-operation with private companies which are selected after competent tendering process. Together we are able to reach the best solution. Lhj Group itself is an excellent example of successful public-private partnership.

Argumentation between private and public waste management will continue in the future. In present situation the biggest uncertainties for public waste management, also for Lhj, comes from the private side. They put pressure against the municipal companies' position in municipal waste management. The waste legislation and the work of national PESÄ -working group has left the situation in Finland in to an unclear state. The division of tasks between private and public side is not clear. The parliament has

started the renewal of the Finnish Waste Act. Both sides have big expectations and hopefully we are able to clarify the situation in Finland in the future.

Lhj Group continues to develop its operations in both municipal waste management and business operations. We are committed to develop our operations according to the principles of sustainable development. Our operations are not dependent on only one operation. The group is in good condition and ready to meet the challenges in the future.

I would like to thank our staff, customers and interested parties for the year 2007. Best wishes for the year 2008.

Immo Sundholm
Managing Director

Group Values

- Progress
- Service orientation
- Responsibility
- Efficiency

LHJ Group Operational Policy

We in LHJ Waste Management and our joint venture companies Suomen Elektroniikkakäsittely, Cool-Finland, Suomen Erityisjäte and Suomen Tietoturva provide waste management services under LHJ Waste Managements environmental permit. We are pledged to carry out our services

Progressively

We develop, improve and diversify actively our operations to ensure high quality

Service oriented

We carry out interactive co-operation with our interest groups to achieve continuous improvement in our operations and high customer satisfaction. We inform openly and honestly every interest group about our environmental impacts.

Responsibly

Our goal is to increase the utilization of the waste and to minimize environmental impacts in our treatment operations. We comply and follow the rules and regulations set by the authority. We strive to meet the national and regional waste management targets. In planning and implementation of the treatment services, we aim to fulfil the environmental, quality and occupational safety targets that we have agreed upon the company. We audit the achievement of the targets regularly. We take care of the education and maintenance of the occupational skills of our employees. We also take care that every employee understands his or her own work's environmental and occupational safety impacts. Each member of the staff is obliged to work towards meeting the company targets.

Effectively

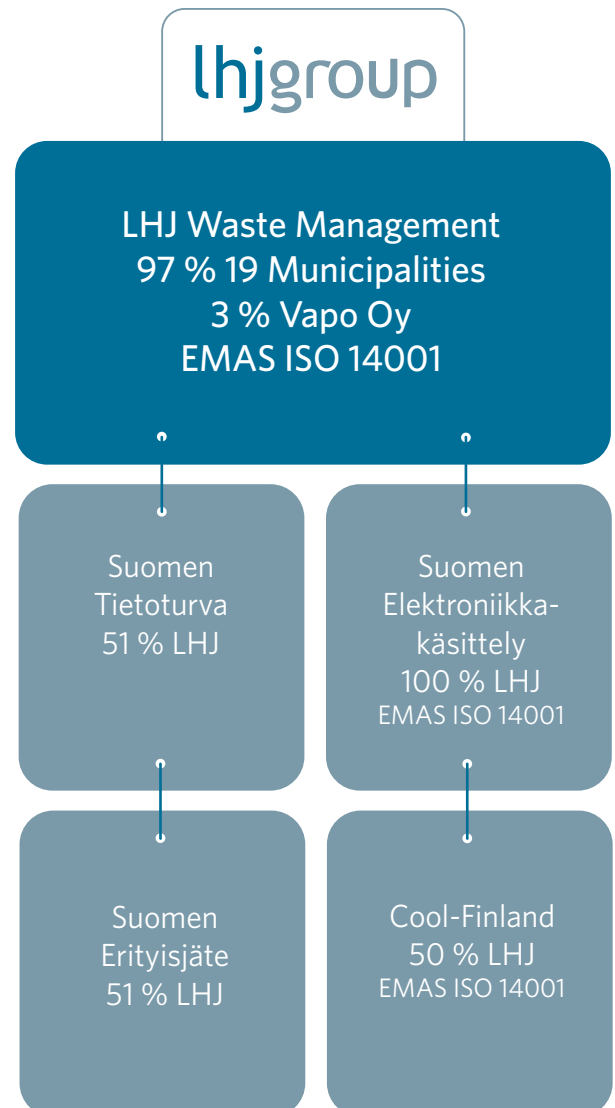
Utilizing the resources effectively, we strive to create good opportunities for development of the operations and profitable waste management.

LHJ Group

LHJ Waste Management, Suomen Elektroniikkakasittely, Suomen Erityisjäte and Suomen Tietoturva form together LHJ Group. The operations are built around a regional waste management company LHJ Waste Management Ltd which was established in 1995. It is owned by 19 municipalities and Vapo Ltd (3%). The operations started by building a municipal waste management services in the owner municipalities. After year 2000 the waste management company concentrated in building nationwide environmental business operations. The main operations in the group are municipal solid waste management in the owner municipalities, electric and electronic waste treatment, contaminated soil treatment and data security services. The business operations are provided nationwide and also in the Baltic countries. Recycled raw materials are sold internationally. The treatment operations and administration are concentrated in Forssa Envitech area, which is located in south-western part of Finland

The Company Government and Management Principles

In the highest position in LHJ Waste Management are the owners. Every owner municipality has its representative in the general meeting that gathers at least once a year. The most important decisions are made in the general meeting. Every municipality chooses its representative to the board of directors. Because



there are fewer places in the board compared to the number of the owners, smaller municipalities have representation in the board by turns. The responsibility and power are divided by the proportion of the inhabitants in the municipalities. Subsidiaries have their own boards with representatives from LHJ Waste Management.

Strategic guidelines and operational management are planned by the managing director and approved by the board of directors. The board of directors is provided with the necessary information before decision making. The managing director, chairman and deputy chairman of the board are discussing and preparing issues regularly together for the board meetings.

The operative activities are managed and carried out in five departments. In addition to the managing director and five management group members, the directors of the joint venture companies join in the operational management of the group, weekly management meetings and management reviews.

The operations of LHJ Waste Management and its joint venture companies are managed and developed according to an operational management system. It contains an ISO14001 and an EMAS certified environmental management system, an ISO9001 based quality system and an OHSAS 18001 based occupational safety system. The environmental part of the system is certified and only the operations of Suomen Erityisjäte and Suomen Tietoturva are excluded from the certification.

Group's Strategy Is to Be Versatile

LHJ Group's vision is to maintain its position as a pioneer in the waste management and environmental business in Finland. The company has introduced a four step strategy to fulfil the company vision.

- The company will stay versatile in its services and operations. It will not be dependent on only one operation.
- The existing and new business operations will be done with right partners.
- The development activities will be done with an open mind.
- The responsibility and care of the well being of environment, personnel and society is respected.

Directors of the Board in LHJ Waste Management

Eino Järvinen, chairman, Forssa

Heikki Tuomisto, deputy chairman, Somero

Jaakko Erjo, Vammala

Tapio Mikkola, Loimaa

Sisko Tiusanen, Akaa

Kaarlo Kauppinen, Äetsä

Esko Tonteri, Humppila

Eino Pöllänen, Alastaro

Ritva Laurikkala, Mellilä

Heikki Partanen, Kylmäkoski

Pekka Karppanen, Punkalaidun

Matti Alanko, Ypäjä

Timo Saarto, Forssa

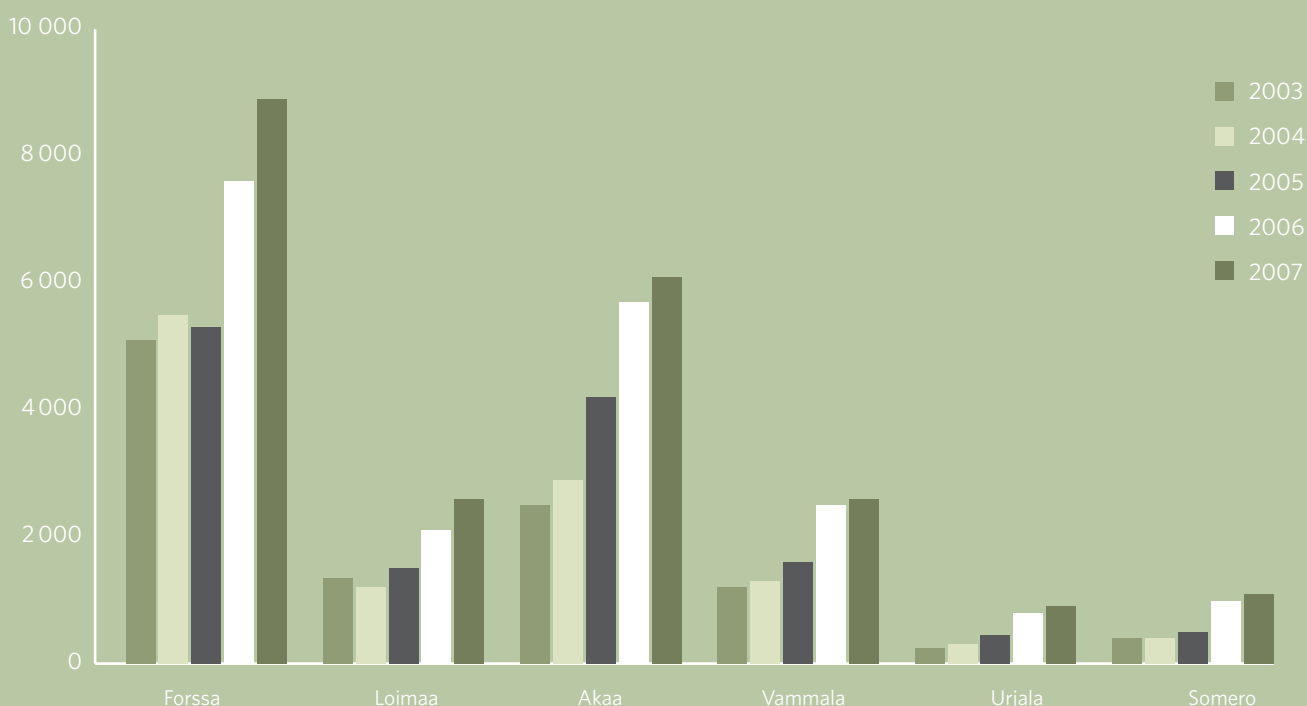




Collection Points for Recoverable and Household Waste

	number of points	Inhabitants/point
Glass points	203	568
Metal points	203	568
Paper points	203	568
Shared household waste points	124	
Individual household waste points	511	

Customers at the Waste Stations 2003-2007



LHJ Group Products and Services

LHJ Waste Management

According to the Finnish Waste Act municipalities have responsibility of municipal waste management in Finland. The municipalities have established LHJ Waste Management to fulfil the duty. In addition to LHJ, also other companies and producer's responsibility organisations provide services to households. The collection and transport of the household waste is done mainly by the private collection companies. LHJ has also waste collection in regional points and from the real properties. Some services are organised by the producers' responsibility organisations. These include collection services for paper, cardboard, electron-

ics waste and impregnating wood. However, LHJ has a significant role in providing municipal waste management services in the owner municipalities.

LHJ has concentrated all treatment operations in the Forssa Envitech Area. The treatment solutions are provided for both household and company waste fractions. The main treatment operations are production of recycled fuel, final disposal of waste in the landfill, composting of garden waste, treatment of oily waste. The treatment of separately collected biowaste is outsourced to the private composting facility.

Municipal Waste Service System in the LHJ Owner Municipalities

	Service, LHJ's role	Other providers
	<p>Collection at the real property</p> <ul style="list-style-type: none"> - Biowaste collection - Energy waste collection in Forssa - Household waste collection in Akaa, Kylmäkoski and Humpvila 	<p>Household waste</p> <ul style="list-style-type: none"> - Private companies - Paper and cardboard - producer's responsibility organisation
	<p>Regional collection points</p> <ul style="list-style-type: none"> - Glass, metal, paper and battery collection in approx. 200 ecopoints - Regional collection points for household waste 	<p>Paper and cardboard</p> <ul style="list-style-type: none"> - Responsible producers organisation
	<p>Manned waste stations</p> <p>Forssa, Akaa, Vammala, Loimaa, Urjala and Somero</p>	<p>Private waste stations in Yläne and Punkalaidun</p>
	<p>Hazardous waste points</p> <p>Tammela, Jokioinen, Oripää, Yläne, Alastaro, Kiikoinen, Äetsä and Punkalaidun</p>	
	<p>Mobile collection campaigns</p> <ul style="list-style-type: none"> - Hazardous waste collection campaign - Metal scrap collection (LHJ or municipalities) 	<p>Electronics waste collection campaign</p> <ul style="list-style-type: none"> - producer's responsibility organisation
	<p>Counselling and communications</p> <p>www.lhj.fi, neuvonta@lhj.fi (03) 424 2619</p> <p>Guides School co-operation Groups Information events</p>	



Nationwide Environmental Services

Subsidiaries in the LHJ Group are concentrating in national and international operations. The group has three service lines which are electronics waste treatment, contaminated soil and industrial waste operations as well as data security services. The services are managed through three subsidiaries and one joint venture companies.

CRT and Electronics Waste Treatment

Suomen Elektroniikkakäsittely Ltd was established in 2003 to treat electric and electronic waste. It is the only operator in Finland that is able to treat the whole appliance also the cathode ray tube. The old appliances in Finland are recycled through the company's facility in Forssa. Nowadays, it has treatment solutions also for other electronic devices. In the treatment process the company upgrades recycled electronic appliances into raw materials such as metals, glass and plastics. The company changed its name from CRT-Finland into Suomen Elektroniikkakäsittely in the beginning of 2008.

Contaminated Soil and Industrial Waste Operations

The contaminated soil operations started already in the late 1990's together with LHJ Waste Management and Niska & Nyssönen Ltd. During this decade the companies have introduced several

different treatment methods in the Forssa Envitech are such as solidification, stabilization, thermal treatment, biological treatment and final disposal. The two companies established a joint venture company Suomen Erityisjäte Ltd. in 2004. It operates two different final disposal areas in the Envitech area. It is able to give treatment solutions for contaminated soil and industrial waste that cannot be purified or recycled.

Data Security Services for Different Materials

Suomen Tietoturva Ltd was established in 2007. Its main services are data security services for companies, public organisations and household customers. It treats materials such as paper archives, CD-ROM's, hard drives, tapes, and other confidential or secret materials. In addition to collection and treatment the company gives also consultation and training services.

Treatment Services for Cooling Equipment

Treatment of refrigerators and freezers started already in 2000. The operation has grown and after 2005 a old appliances from Finland have been treated in the stationary treatment facility in Forssa Envitech area. LHJ Waste Management established a joint venture company Cool-Finland Ltd. with Oeko-Service Luxemburg in 2005. The company is able to process old appliances into different raw materials such as metals and plastics.



Economical Responsibility

LHJ Group is committed to develop its activities efficiently. This means cost-efficiency in municipal waste management services and a competitive price-quality ratio compared to the other regions in Finland. LHJ Waste Management operates in cost-price principle and it does not distribute dividend. In addition to municipal waste management the company strives to develop business operations with partners. The objective is to provide competitive and high quality solutions for different types of waste materials in Finland and in the Baltic region. The subsidiaries in LHJ Group operate in an open business environment and their target is to create profitable business. The companies utilize effectively the existing synergy benefits from the infrastructure and the treatment capacity in the Forssa Envitech area.

LHJ Group

The most significant change in 2007 happened when LHJ Waste Management bought the shares of Suomen Elektroniikkakäsittely Ltd. The company stayed as an independent company in the group. The employees continued at the company's service. In May, a new company Suomen Tietoturva Oy was established. The majority owner in this data security company is LHJ Waste Management. In the end of the year 2007 there were altogether four companies in the LHJ Group. In addition to this a joint venture company Cool-Finland Oy operated closely with the group.

A Good Result Enables the Sustainable Waste Management

A good financial result enables the company to develop the basic operations steadily. The nature of the municipality owned waste management company is to secure that the operations are done responsibly also after many years from now. The investments in the future require a stable economical ground in order to survive also form the unexpected changes.

The net sales of LHJ Group have changed from year to year during the last three years. The main reason for this has been the changes in the Group structure and the new companies. In 2007, major proportion of the net sales originated in municipal waste management services. When the total financial period of the business operations inside the group is included, the proportion would have been considerably different. For example Suomen Elektroniikkakäsittely was included in the group in the end of 2007. In spite of the changes, the financial performance has stayed at a good and expected level. LHJ Group managed to produce approximately 0,6 M€ profit in 2007. The positive result enables the company to finance the expected investments partly from the own cash flow. For example in 2008 the company is going to finance the construction of the new landfill site without loans. The profit is eventually shared as a reasonable price level and good

Financial Parameters of the LHJ Group 2005-2007 (M€)

	2005	2006	2007
Net Sales	9,2	7,6	8,2
Net Sales + other operating income	9,4	7,9	8,6
Operating profit	1,7	0,6	0,9
Operating profit % from the net sales	18,9	8,1	11,5
Profit for the financial period	0,7	0,4	0,6
Waste tax	1,3	0,9	1,1
Investments	2,1	0,7	3,1
Balance sheet	12,4	11,2	12,9
Gearing ratio %	36,3	41,0	40,5
After care reserve, LHJ Waste Management (total)	0,6	0,7	0,8
Municipal Waste, €/tonne (incl. waste tax and VAT)	96,0	100,0	103,0

waste management services to all waste producers in the owner municipalities. The Group paid 1,1million euros of waste tax to the government in 2007. The waste tax is paid from the waste materials that are placed in the landfill. Waste tax is not paid from the waste that is utilized.

Investments on Environment

The investments in the waste management have been connected very closely to the environmental improvements. The company has invested in safe structures and utilization technology. The majority of the investments have had direct or indirect positive environmental impacts. In 2007 LHJ Group invested in two landfill enlargements. Also the bought of Suomen Elekroniikkäksitely increased the investments. The company has not received any significant subsidies from the EU or government during the recent years.

Employment and Co-operation Partners

The group and its joint venture companies employ directly approximately 80 employees. The personnel is located almost completely in the Forssa Envitech area where the treatment and administration operations are located. The indirect effect is also significant at the treatment center for example in the contaminat-

ed soil treatment. The indirect effect on transportation and other services is significant more widely in the owner municipalities.

A large proportion of the company's waste management activities and support services are provided by private companies. In 2007, the value of the external services were 42 percent of the net sales. Because LHJ Waste Management is owned by municipalities, it follows the procurement legislation that is set for the public organisations. The environmental, social and safety matters are considered in the tendering processes as well as in the contracts.

More Economical Responsibility information in www.lhj.fi

->Yhtiö -> Yhteiskuntavastuu

Appendix II: Economical Responsibility

- LHJ Waste Management
- Income Statement
- Balance Sheet
- Distribution of Net Sales

Counselling parameters 2003-2007

		2003	2004	2005	2006	2007
Information events	pcs.	30	34	35	21	28
Visitor groups	pcs.	73	76	70	45	48
Information events	persons	1212	1423	4425	1563	1779
Visitor groups	persons	1555	1596	1549	1230	1169

Social Responsibility

Responsible waste management and corporate citizenship means in the LHJ Group that we are a good and stable employer who takes care of the personnel's education and occupational safety. Every employee realizes his or hers impact in the occupational safety and environmental impacts in the company. We communicate our environmental performance and targets openly with interested parties. Our important task is to participate in environmental education, counselling and information dissemination.

LHJ Group and Society

LHJ Waste Management is an organisation owned by municipalities. It has a long lasting responsibility from its actions. It has to guarantee safe waste management service for decades ahead and also after the operation ends. For example landfill must be secured and monitored after the closing of the treatment site. The effects on society have been evaluated along with the environmental impacts in the environmental impact assessment (EIA) in 2002. It affected also on the environmental permit that was received in 2004. The company has been involved in several development projects related to the regional development in the owner municipalities and also more widely through Finnish Solid Waste Association. The company has had important role in Forssa Envitech area in developing new businesses and the whole infrastructure. In 2007 the company had representatives in R&D and communications section of Finnish Solid Waste Association. The company participated in a national reporting project for waste management companies. LHJ Waste Management took

part also to a national KAAPINTA project, where industrial material flows are utilized in landfill structures.

Environmental Education Through Counselling

Counselling and Information dissemination are one of the basic tasks in a municipal waste management company. The company co-operates with kinder gardens, schools and other organisations in the area of the owner municipalities. The most common way to co-operate is to arrange information event or invite a group to the waste management center. In 2007, the number of both events and persons in the events grew from previous year. LHJ Waste Management decided also to create a new school project in order to arrange environmental days in the local schools. The Project starts in 2008. The company decided also to participate into a wider project in south-western Finland. The purpose in this project is to emphasize the importance of reduction of the waste.

More Social Responsibility information in www.lhj.fi
->Yhtiö -> Yhteiskuntavastuu

Appendix III: Social Responsibility

- Staff
- Occupational Safety
- Personnel Parameters
- Interest Groups
- Responsibility of the Services





Environmental Responsibility

LHJ Group is committed to develop its activities progressively and responsibly. These two key factors from the company values and operational policy, emphasize the commitment to find new ways of improving the utilization and technology in waste management as well as to fulfil the task with a minimum level of environmental impacts. The environmental management system is an important tool in managing the environmental responsibility in the company.

Environmental Management System (EMS)

The EMS is in place to identify significant environmental aspects, to control these and to establish environmental improvements. EMS is established in accordance with the international ISO 14001 standard and the European EMAS regulation. The company was granted the ISO 14001 and EMAS certifications in 2004. The subsidiaries Suomen Erityisjäte Ltd and Suomen Tietoturva Ltd. are excluded from the certification, but are planned to be included in the future.

Environmental Permit

Häme Regional Environment Center gave LHJ Waste Management an Environmental Permit on 31st March 2004. The renewed permit covers all operations carried out in the Kiimassuo Waste Management Center by LHJ Waste Management and its joint venture companies and subcontractors. In 2007, LHJ Waste Management applied the permit for thermal treatment of municipal sludge from the waste water treatment.

Significant Environmental Aspects

An environmental aspect is a company's activity that causes or may cause changes in the environment locally or more widely. The impact of the aspect on environment can be either positive or negative. The negative environmental impacts are assessed and scored in LHJ's aspect assessment. The positive impacts are identified in the same process. Both positive and negative impacts are considered and evaluated before drafting an operation programme or some other improvement tool.

EMS in the Treatment Center

1. LHJ Office
2. Weighing station
3. REF-Facility
4. REF Storage
5. Suomen Elektroniikkakäsittely Ltd
6. Cool-Finland Oy
7. Hazardous waste station
8. Oil Processing
9. Inert Waste
- 10 and 13. Niska & Nyssönen Oy
11. Landfill
12. Composting field
14. Landfill water pumping station
15. VAPO CPH-plant
16. Envor Biotech Composting plant
17. Envor Processing paper recycling
18. Envor Recycling glass and plastics recycling
19. Envor Group Office and heavy vehicle wash
20. Suomen Erityisjäte Ltd Treatment center
21. J Syrjänen Oy construction waste

Activities in the certified EMS are located inside the white line.

Summary of the Significant Aspects:

1. Formation of landfill gas, LHJ
 - a. Decomposition of waste at the landfill site
2. Possible impacts on waste and ground water, LHJ
 - a. Impurities in the leachate water
 - b. Damage in the base structure of the landfill
3. Possible heavy metal emissions
 - a. Accidents in contaminated soil operations, LHJ/Suomen Erityisjäte
4. Energy Consumption, LHJ, Suomen Elektroniikkakäsittely, Cool-Finland
 - a. Energy consumption in the treatment processes
5. Possible emissions of CFC's in the atmosphere, Cool-Finland
 - a. Separation of CFC's from the cooling circuits and from the insulation material
 - b. Accidental overfilling of gas cylinders

Based on the significant aspects and operational policy, the companies draft a two year operation programme. The aspects can be controlled and monitored also by operation and working guidelines, collection services, treatment technology and/or monitoring programme.

Operation Programme

The first operation programme was introduced in 2001. Since then the five companies have drafted a new operation programme that has included both environmental and safety targets for two year periods. The results of the programme period 2006-2007 can be seen on the internet. A new programme is drafted for the years 2008-2009. It includes similar objectives compared to the previous programmes.



Operation Programme 2008-2009

Objective 1

Prevention and reducing of the environmental impacts of the waste management center

- Target 1: To improve the monitoring of the impacts
- Target 2: To reduce the impacts by developing the storage areas, landfill gas management and improving the energy efficiency

Objective 2

To improve the collection and treatment methods

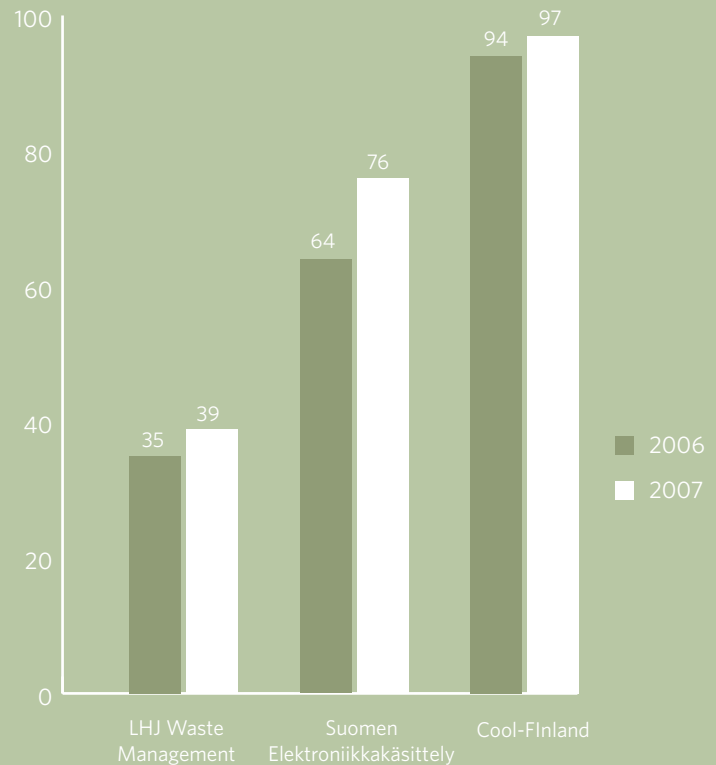
- Target 1: To improve utilization especially in the waste center structures and in electronics treatment
- Target 2: To improve treatment technology and methods in CFC collection, sludge treatment and recycled fuel production plant. New collection services for household customers
- Target 3: To improve customer satisfaction monitoring

Objective 3

To improve safety and knowledge

- Target 1: To improve occupational safety so that both sick leaves and occupational accidents decrease by 25 per cent compared to the year 2007
- Target 2: To improve interest group communications

Utilization Rates(%) in LHJ Group



Material Flows

Municipal Waste to Treatment

LHJ Waste Management receives waste from households, companies and public organizations. The waste types can be roughly categorized as recoverable waste, landfill waste and hazardous waste. The two latter types of waste can be also partly recovered; especially hazardous and electronics waste. Most of the landfill waste is disposed off in the landfill. The amounts of waste have developed steadily. The trend has been slightly growing during the past decade. There has been growth, although the number of inhabitants in the area has decreased.

The Utilization rate of municipal waste exceeded 50 per cent in 2003. In 2006, the utilization rate was at its lowest. This was mainly caused by the Waste Incineration Directive that affected company already from 2005 onwards. LHJ Waste Management was not able to produce recycled fuel as much as in the beginning of the decade. Part of the recyclable electronics waste and recoverable soil were excluded from the utilization rate at the same time, because of the change in the statistics. In 2007, the company was able to increase the utilization rate to 39 per cent.

Electronic Waste Treatment in the Waste Management Center

Cool-Finland Ltd. and Suomen Elektroniikkakäsittely Ltd. have process plants in the waste management center. Both companies are significant recyclers of electronic waste in their own market

segments. Cool-Finland operates in refrigerator and Suomen Elektroniikkakäsittely in television and monitor recycling. The electronic waste amount in the waste management center has multiplied during the last three years. Both companies have treatment contracts with the major producer's responsibility organisations which organize the collection and treatment of the old consumer appliances.

The both plants are specialized in treating and refining the discarded appliances into raw materials. The WEEE directive sets utilization targets for e-waste. For refrigerators the recycling rate target is 75 per cent. For televisions the rate is 65 per cent. In Refrigerator recycling the target was exceeded clearly with a 97 percent utilization rate. In CRT recycling the utilization rate was 76 percent in 2007.

Soil and Industrial Waste Flows

Pure soil, contaminated soil and industrial waste treatment are operated under the LHJ's environmental permit. LHJ is also responsible for the areas, weighing and monitoring of the treatment. LHJ Waste Management and Niska & Nyssönen Ltd. established Suomen Erityisjäte Ltd. in 2004 to operate a final disposal site for materials categorized as hazardous waste. Nowadays Forssa treatment center is able to provide several treatment methods for contaminated soil and also for industrial waste. Soil could be utilized in waste management center construction work or hazardous materials are placed in a special landfill.

Environmental Impacts

The environmental impacts are prevented with various methods. Environmental management system, base structures, technology, development programmes and monitoring helps LHJ Group to minimize its impacts on environment. In spite of this, there are always some impacts in the waste management operations.

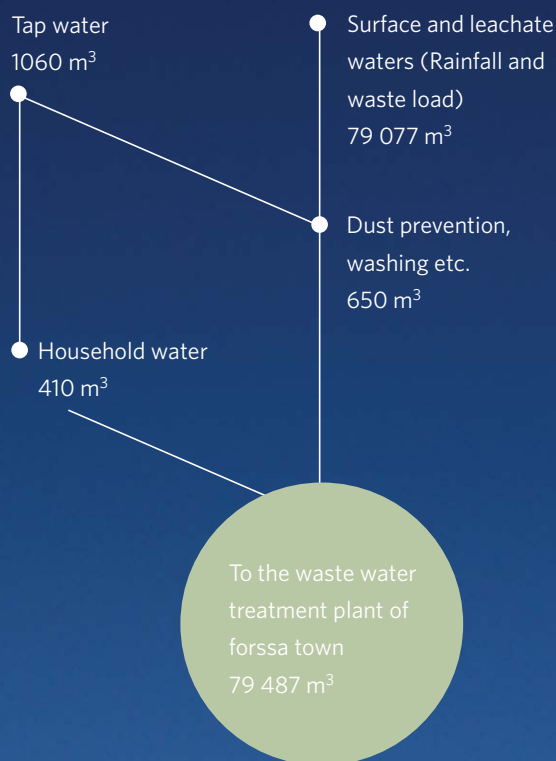
Impacts on Water

The waste management center area is not classified as important or water sensitive and there is no small water supply in the area. In fact, there is no real groundwater yield in the area. Most of the water in the groundwater observation points is coming from the surface. Landfill emission leakages into a wider area are highly unlikely because of the conditions. The watertight base structures of the two final disposal areas and the water collection system in the waste management centre are installed to secure that the waste water does not drift away from the waste management center. All of the leachate water from the landfill and rainwater from the treatment and storage fields are pumped to the waste water treatment plant of Forssa town.

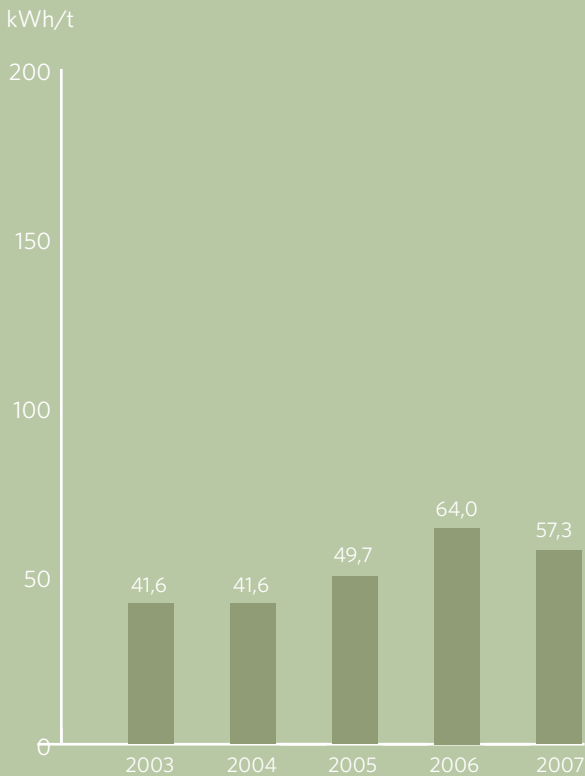
LHJ Waste Management monitors surface water, ground water and landfill water in 29 observation points which are located in the waste management center and in the surrounding area. The samples are taken and analyzed according to the monitoring programme approved by the regional environmental authority.

The water is originated from both rainfall and the water that comes in the waste loads. Part of the water evaporates before collection and treatment.

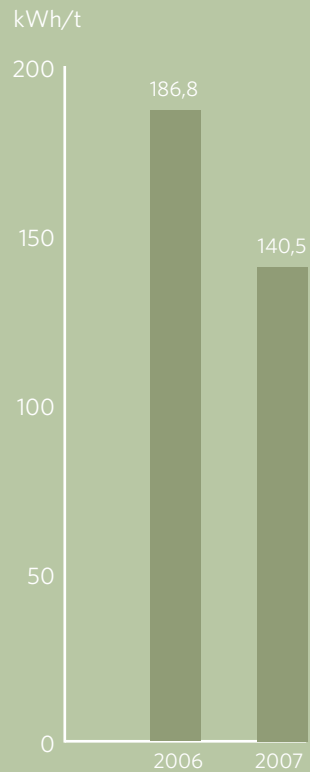
Water Balance in the Waste Management Center



Energy Consumption in the REF Plant 2003-2007



The Consumption of electricity in Electronics recycling 2005-2007



Impacts on Air

The impacts on air include gas, odour and dust emissions. Every impact has its own control method in order to prevent the negative effect. The main emission forms in the landfill site, where organic matter decomposes and changes into landfill gas. The gas consists mostly of methane and carbon dioxide. The methane collection is not yet started from the waste embankment, because of the small size and the age of the landfill. LHJ Waste Management decided in 2007 to continue the monitoring with new micrometeorological method with Meteorological Institute. It has been also agreed with the authority that after the monitoring period in 2008 there will be decisions of the most suitable method for the collection.

Energy Consumption

The energy consumption of LHJ Group has increased from year to year because of the new operations and increased processing of the materials. The growth slowed down a little bit in 2007 when the combined consumption of energy and heat grew by 8 per cent. The total consumption in 2007 was 3015 MWh.

The energy efficiency of the process plants dropped during 2005 and 2006. The plants processed at that time less waste than in the beginning of the decade. In 2007, LHJ Group managed to improve again the energy efficiency in both REF plant and in the electronics waste treatment. The plants were running with higher operating rate compared to the previous years. The company decided also to include an energy efficiency plan in the operation programme for the years 2008 and 2009.

More Environmental Responsibility information in www.lhj.fi
->Yhtiö -> Yhteiskuntavastuu

Appendix IV: Environmental Responsibility

- Organisation of the EMS
- Environmental Aspect Assessment
- Operation Programme 2006-2007
- Material Flows
- Environmental Impacts
- Other Impacts



EMAS Validation Statement

This report's environmental part has been drawn up by LHJ Group and its joint venture company: LHJ Waste Management Ltd, Suomen Elektroniikkäasittely Ltd. and Cool-Finland Oy. The last statement was published in May 2007 concerning the year 2006. This report is an update of the previous version. For the first time the information will be split up. The information is partly published in the sustainability report and partly in the appendix IV, which can be downloaded from LHJ Waste Managements internet site. Information of the statement will be updated annually. The next updated statement will be published by 30 April 2009 over the year 2008.

All figures concerning information on environment and waste have been verified. Social and financial parts of the report were not checked by the environmental verifier. This report has been examined by an accredited international verifier to verify that it meets the requirements of the EU regulation EMAS EC/761/2001.

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