ANNUAL REPORT

1997





TIMBER



KEKKILÄ



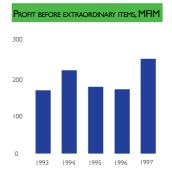
BIOTECH

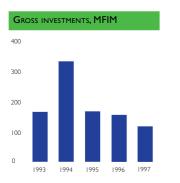


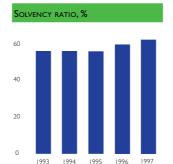
VAPO GROUP KEY FIGURES

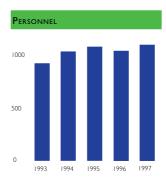




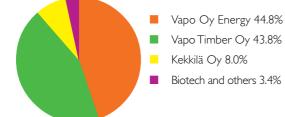








Turnover by business activity 1997, %





Fuel peat and other biofuels 40.8%

Sawmill products 43.1%

Growing media 9.5%

Heating and electricity 1.9%

Environmental products 4.7%

FIM million	1993	1994	1995	1996	1997
Turnover	1257	1497	1535	1645	1861
Growth %	14.0	19.1	2.5	7.2	13.1
Operating profit	194	231	182	186	253
% of turnover	15.5	15.4	11.8	11.3	13.6
Net financial items	-29	-14	-9	-18	-9
Profit before extraordinary items	165	216	173	168	245
% of turnover	13.1	14.4	11.3	10.2	13.2
Taxes	41	48	59	48	76
Profit for financial period	138	131	106	119	168
Dividends distributed	36	45	36	36	57
Balance sheet total	1682	2246	2090	2107	2239
Interest-bearing liabilities	471	499	510	487	387
Return on capital invested (ROI) %	16.4	16.9	13.2	11.9	15.6
Return on equity (ROE) %	14.2	17.1	10.5	10.4	13.4
Current ratio	2.37	1.69	2.19	2.02	2.37
Solvency ratio %	55.9	55.7	55.3	59.6	62.1
Gross investments	170	336	171	161	120
% of turnover	13.5	22.5	11.1	9.8	6.5
Average personnel	917	1040	1083	1046	1119
Per-share data					
Number of shares	30 000	30 000	30 000	30 000	30 000
Earnings / share, FIM	4 22.5	5 388.10	4 304.95	4 020.09	5 612.87
Shareholders' equity / share, FIM	28 820.36	33 843.32	36 233.36	38 814.46	43 199.14
Dividend / share	1 200.00	1 500.00	1 200.00	1 200.00	1 900.00
Dividend as % of earnings	29.1	27.8	27.9	29.9	33.9

VAPO GROUP

VAPO OY ENERGY

Vapo Energy is Finland's biggest supplier of indigenous biofuels. In addition to fuel peat and wood fuels, Vapo also produces heat and electricity. Fuel peat is used to produce a fifth of Finland's district heating and over 7% of all the electricity generated. Vapo Energy is also an important supplier of peat for environmental purposes.



VAPO TIMBER OY

Vapo Timber is Finland's fourth largest producer of sawn goods, and it ranks among the top ten in Europe. Vapo Timber's sawmills are located in Hankasalmi, Lieksa, Nurmes, Forssa, Paltamo and Ivalo. Their combined production capacity is almost 700 000 cubic metres, and 80% of total output is exported.



KEKKILÄ OY

Kekkilä manufactures growing media and fertilizers for the Finnish and export markets. In Finland Kekkilä markets a complete range of growing media and fertilizers for hobby gardeners. Fertilizers intended for professional use are tailor-made by Kekkilä.



VAPO OY BIOTECH

Vapo Biotech's business consists of municipal waste handling, sludge treatment, and the marketing of air purification equipment. Biotech has developed plants for composting and processing biowaste which are especially designed for Finnish conditions.



CONTENTS

Key figures2
Managing Director's Survey4
Business Activities6
Vapo Oy Energy6
Vapo Timber Oy9
Kekkilä Oy12
Vapo Oy Biotech15
Environmental Report
Research and Development24
Information Management25
Personnel26
Financial Statements28
Report of the Board of Directors28
Administration30
Group Organization31
Income Statement32
Balance Sheet33
Statement of Source and
Application of Funds35
Accounting Principles36
Notes to the Accounts
Proposal for the Distribution of Profits 43
Auditors' Report43
Statement of the Supervisory Board 43
Addresses44



BIOENERGY IS IN FAVOUR



The new two-year collective incomes policy agreement concluded at the end of 1997 is an extension of the 1995 collective agreement on economic, employment and labour market policy which increased stability in Finnish society and promoted the country's economic development. The new agreement will play its own part in securing the continued favourable development of the Finnish economy. If the Government also implements the reduction in taxes on earned income that is being increasingly called for, then we will again have a slightly firmer basis in Finland for our efforts to increase employment and promote welfare in a situation where we are not immune from world economic upheavals.

Finland's energy taxation system is amended each year, and this year's change gave permanent status to the 50% reduction in tax on natural gas and provided a tax exemption for all electricity generated using wood or wood-based fuels. The annual value of the tax relief for natural gas will be around FIM 220 million, while the value of the tax exemption for electricity generated utilizing wood will be some FIM 100 million. After due consideration, refunds of electricity tax to peat-fired cogeneration plants producing electricity with a maximum output of 40 MVA were retained at the same level. As a result these co-generation plants - together with wind and small-scale hydro power plants - will receive refunds of electricity tax amounting to some FIM 10 million per year. In accordance with Government energy policy, the energy taxation system supports increasing utilization of natural gas and bioenergy, and wood-based fuels in particular. The necessary conditions for the rational utilization of all of Finland's investments in power generating plants were nevertheless retained, and work to develop a diverse range of energy production methods can continue.

Increasing utilization of wood for energy production also increases the use of fuel peat, but in addition to sawdust, logging residues from the forests should also be used. This requires a significant reduction in the costs of collecting the residues and an ability to control the moisture content of the fuel. There is still a need for long-term research and development work in order to increase usage of wood-based fuels. As far as **fuel peat** is concerned, the production technology is already in place and production costs are under control. The use of peat for energy production has increased significantly and is also increasing in the areas where natural gas is used in southern Finland. Peat production volumes reached a new record level and adequate stockpiles - even though they mean additional costs for Vapo - ensure that our customers will receive the peat they need, even when weather conditions are less favourable for peat production.

There is increasing awareness of the significance of **peatland and peat production** in binding carbon and reducing emissions of methane. In Finland the annual accumulation of peat – like wood – is greater than the amount that is used, and Finland's bogs bind more carbon dioxide than is released through the production and utilization of peat. A view is emerging that peat should not be classified as a fossil fuel – like coal – but as a slowly renewing form of bioenergy, like wood-based, refuse derived and other biofuels. This change will probably soon be seen in the EU's statistics compilation and energy planning.

For several years Vapo Timber Oy has been implementing a long-term programme to develop its sawmills. The results of these efforts, together with favourable market conditions, gave the company the opportunity to significantly improve its financial performance. However, cyclical changes in the markets for sawn goods have accelerated, and profitability levels within the industry will decrease again this year. This development should also reduce prices for raw timber. Within the Vapo Group, these fluctuations in the business cycle will be smoothed out by the Kekkilä group's sales of "Better Growth" growing media and fertilizers, and by Vapo's growing environmental business activity, which has already achieved a significant share of the market for biofilters and composting plants. Research and development work, particularly on the treatment of malodorous gases, is continuing.

In terms of its **business operations and financial results**, the Vapo Group achieved its objectives in 1997.Vapo Timber Oy even exceeded the targets that had been set. With confidence in the future, the Group's employees and its contractors will this year continue their valued work in processing Finland's natural resources to create benefits for society as a whole. Supported by all our customers and business partners, we are confident that we can succeed in our work.

Jyväskylä, 6 February 1998



Esko Muhonen

5

Rauhalahti is one of the IVO power plants utilizing fuel peat from Vapo. In the photo: Jukka Kovanen of IVO, Hannu Hintikka of Vapo, driver Kari Koskela, and Pertti Hämäläinen and Tapani Sivula of IVO.



ALL-TIME RECORD YEAR FOR PEAT PRODUCTION



1997 was Vapo Oy Energy's best ever peat production year, and a new record of 27.3 million cubic metres was set. Vapo Energy had 420 employees during the year, and the peat production and transportation activities additionally provided work for more than 3 000 outside contractors and their employees.

During the year under review Vapo Energy produced a total of 27.3 million cubic metres of fuel and horticultural peat, which is an increase of 20% on the figure for 1996. The production target was exceeded by 4 million cubic metres. 1997 was the fourth consecutive favourable production year, as a result of which Vapo has ample stockpiles of peat.

Production was boosted by a period of dry weather which came just at the right time – in June and July. The beginning of June and the warm spell which lasted from mid July well into August provided particularly favourable production conditions.

Sales of fuel peat were down by more than 0.5 million MWh on the previous year. The reason for this was the liberalization of the electricity market, which resulted in electricity generated at condensing power plants being partially replaced by imports. The reduction in the utilization rate of the condensing power plants meant their fuel peat requirements also decreased.

The reduction in fuel peat consumption by condensing power plants was partly compensated by increased utilization on the part of other customers and by new customers. The new power plants at Enso Oy's Oulu and Kemi Mills, and the power plants at UPM-Kymmene Oy's Tervasaari and Rauma Mills had their first year of full-scale operation, and this helped to boost sales.

At present peat is used to produce district heating and electricity in the majority of inland urban areas as well as in several on the West coast. Peat accounted for more than 20% of all the district heating and more than 7% of all the electricity produced in Finland. Consumption of peat by industrial users was up and continues to rise.

Vapo's sales of peat for environmental purposes reached 0.9 million cubic metres, which is a slight increase from the previous year. The major use for this peat was on farms, where it is utilized as a bedding material and is also mixed with agricultural slurry. This peat was also supplied to horticultural peat processors and to users of Vapo Biotech's sludge treatment systems.

Last year Vapo Energy sold a total of 750 000 bulk cubic metres of wood fuels, which consist of sawmill by-products and forest chips. This is double the figure for the previous year. During the year Vapo Energy made significant investments to boost research, development and marketing of wood fuels.

Completion of Vapo Energy's quality system – which has been in preparation for the last three years – represented a major task during the year under review. On December 18, 1997 Det Norske Veritas granted an ISO 9002 quality certificate to Vapo Energy covering production, sales and supply of biofuels and environmental peat products.

The quality system puts Vapo Energy in an even better position to ensure the efficiency and quality of its peat production and supply operations. It will facilitate the identification and correction of any deviations from agreed procedures that might occur within the business activity. For industrial fuel peat users, the quality system will provide guarantees of the way in which the fuel they utilize has been procured.

An ISO 9001 quality system covering Vapo Energy's three engineering units was completed, and its effectiveness was tested and enhanced by means of internal evaluation last year. The introduction of the quality system will provide opportunities to develop higher quality operations based on customer needs.

Alongside the quality system, an environmental management system has also been developed within Vapo Energy. The system for the Western Finland Business Unit was completed in April 1997 and work on systems for the Eastern and Northern Finland units was begun.

A new energy tax was introduced at the beginning of 1997, and the main effect of this was to improve the position of natural gas as an energy source. The position of peat in relation to imported fuels remained unchanged. The purpose behind the change in the taxation system was to promote the development and utilization of indigenous biofuels, but in this regard its impact has been mixed. Only in a few years' time will it become apparent how the energy tax affects utilization of indigenous fuels.

An important issue for Vapo and the entire peat sector – which provides employment for 6 500 people in Finland – is the acceptance within the European Union that peat is a form of biomass. In Finland the classification of peat as a slowly renewing natural resource has been accepted. The Finnish national report to the International Climate Change Convention in Kyoto, for instance, stated that 'peat is not a fossil fuel'. It is important that peat is classified as a biofuel within the EU too, because that would allow Finland to continue to decide independently on the taxation of peat in future.

SEPPO SÄNKIAHO, DIVISIONAL DIRECTOR





7

VAPO OY ENERGY



The Finnish-based IVO Group considers the Nordic countries as its domestic market area. It is the second largest energy producer in the region, and especially in Sweden its operations have expanded rapidly in recent years. IVO's plants generate power using hydro and nuclear power, coal, natural gas, peat and other biofuels.

"We made a deliberate choice to utilize a number of different fuels, as this guarantees stable electricity prices and high levels of supply reliability. In Finland fuel peat has an important part to play – it is an indigenous "Peat occupies an important

position in our power generating operations," says Kalervo Nurmimäki. Each year Vapo supplies 4–5 million cubic metres of fuel peat to IVO.

KALERVO NURMIMÄKI, CEO, IVO GROUP: "LONG-TERM VIEW IMPORTANT FOR FUEL SUPPLIES"

fuel and its availability is not dependent on fluctuations in the world markets," says Kalervo Nurmimäki, CEO, IVO Group.

IVO's first peat-fired power plants were completed in the mid 1980s in the cities of Joensuu and Jyväskylä. Since then IVO has chosen peat to fuel its condensing power plant in Haapavesi, its Kokkola plant, and other plants. The peat required by these plants is supplied by Vapo Oy Energy.

"The basic requirement for the construction of these plants was the existence of a peat supplier who could be relied on to supply on a long-term basis. We have to be sure that supplies of fuel will be available for the entire working life of the power plant without any interruptions," Kalervo Nurmimäki says.

The last few years have seen major upheavals in the Nordic energy markets, with the markets being liberalized first in Norway, then in Sweden and Finland, and finally in Denmark. Kalervo Nurmimäki, who has been in a very good position to follow these developments, states that fuel peat has retained its competitiveness as conditions have changed.

"At the moment competition is tough, because coal has been available at favourable prices on the world markets and excess production has reduced energy prices in the Nordic countries. However, I believe that peat will remain a viable energy source in Finland in the future."

SUBSTANTIAL INVESTMENTS IN DEVELOPMENT OF WOOD FUELS

In 1997 Vapo made substantial investments in the production of wood fuels, and in efforts to further develop production methods. At the end of the year 15 people were employed in the production of wood fuels, and Vapo Energy's output of these fuels increased to 750 000 bulk cubic metres. Of this total. 150 000 cubic metres consisted of forest chips. Production and utilization of wood fuels within the Vapo Group – including Vapo Timber – totalled 1.5 million bulk cubic metres. At the end of the year Vapo had more than 50 customers around Finland utilizing wood fuels.

Vapo has developed its own method of producing forest chips that are competitive in terms of both quality and price. This system is based on the use of peat



The specialpurpose trailer developed by Vapo is an important link in the new method for producing forest chips. production sites as 'terminals' for processing wood fuels. A peat or farm tractor loads logging residues into a purpose-designed trailer. This is then driven to a terminal, where the residues are unloaded and stacked. They dry during the summer, and in the following winter they are chipped - using a tractor-mounted chipper, for instance – and then delivered to a power plant or district heating plant. This method guarantees reliable supplies of forest chips to the customer and ensures that machinery and equipment is used more efficiently.

In Lieksa Vapo Energy continued testing of its Circulating Fluidized Bed (CFB) Dryer and Chemi-Mechanical Reactor (CMR) Burner. The dryer is intended for drying biofuels, and the burner enables oil-fired boiler plants to be converted for use with biofuels. On the basis of trials conducted with the burner, the goahead was given for construction of a 2 MW CMR heating plant adjacent to Vapo's Tikkakoski heating plant. The plant will go into operation during spring 1998, and it will undertake tests linked to the commercialization of the new heating plant technology.

> 8 VAPO



Hankasalmi Sawmill has a reputation for quality. The people behind Hankasalmi's reputation include Kari Tuukkanen, Pekka Häkkinen, Pasi Kuokka, Risto Puura, Sauli Viljamaa, Vilho Sepponen and Vesa Levänen.

VAPO TIMBER GROUP RECORDS SOLID RESULT



The Vapo Timber group recorded a profit of FIM 101.7 million and a turnover of FIM 821 million in 1997. Solidity remained strong. The good results were due above all to a rise in the average prices of sawn timber and a high level of utilization in production. At the end of 1997 Vapo Timber Oy employed 430 people. The number of personnel was boosted by the 44 employees of Forssa Sawmill who entered Vapo Timber Oy's employment at the start of the year.

At the start of 1997 Vapo Timber Oy became a subgroup of the Vapo Group. The parent company is Vapo Timber Oy and its subsidiaries are Forssan Saha Oy, a sawmill purchased from Asko Oy whose operations got under way at the beginning of the year, as well as Vapo Timber Import Oy, a company founded in May which is involved in the wood procurement business in the Russian area of Karelia.

The early part of 1997 was positive for the sawmill industry, since the rise in the prices of sawn goods continued throughout the spring. The trend came to a halt in May when it became clear that the scarcity of raw material caused by highly increased log prices would not restrict production. The Europewide increase in the production of sawn goods which led to full storages exacerbated the over-supply. In the autumn of the year under review this caused an accelerating fall in prices and a reduction in sawmills' volume of orders in hand. The drop in prices affected whitewood in particular. In consequence it was necessary to resort to shutdowns at the end of December in order to restrict the over-supply.

In the first half of 1998 no significant rise in the prices of sawn timber is expected. Consumption for its part is running at a satisfactory level, but due to the favourable raw timber situation supply is still abundant. It is predicted that balance will be restored in the second half of the year and that the prices of sawn goods will demonstrate a clear rise. Profitability will be markedly influenced by the trend in the price of logs, which will likely be determined in companyspecific price discussions conducted with forest owners in the course of the spring. The significant decline in the prices of sawn timber must be reflected in the price of logs.

Vapo Timber's six sawmills produced a total of 649 000 cubic metres of sawn timber and further processed products. The production of parent company Vapo Timber Oy's sawmills grew by 18% as a result of gains in efficiency. The 28% increase in the group's total production is explained by the addition of a new unit, Forssa sawmill, which recorded production of 50 000 cubic metres. Vapo Timber's sawmills exceeded their production target and, despite the end-of-year shutdowns, production records were set at Hankasalmi, Kevätniemi and Nurmes. A total of 1.4 million cubic metres of logs were used.

Vapo Timber's exports amounted to 446 000 cubic metres, which constituted an increase of 15% on the previous year. 81% of the total value of deliveries was exported. The value of sawn timber exports was up by 36% and that of domestic sales by 52%.

As far as traditional export markets were concerned, sales to Germany, France, Holland and Denmark showed an increase. Export targets for the United Kingdom were not achieved in 1997, however, and the volume of exports to Japan experienced a clear fall.

The decrease in business with Japan had its roots in the country's economic difficulties and concomitant effects on the local construction industry. In addition the tax on consumption which was raised during the spring put a brake on building activity and drove down demand for sawn timber. In the United Kingdom the significant increase in the supply of sawn timber from the Baltic states intensified competition in certain segments of the sawn timber market and also caused uncertainty in the market for Scandinavian sawn goods. What is more, exports of further processed sawn goods from the United Kingdom were affected adversely by an over-strong pound, which served to reduce timber purchases.

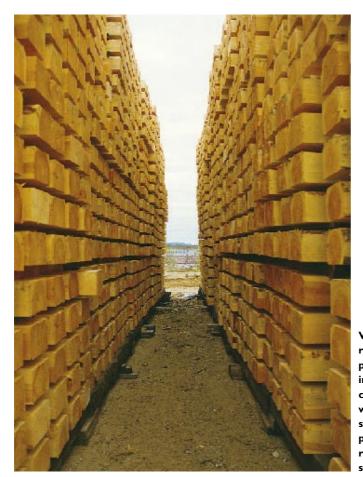
In France Vapo Timber Oy safeguarded its sales position by acquiring a holding in its local agent, Agence Konow & Smith. The same type of arrangement was carried through earlier in the United Kingdom, where Vapo Timber Oy is a part owner of UCM Timber PLC.

Investments of note during the year under review were the renovation of Hankasalmi Sawmill's debarking and log receiving units as well as the extension of the drying-kilns. These constituted part of a six-year development programme, during which time the sawmill has been completely modernized at a cost of FIM 75 million. At Nurmes Sawmill one unfinished task was the trimming plant investment, which was brought to completion in February 1998. During the review period a total of FIM 25.5 million was spent on investments.

People's general concern for the state of the environment is also exerting an influence on the sawmill industry. Customers and consumers are demanding information as to the origins of the raw timber and the environmental impact of the sawmill's activities. At Vapo Timber's sawmills every effort is being made to reduce strains and burdens on the environment to an absolute minimum. Environmental management systems are currently being set up at Hankasalmi, Kevätniemi and Nurmes sawmills. It will then be the turn of the smaller sawmills to acquire such systems.

JUHA TUOMINEN MANAGING DIRECTOR





Vapo Timber's research programme includes collaboration with VTT to study ways to prevent rot in railway sleepers.

SAWMILL INDUSTRY ENGAGED IN JOINT RESEARCH

The coordination of research

activity in the sawmill industry is chiefly the responsibility of Finnish Wood Research Ltd, owned jointly by companies in the mechanical forest industry. As one of the company's shareholders Vapo Timber Oy is involved in projects benefiting the branch as a whole. Similarly the company is a shareholder in Metsäteho Oy, which conducts research associated with wood procurement, harvesting and forest cultivation.

Thanks to these holdings Vapo Timber Oy is able to play an active role in preparing, planning, implementing and financing such projects. In addition Vapo Timber's sawmills have served as pilot units in a number of research studies. Last year, for example, tests connected with channel drying as well as a comparative study of sawing methods were carried out at Kevätniemi Sawmill.

Last year Vapo Timber's own research and development activity concentrated chiefly on methods development together with market and customer studies. including a survey of customer satisfaction conducted by Vapo personnel. In addition, research into new ways of preventing rot in railway sleepers was launched in cooperation with the Technical Research Centre of Finland (VTT). The main source of funding for the project is the Technology Development Centre, Finland (TEKES).

Two full-time staff were involved in research and development at Vapo Timber Oy in 1997. The R&D budget amounted to some FIM 2 million.

FURTHER PROCESSING OF SAWN TIMBER UNDER EXAMINATION AT VAPO TIMBER OY

Vapo Timber Oy is currently engaged in studying what additional possibilities further processing can offer the group's sawmills. The task was begun in autumn 1997 and the aim is to investigate whether it would be worthwhile for Vapo Timber Oy to expand its value-added production and if so, in which direction.

"The first part of our job is to establish the market situation, since before making decisions on measures to be taken we have to know what products are in demand. Only then will we begin, should it prove necessary, to tackle problems associated with technology, distribution channels and the products themselves", states Eero Lehtonen, Director, Hankasalmi Sawmill, who is heading the project.

In order to support the project into developing the company's value-added business a market research study was launched in the United Kingdom last autumn. The results will be available in the spring of 1998. The market situation will also be closely examined in other potential export areas.

"No decisions about further processing activity have yet been taken. These will be made later on the basis of various factors, including the results generated by our market research studies", Lehtonen continues.

Of Vapo Timber's sawmills Hankasalmi currently processes a significant proportion of sawn goods into semifinished products for the construction industry among others. The turnover of its further processing business amounted to FIM 40 million last year. The majority of the valueadded products were sold in the domestic market.



The team at Kekkilä's Parkano plant includes Markku Lempinen, Juha Silomäki, Teuvo Kaunismäki, Heikki Törmä and Keijo Rikola.

STEADY PROGRESS WITH IMPROVED PROFITS



The Kekkilä group reported an operating profit of FIM 8 million for 1997, which is an increase of FIM 4.1 million over 1996. The group's turnover was FIM 150 million, up by FIM 9 million. During the year under review Kekkilä Oy employed an average of 140 persons.

For Kekkilä, 1997 was a year of steady progress. The group's profitability improved and its sales increased in both the domestic market and in the Danish and UK subsidiaries. These results were achieved by conventional means: special efforts were focused on selling, further cost-cutting measures were implemented, raw material procurement was rationalized and production control was improved.

In Europe 1997 proved to be a better year than 1996 in the whole of the professional and hobby gardening sector. The general atmosphere of economic optimism could be seen in increased demand for this sector's products, and this boosted sales of growing media and fertilizers. In Finland, by contrast, the overall market contracted by 3%.

Sales of products targeted at the Finnish hobby gardening market increased by 6%. This was a good result, coming as it did on top of an almost 30% increase in 1996. The factors behind this growth are Kekkilä's good products, the company's pro-active work to boost sales, and systematic efforts to develop the Kekkilä brand.

Kekkilä retained its market leading position in the production of landscaping materials in the greater Helsinki area. Sales in this product category grew last year in line with increased construction activity. The fastest growth was recorded in the case of construction projects by town authorities and other public bodies.

In the professional markets Kekkilä has concentrated on tailor-made fertilizers and closed growing systems – peat growing boards – for vegetable cultivation. From the customer's point of view, comprehensive technical sales support and advice on product utilization are important services.

In the fertilizer segment competition grew significantly last year and production costs increased with the rise in dollar-based raw material prices. Together, these factors reduced the profitability of fertilizer production.

Kekkilä increased its share of the market for closed growing systems. One of the factors behind this success was the introduction of new products: growing media tailored to customer needs, and the new rose board for perennial cut flowers. Future prospects for glasshouse growers are brighter than expected: the number of producers has not decreased as much as was anticipated when Finland joined the EU, and some growers have already decided to take the step of investing in new glasshouses.

Exports from Finland increased by 5%. There was particularly strong growth in exports to Japan, Sweden, Italy and France. In this context, special efforts were made to work in closer cooperation with importers and to concentrate on profitable products.

Within the Kekkilä group, the unit reporting the best improvement in profitability was Stenrgel Mosebrug A/S, the Danish subsidiary. Having recorded a loss in 1996, it produced a clear profit in 1997. The main factor behind this improvement was a 16.5% increase in overall sales.

Action begun in 1996 to rationalize the operations of VapoGro Ltd, the UK subsidiary, can be seen in this unit's results. The strategy of concentrating on profitable products and markets proved to be correct, as the unit's profitability improved while its sales remained at the 1996 level.

In 1997 Kekkilä invested a total of FIM 12 million in a number of projects. The most important of these were the new packing machine for the Parkano plant, and the new peat processing line and dust filtration system for the Eurajoki plant. A peat preprocessing system was built at the Danish plant, and the UK plant was relocated from Shoreham to Newhaven. The introduction of Lotus Notes software in all of Kekkilä's locations in Finland represented a significant investment in information systems.

In 1998 the Kekkilä group aims to achieve another year of steady progress in terms of profitability. Three themes have been introduced to help Kekkilä to reach this objective. The first theme involves ascertaining whether there is a need to launch the Kekkilä brand in the professional markets, and whether the brand would be competitive in those markets. The necessary surveys are already being done in Finland, and analysis work is being undertaken in the export markets.

The second theme is 'quality production'. As a slogan this has perhaps suffered from over-use, but the underlying concept is always important. Linked to this theme, work will begin in 1998 to prepare an ISO 9000 quality system. The third theme – ''dream team'' – recognizes that Kekkilä's most important success factor is its personnel, and that the group has made a lot of progress over the last couple of years towards the creation of its own corporate culture. This theme challenges Kekkilä's employees to strive for a better atmosphere in the workplace. A two-year supervisor training project linked to this theme will be launched during the spring.

MATTI HILLI, MANAGING DIRECTOR



Kekkilä Oy

PEAT GROWING BOARDS INCREASE MARKET SHARE



All of Finland's glasshouse strawberry growers utilize peat growing boards.

Utilization of Kekkilä's peat

growing boards among Finnish glasshouse growers is rapidly increasing. Sales in the domestic market doubled from 1995 to 1997, but exports still represent some 75% of this market.

A form of ready-to-use growing media, the growing boards are supplied in plastic packs. They are mainly used for growing vegetables, but Kekkilä has also developed a rose board for flowers and a strawberry board for strawberries and other berries. The success of the peat boards is explained by their excellent growing characteristics, their recyclability and their environmental compatibility. The fact that they are made in Finland has helped to boost sales in the domestic market.

"For Finnish vegetable growers it is essential that consumers appreciate Finnish grown vegetables, and our peat growing boards effectively increase the domestic content of the product. The boards are environmentally compatible as 30% less water and nutrients are required than with competing products. This is because the water and nutrients are 'bound' into the peat. And once the boards have been used, they can be recycled by composting," says Mikael Johansson, Kekkilä Oy's Marketing Manager.

KEKKILÄ'S BRAND BUILDING PROJECT SUCCESSFUL

Sales of Kekkilä brand products almost doubled over the period 1995–1997.This shows that the Kekkilä brand has been successfully established.

The objective was to create a consistent and easily differentiated image with strong continuity, an image which emphasizes the high quality of Kekkilä's products. The idea was to differentiate the Kekkilä brand from its competitors, so that customers would perceive it as a clear alternative.

The image is based on four main elements emphasizing the atmosphere of beautiful gardens, the enjoyment of gardens by people who care for them, and the success that is felt when good results are achieved by using the best available products.

Work on building the new image began in 1994 with an in-depth analysis of the Kekkilä brand's strengths and weaknesses, and of Kekkilä's position in relation to its competitors. Work was also done to analyze consumers' gardening behaviour.

Brand building measures included new packaging and consistent advertising to raise Kekkilä's profile. The garden and potting composts and fertilizers were given a new, uniform visual appearance to promote easy brand recognition by consumers.

Over the years 1995–1997 the main efforts to create the Kekkilä brand image consisted of magazine and point-of-sale advertising, and the introduction of uniform packaging. In 1998 TV advertising will be used to broaden the brand's consumer base.

In the gardening sector, sales outlets are increasingly operating on a self-service basis, which means that products have to be able to sell themselves. This is a significant motivation behind the decision to create a clearly differentiated brand, as consumers in self-service outlets tend to notice the best-known branded products.

The Kekkilä brand appeals to consumers: sales doubled from 1995 to 1997.





Vapo Oy Biotech

The power of teamwork. Members of the Vapo Biotech team: Aimo Kirjavainen, Antti Leskinen, Reino Niemi, Kauko Isomöttönen, Erkki Jaala and Esko Pajula.

A YEAR OF PROFITABLE GROWTH



In 1997 Vapo Oy Biotech tripled its turnover to FIM 31.4 million. Its payroll increased to 13 employees, in addition to which outside contractors were employed in building tunnel composting plants and biofilters.

For Biotech and Wastech, 1997 was a year of profitable growth. Long-term and systematic work in previous years to develop products and bring them to market is now bearing fruit: Vapo's environmental business activity is growing and in 1997 its volume reached a level at which it provided satisfactory profitability.

Four tunnel composting plants were completed during the year. These are located in Hanko, Korkeasaari, Varkaus and – constructed for the Helsinki Metropolitan Area Council – in Espoo. All four were officially handed over on schedule in December 1997. Two plants are currently on order: the Mäntsälä tunnel composting plant will be completed in summer 1998, and the plant to be constructed for Mustankorkea Oy, the company responsible for waste handling in the Jyväskylä area, will be ready in the late summer. New orders for plants will probably come in during 1998, because many municipal authorities and waste handling companies are presently considering how to organize the processing of biowastes and sludges.

Last year Biotech entered into its first operating agreement for a tunnel composting plant. The agreement was concluded with Länsi-Uudenmaan Jätehuolto Oy, a waste handling company, and it concerns the operation of the new tunnel composting plant to be built in Hanko. Vapo owns the plant and is responsible for its operation, as well as for marketing and selling the compost produced. A similar operating agreement has been made with the water utility in Mäntsälä, and Biotech will also operate the Helsinki Metropolitan Area Council's composting plant, at least for the duration of the guarantee period.

Biotech supplied nine biofilters during 1997, and in February 1998 a further three units were on order. In total Vapo has sold 32 biofilters, which are being used to treat malodorous gases at composting plants, sewage treatment plants and pumping stations, animal feed factories and food processing and other plants in Finland, Sweden, Norway, the UK and the Netherlands.

Efforts to break into the Dutch market brought good results, as the De Meerlanden composting plant near Amsterdam acquired a Biotech biofilter last year. This was an important sale, as there is a big market for air treatment equipment in the Netherlands. With the introduction of stricter environmental legislation and increased capacity, many plants will have to upgrade their air filtering systems in the near future.

As with its tunnel composting plants, Biotech also offers operating agreements for its air treatment systems. When the customer chooses this option, Biotech assumes responsibility for construction, operation and servicing of the biofilter. By the end of 1997 Biotech had entered into a total of six operating or maintenance agreements.

As in the previous year, Biotech provided a sludge treatment service using two spin-dewatering units built on articulated trailers. In northern Finland this service mainly operates outside urban areas, treating septic tank sludge. In southern Finland the service has also been utilized by companies in such sectors as potato processing, oil refining and leather production. The northern Finland operations were reorganized at the beginning of the year, with the activities of Biolappi Oy being transferred to Vapo Oy Biotech.

A long-standing project to reorganize waste handling in the Jyväskylä region was concluded last October with the joint establishment of a new company, Mustankorkea Oy, by Vapo and municipal authorities in the area. Vapo Oy has a majority holding of 55% in the company; the remaining shares are owned by the City of Jyväskylä (26%), Jyväskylä Rural District (10.6%), Laukaa (5.8%) and Muurame (2.6%).

The extensive nature of the Jyväskylä region waste handling project makes it an important and interesting one for Biotech. The project includes the management of landfill sites, composting and the production of refuse derived fuel. Composting and dry waste shredding plants will be constructed at Mustankorkea's waste processing centre, and these will make their own contribution to Jyväskylä's development into a centre of excellence in environmental technology.

Biotech is now in the growth phase of its development. Competition in the environmental business sector is tough, but Biotech has the potential to succeed because its products and service concept have been proven effective in actual use. This was confirmed last year by a survey which showed that Biotech's customers are satisfied not only with the company, but also with the plants and services it has supplied. V

KARI MUTKA, SENIOR VICE PRESIDENT





FOUR TUNNEL COMPOSTING PLANTS STARTED UP IN DECEMBER

In 1997 four new tunnel composting plants supplied by VAM Vapo Wastech Ltd Oy were completed. The plants went into operation in December.

The tunnel composting plant constructed in Espoo for the Helsinki Metropolitan Area Council is the largest in Finland, and it can process 30 000 tonnes of biowaste from the Helsinki region each year. The Hanko plant can process 15 000 tonnes of municipal and industrial sludges per year.

The tunnel composting plant in Varkaus will handle 8 000 tonnes per annum of sludges and biowastes from the town. The plant at Korkeasaari Zoo in Helsinki will process all the biowastes produced at the zoo. This includes manure and bedding from the animals, and biowastes produced by the catering operations, for an annual total of around 600 tonnes.

The four plants are very different in terms of their size

NEW WASTE HANDLING COMPANY ESTABLISHED FOR JYVÄSKYLÄ REGION

Mustankorkea Oy, a new company jointly established by Vapo Oy and the local authorities in the City of Jyväskylä, Jyväskylä Rural District, Muurame and Laukaa, began its operations at the beginning of 1998. It is responsible for handling biowaste, dry waste, landfill refuse and sewage sludge from all four local authorities in

and material to be composted. They share the same basic technology, however, and in all four cases the customers have stated that they are pleased with the way Wastech has handled the project.

"We had an excellent working relationship with Wastech during the construction phase, and I'm sure this will continue into the future. Of course, it's still too early to really say anything about the quality of the final product, because the plant has only been operating for a very short time. It will be very interesting to see what the results are like," says Mauri Uusihakala, Construction Manager, Helsinki Metropolitan Area Council.

The Council opted for Wastech's plant operating service, at least for the duration of the guarantee period. Biotech has also concluded an operating agreement with Länsi-Uudenmaan Jätehuolto Oy for the Hanko plant, which will be owned and operated by Vapo.

the joint venture. Its responsibilities also include marketing the products generated by waste processing, and maintaining landfill sites. Additionally, the company will offer its services to other local authorities and corporations.

To begin with, Mustankorkea took responsibility for managing the three landfill sites in the Jyväskylä region. Planning and construction of waste processing plants has already begun. The first to be implemented is a tunnel

The Helsinki Metropolitan Area Council's Ämmässuo composting plant went into operation in December 1997.

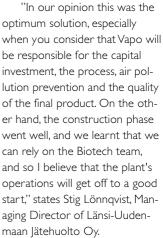
Mustankorkea

Veikko Tissari.

Oy's

Managing

Director



Petteri Wilenius, Director of Technical Services for the municipal authority in Varkaus, is pleased that the Varkaus plant was completed according to plan in spite of a very tight timetable: "We had a good working relationship with Wastech. Of course from now on the most important factor will be the quality of the final product, which we can't say anything about yet, so soon after the plant started up."

Matti Hiltunen, Chief Gardener at Korkeasaari Zoo, who is responsible for the operation of the zoo's composting plant, shares this view: "Our working relationship with Wastech during the construction work was good, and the plant itself has met all our expectations. A major challenge for the plant and its operators will be to maintain the high quality of the output material, because there are big seasonal variations in the material to be composted."

composting plant, which will be completed in summer 1998.

The second phase involves construction of a dry waste shredding plant, which will produce refuse derived fuel. This is scheduled for completion during the first half of 1999. The composting and shredding plants will be built at Mustankorkea's waste processing centre, where it is intended that Finland's first waste processing laboratory will also be built.



In June 1997 an environmental trail was opened to the public at the Aitoneva site in Kihniö. Peat production at the site was discontinued 40 years ago. Part of it has reverted to its original wetland state and part has been afforested.



ENVIRONMENTAL POLICY PROVIDES A SOLID BASIS FOR ENVIRONMENTAL ACTIVITIES

Vapo's business operations involve the processing of natural resources. Therefore it is important that we understand all the environmental impacts caused by our activities and that we can develop our working practices and procedures in line with our environmental policy. Last year this work included life cycle analyses, development of environmental parameters, preparation of environmental management systems, and the issuing of updated instructions.

The effects of the water protection measures implemented over the last few years can now be seen in significantly reduced watercourse loads. New data has also been acquired on the after-use of peat production sites and the related impacts. In the context of timber procurement and the preparation of peatland for production, work has been done to build up knowledge about the recognition of special environmental features and their significance for Vapo's operations. Many different steps have been taken to enhance Vapo's environmental management and increase our employees' environmental awareness.

Vapo's environmental principles have been collected together to form the Group's environmental policy. The policy specifies that Vapo should develop its operations in such a way that environmental impacts are minimized, special environmental features are taken into consideration, the entire life cycle of each activity is recognized and sustainable development is promoted. On the basis of the environmental policy, separate environmental programmes and sets of principles have been drawn up for the various business activities.

The objective of the environmental policy is to ensure that Vapo meets the obligations inherent in its activities and, by means of management systems and internal reviews, to control and monitor the work that has been done. This requires that customers' environmental needs and values are taken into consideration and products are developed accordingly. Furthermore, it is necessary to evaluate the environmental values related to raw material procurement, utilize the optimum and most cost-effective environmental technology, and ensure that sites released from production are restored and utilized.

Further objectives include the development of new products to resolve environmental problems and the analysis of environmental impacts caused by Vapo's operations and products. It is important to arrange environmental training and secure the commitment of all employees to be aware of and manage the environmental impacts of their own activities, and to maintain a policy of open and pro-active communication of environment related matters.

PIRKKO SELIN, ENVIRONMENTAL MANAGER

THE GREENHOUSE EFFECT AND PEAT PRODUCTION

In early December 1997 the second International Climate Change Convention was held in Kyoto, Japan. The convention which is linked to the Rio Agreement - set binding targets for the reduction of greenhouse gas emissions by the industrialized countries. Finland participated in the convention as a member of the EU. The target for the EU was set at an 8% reduction, and Finland's share of this target will be determined later in internal EU negotiations. Finland's target will probably be to reduce emissions to the 1990 level, which is a tough target for a country like Finland with an advanced energy structure.

Under the terms of the agreement, each country must identify its own sources of emissions and carbon dioxide sinks. Sinks are natural features of the ecosystem which bind carbon dioxide from the atmosphere into new growth on a long-term basis. In Finland, the growth of peat represents one such natural carbon dioxide sink.

Trees growing on peatland drained for forestry bind carbon and reduce emissions of methane, but this has been forgotten in the debate about peat and carbon sinks. The majority of the peatland taken into production has previously been either entirely or partly used for forestry. This peatland has then later proved to be badly suited for growing trees and therefore not economically viable for forestry. The drainage of these sites for forestry, and subsequent additional drainage for peat production, has reduced their methane emissions and therefore helped to slow down the greenhouse effect.

In 1997 the utilization of peat for energy production resulted in carbon dioxide emissions totalling some 7 million tonnes, which represents around 9% of the total carbon dioxide emissions from energy production in Finland. At present, Finland's peatlands use more carbon dioxide in the growth of new peat than is released into the atmosphere through the utilization of peat.



Vapo's 1997 environmental

award went to Jorma Honkanen, Regional Service Unit Manager in the Western Finland Business Unit. He played a significant role in setting up and implementing the environmental database, which was taken into use in 1997.

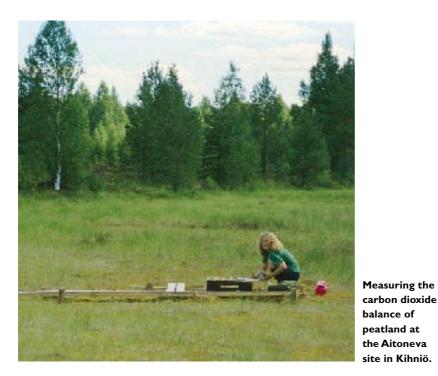
Jorma Honkanen (left) receives Vapo's environmental award from Managing Director Esko Muhonen.



JOINT ENVIRONMENTAL SURVEY BY SAWN GOODS PRODUCERS

In 1997 Vapo Timber participated in a joint environmental survey coordinated by the Finnish Forest Industries Federation. The survey includes data on all the environmental impacts caused by sawn goods production, including emissions, waste, and the use of energy and materials.

This environmental survey will increase awareness of the environmental impacts caused by sawmills. It will also be a useful tool when preparing environmental declarations for use in product planning or building design.



19



ENVIRONMENTAL MANAGEMENT SYSTEMS MAKING GOOD PROGRESS

Work has begun to prepare

environmental management systems for Vapo Energy's business units and Vapo Timber's sawmills. Kekkilä Oy has also started preparatory work to create its own system. Environmental management systems form part of the operating model specified in Vapo's environmental policy.

Vapo Energy's first system completed

Vapo Energy finalized its first environmental management system in April 1997 in the Western Finland Business Unit. Work is now being continued in the Northern and Eastern Finland Business Units.

The systems are based on the ISO 14001 standard, which provides an internationally accepted model for preparing environmental management systems, and they are complementary to quality systems. Knowledge about the entire peat production life cycle from land procurement through to final utilization has been documented in the environmental manual, and at the same time updated instructions have been issued.

Lauri Ijäs, who is responsible for environmental issues at Vapo Energy's Western Finland Business Unit. The binders contain documentation for the unit's environmental management system.

During 1997 Kekkilä Oy's environmental impacts were surveyed, and work was begun to gather data for company's environmental parameters and prepare an environmental management system.

During 1997 environmental audits were completed at the production sites and objectives were created for the regional service units. Those participating in the audits were given a concrete introduction to the environmental management system and its utilization. Lauri Ijäs, who is responsible for environmental issues in the Western Finland Business Unit, says that participants gave the audits a positive reception.

"The audits were seen as useful. A significant factor is that in addition to Vapo personnel, our contractors and their employees also took part in the audits. It is important that all those involved in peat production operations should internalize the principles of the environmental management system, and that they should be in a position to influence and enhance it."

Work continues at Vapo Timber

During 1997 environmental management systems were prepared at Vapo Timber's Hankasalmi and Kevätniemi Sawmills, and in the company's timber procurement activity. Preparation of a system at Nurmes Sawmill was begun. This work will continue during 1998 with audit training, and the systems will be completed during the spring. At Hankasalmi and Kevätniemi, the environmental management systems will be integrated into the quality system. In the timber procurement activity and at the other sawmills, the system will be implemented in the form of operating instructions in line with the ISO 14001 standard.

The environmental management systems pay special attention to the origins of the timber and the logging process. The system specifies certain principles, and these must be followed both in the company's own timber procurement and by external timber suppliers. Vapo Timber considers it particularly important that the origins of timber supplied from Russia are verified.

The preparation of environmental management systems shows that Vapo Timber's sawmills are seeking to meet their environmental obligations. The systems provide extensive coverage of the various production stages and of emissions management.



VAPO



Jyrki Vertanen analyzes peat dust at Vapo's laboratory.

AQUA PEAT PROJECT STUDIES DUST AND NOISE IMPACTS

In 1997 Vapo Energy focused special attention on the dust and noise impacts of peat production. Potential impacts have been studied in the Aqua Peat III research project, which has been undertaken together with the Finnish Meteorological Institute, the Institute for Environmental Research at the University of Jyväskylä, and the National Public

The project has concentrated on the formation of dust and noise levels in different production phases, as well as the spread of dust and noise into the environment.

Health Institute.

The results of this research can be utilized in planning for new sites to be taken into peat production and in selecting production methods for existing sites. The results will also help in the development of working procedures and equipment to reduce dust and noise problems. The new pneumatic harvesters taken into use represent a good example of these types of solutions.

REDUCED LOAD TO WATERCOURSES

In the context of the Aqua Peat and other projects, Vapo

has done a great deal of work over the last few years to reduce watercourse loading from peat production sites. Monitoring has shown that the load to watercourses from Vapo sites has decreased by more than half during the 1990s. When considering annual figures it is important to bear in mind that year-onyear differences in weather conditions, and in particular rainfall figures, can change the load from one year to the next.

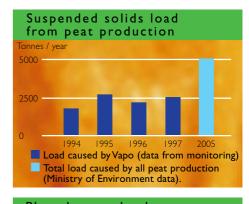
The water authorities have set an objective for all peat producers to reduce the load of suspended solids by 65% and the total phosphorous and nitrogen load by 30% from the 1993 level. In 1997 Vapo's share of watercourse loading from peat production was clearly smaller than the company's output volumes would suggest.

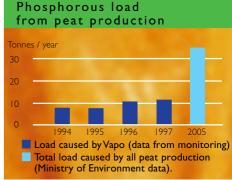
The basic water treatment methods at Vapo's peat production sites are sedimentation ponds and pipe barriers. Additional methods introduced during the 1990s include overland flow, soil infiltration, control of run-off peaks, chemical treatment and sub-surface drainage. V

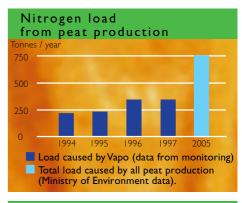
Load to watercourse g/MWh

Year	Suspended solids	Phosphorous	Nitrogen
1994	81	0.40	10.0
1995	122	0.38	10.0
1996	106	0.50	16.3
1997	94	0.40	12.6

Net loading of suspended solids, total phosphorous and total nitrogen per megawatt hour at Vapo's peat production sites, 1994-97. Equivalent emission figures are not available for other fuels.









COOPERATION WITH INTEREST GROUPS ON ENVIRONMENTAL ISSUES

Raimo Heikkilä, a senior researcher at the Kainuu Environment Centre, has drawn up a list of peat bogs which are not included in conservation programmes and which are of interest to peat producers, the environmental authorities and nature conservationists. These evaluations have been used in preparing the Natura 2000 nature protection programme. Raimo Heikkilä is also a member of a joint working group set up by Vapo and the nature conservation authorities to seek agreement on the utilization of bogs in the Ostrobothnia and Kainuu regions. Working on the basis of Raimo Heikkilä's list, the group has considered forms of utilization for a couple of hundred sites.

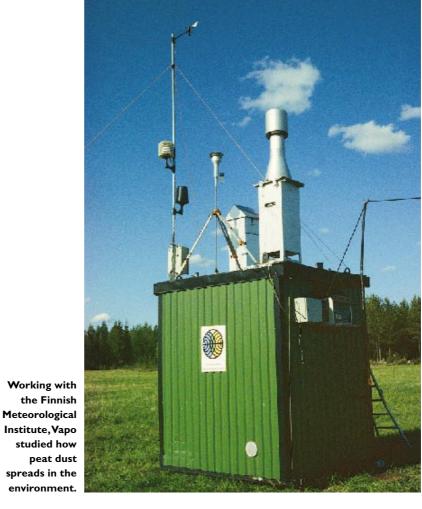
"Actual conflicts between nature conservation and peat production arose over a few dozen sites, and we have really sought compromises in those cases. There are differences of opinion, and there are a few sites that have caused friction, but the process has been relatively painless," Raimo Heikkilä says.

The results show that the two sides do have a desire for compromise. "There were a few cases where a site was allocated for peat production in spite of special environmental features, especially if another site in the vicinity had been left in its natural state. And on the other hand, there are many sites which the peat producers have given up," he explains.

During 1997 the group's



Raimo Heikkilä.



work reached its final stage and agreement was reached on most sites. In addition to Vapo and the regional Environment Centres, the members of the group also represent the Finnish Environment Agency, the Metsähallitus Forest and Park Service, and the Trade and Industry and Environment Ministries.

From Vapo's point of view important interest groups in the context of environmental issues are – in addition to nature conservationists and the environmental authorities – the Group's customers, its personnel, and the external contractors whose services it uses. Vapo has studied its customers' environmental values and the requirements they make of Vapo's products.

Other significant partners are the owners of the production sites, timber vendors, and those who live or work near to production sites. Practical matters have been settled in negotiation with representatives of municipal authorities and local employment and business promotion offices. The permits necessary for Vapo's production operations are processed by the Water Rights Courts, the Water Rights Appeal Court, and the Supreme Administrative Court.

In environmental matters Vapo utilizes the services of different types of outside organizations. Environmental consultancy companies perform loading measurements, and Vapo also works with universities and environmental, agricultural and forestry research institutes. Vapo has collaborated on research projects with Finnish Wood Research Ltd, the National Public Health Institute, Ekokem Oy, and other organizations. Students and researchers studying areas that touch on Vapo's activities also represent important partners.

In 1997 an academic thesis was completed at Lund University in Sweden on the subject of control of run-off peaks at peat production sites. The field work for this study was performed at Vapo's production sites. Dr. Björn Klöve, the author of the study, states that the greatest benefit from run-off control is the reduction in suspended solids loading. At the same time the phosphorous load is also decreased.

AFFORESTATION IS MOST COMMON FORM OF AFTER-USE

The total area of land released from peat production in Finland amounts to some 8 000 hectares. The majority of this is awaiting the release of other land still in production at the same site before it can be restored to its owners. The landowner always determines the final form of afteruse, and Vapo returns the site to the owner in accordance with the terms of the rental agreement.

The most common form of after-use has been afforestation. A total of almost 1 400 hectares of former production land has already been afforested. In addition some of the former peatlands have been taken into agricultural use or utilized for growing berries, herbs or vegetables. Some sites have been transformed into nature reserves, some allowed to revert to their former wetland state, and one site has been developed into an airfield.

Vapo has continued to study the after-use of production sites. Cultivation trials with reed canary grass (Phalaris arundinacea)



were continued during the year at the Ahmaneva site in Vihanti and the Hirvineva site in Liminka. At the latter site work has also been done in collaboration with the University of Oulu's Perämeri Research Station to study the development of a nature reserve and the related watercourse loading.Vapo also continued cultivation trials using berries and herbs at the

Former peat production sites totalling almost 1400 hectares have been afforested. Läyniönsuo site in Hankasalmi, which was done together with the Finnish Agricultural Research Centre.

Birds and insects were studied at the Aitoneva site in Kihniö and the Rastunsuo site in Rautalampi within the context of a biodiversity programme launched by the Academy of Finland. Research into carbon sequestering by peatland continued at the University of Helsinki.

PEAT PRODUCTION REQUIRES A WATER PERMIT

In Finland, peatland can only be taken into production if the necessary permit is granted by the Water Rights Court. This permit allows the water draining from the site to be led into the watercourse and specifies the water treatment method. The permit also stipulates the peat producer's maintenance and monitoring obligations and, possibly, obligations to implement specified measures or provide compensation.

In 1997 Vapo submitted six new applications for permits, and the court issued decisions on 17. By the end of 1997 Vapo had been granted a total of 73 water permits, and 36 were pending. In some of these cases the permit

Water permit applications by Vapo Oy: applications submitted and resolved								
year	92	93	94	95	96	97		
Submitted to Water Rights Court	13	22	10	15	13	6		
Resolved by Water Rights Court	T	14	14	16	12	17		
Resolved by Water Rights Appeal Court	I	2	12	10	13	5		
Resolved by Supreme Administrative Court	I		I.	L	I.	T		

had already been granted and work begun, but compensation issues had still not been completely settled.

In September 1994 new legislation on environmental impact assessment came into force. This applies to all new sites to be taken into peat production which exceed 200 hectares in area. Environmental impact assessment involves extensive study of the project's environmental impacts prior to the Water Rights Court proceedings.

In 1997 Vapo Energy was undertaking two environmental impact assessments, both in Ilomantsi. The assessment at the Puohtiinsuo site was completed, while that at the Koivusuo and Ruosmesuo site is still going on.

RESEARCH AND DEVELOPMENT



RESEARCH DEPARTMENT TAKES A LONG-TERM VIEW

Vapo's Research Department

undertakes a wide range of research work, both using its own are test-manuresources and in collaboration with external institutes. The Research Department mainly undertakes long-term research work which both serves the Vapo Group as a whole and the individual business activities. The separate businesses, for their part, are responsible for the actual development of products and equipment. In the case of Vapo Timber, research activities are arranged in collaboration with other sawn goods producers.

"The task of the Research Department is to look into the future. Our on-going work is focused on developing efficient, environmentally-friendly production methods, as well as new products for the future. An important aspect of our work is seeking out and screening information and knowledge that is already available. Also, we have to try and keep up with present and future trends," says Timo Nyrönen, R&D Director.

1997 saw the completion of two separate fuel peat life cycle analysis projects, which were undertaken by the Technical Research Centre of Finland (VTT) and the Finnish Environment Agency. These provided

Vapo, VTT and Wärtsilä NSD facturing pyrolysis oil using a pilot plant in Otaniemi, near Helsinki.

information about the ways in which peat production and utilization impact the environment. Vapo was involved in the projects and provided expertise, information, and funding. The analyses show that the environmental loading and impact caused by the production and utilization of peat are extremely small.

The two-year 'Peatland drainage and peat dewatering' project undertaken by VTT Energy was also completed during the year. This project was concerned with the harrowing process in milled peat production and it studied how the moisture level, number of passes, and harrowing method affect drying. As part of the project, a computer program was developed which calculates the correct harrowing time for different weather conditions. This program will be distributed for use by Vapo's contractors in 1998.

In 1993 a major research project was launched to study the production of "bio-oil" or pyrolysis oil from indigenous wood and other biomass, and this has now reached the pilot production stage. Testing work has now progressed so far that during 1998 it will be possible to calculate whether construction

of a larger-scale plant is economically feasible. Vapo is working together with VTT and Wärtsilä NSD in the project, and Neste Oy has also performed combustion tests on the pyrolysis oil.

Four new tunnel composting plants went into operation at the end of 1997, and this meant that during the year the Research Department performed a large number of composting trials using samples supplied by customers. For this purpose Vapo has been operating its own pilot composting plant since spring 1996. This plant enables the research team to identify the optimal mix and process parameters for each individual mixture of input material.

The Research Department has been involved in the further development of Vapo Biotech's biofilters. In the case of the peatbased filter, the objective is to increase the loading capacity and thus to reduce the necessary surface area.

Testing of the second-generation biofilter, Biohelmi ('Biopearl'), continued during 1997 using a pilot-scale unit, which was used to filter out hydrogen sulphide and carbon disulphide. Following two years of pilot-scale testing, Vapo Biotech is now in a position to construct a full-scale Biohelmi filter.

Another focal concern in the Biohelmi project has been its potential use for eliminating VOCs (volatile organic compounds). During 1997 test measurements were performed in practical operating conditions, suitable microbes were tested, and work was done to identify the optimum operating environment for the microbes.

For Kekkilä Oy the Research Department performs development related testing and analysis work on an on-going basis. In addition, Kekkilä and the Research Department have been jointly involved in the creation of a European standard for horticultural peat.

VAPO'S LABORATORY PROVIDES RESEARCH SERVICES FOR THE ENTIRE GROUP

Vapo's laboratory provides

research and analysis services for all the units within the Group. Composting related analysis for Vapo Biotech was the area of work showing the greatest increase during 1997.The laboratory also developed more accurate methods to assess and study the maturity and stability of compost.

The laboratory's odour measuring work is also related to the environmental business activities, and it is used in the testing and development of bioprojects. The most important of these concerned the development of European CEN standards for growing media. Vapo's laboratory has participated in related ring tests around Europe.

Within Finland the laboratory has been involved in a longer term project to develop new analysis methods to monitor growing media which fall within the scope of Finland's fertilizer legislation. The Plant Production Inspection Centre accepted and adopted these as its official



Minna Salonen uses an FTIR spectrometer to study the properties of compost.

filters. During the autumn the laboratory began work measuring and analyzing VOCs for the Biohelmi filter development project.

Vapo's project to develop the use of wood as an energy source increased the amount of wood fuel analysis which is performed for Vapo Energy. This was done to compile basic data on the characteristics of different types of wood fuels. In summer 1997 the laboratory also participated in an extensive survey to determine how much sheathed cottongrass fibre is present in the peatlands controlled by Vapo.

In addition to these analysis services for the Group, the laboratory was also involved in both domestic and international

methods at the beginning of 1998. The same methods are used in the new quality instruction issued by the Association of Finnish Peat Industry, and the laboratory was also involved in work to update this instruction. Other work in which the laboratory has collaborated with Finnish institutions include measuring power station mass balances for the SIHTI 2 research programme, and participation in the preparation of guidelines for quality determination and the creation of quality classifications for both wood fuels and refuse derived fuels (RDF).

A YEAR OF EXTERNAL NETWORKS

For Vapo Oy's Information

Management Department, 1997 represented a major step forward in the creation of external network connections. The most concrete manifestation of this was the opening of external e-mail links for Vapo employees with the adoption of Lotus Notes software.

Work was also begun to build network connections with key customers in order to speed up the transfer of information. In the case of Vapo Energy, for instance, this means the data contained in delivery notes. As part of the project to build external connections, a data security survey was undertaken and a 'firewall' was constructed to protect the information systems.

This work will be continued in 1998, when Vapo Timber's internal network will be developed and the Vapo and Kekkilä data communications networks will be linked. In a company like Vapo, which operates in many locations around Finland, an effective data communications network has a significant role to play in both the company's internal and external operations.

In 1997 work was begun to prepare for EMU and the Year 2000. An EMU working group was set up to study the timetable and possible impact of the adoption of the euro. Work was also done to determine whether computer software will need to be replaced to cope with the new millennium.



EMPLOYEE PARTICIPATION (EP) COMMITTEE MEMBERS

1.7.1995-30.6.1997

1.7.1997-30.6.1999

Salaried peat industry personnel

Jaakko Argillander (Lauri Korkeala) Ilpo Vuorela (Lauri Korkeala)

Peat industry workers

Teuvo Penttinen (Kauko Korhonen) Risto Saarikoski (Ilpo Viinamäki) Teuvo Penttinen (Ilpo Viinamäki) Riku Hakala (Kauko Korhonen)

Juhani Nevalainen

(Markku Salonen)

Hannu Turpeinen

(Eetu Karjalainen)

Heikki Miettinen

(Paavo Kivimäki)

(Juha Palokas)

Erkki Flink

Sawmill workers

Juhani Nevalainen (Juha Palokas) Erkki Flink (Eetu Karjalainen)

Forestry workers

Hannu Turpeinen (Reijo Hampinen)

Salaried forestry personnel

Heikki Miettinen (Paavo Kivimäki)

Sawmill supervisors

Juha Castrén (Veikko Manninen)

(Veikko Manninen)

Juha Castrén

Arja Koponen

(Kirsi Pennanen)

Merja Katajasalo

(Rauni Levola)

Salaried office personnel

Maija Kirvesoja (Kirsi Pennanen) Merja Katajasalo (Rauni Levola)

Senior salaried personnel

Ilkka Ilmavirta (Maila Salmelin) Ilkka Ilmavirta (Tenho Ruuska)

EMPLOYEE REPRESENTATIVES ON IN-HOUSE MAGAZINE EDITORIAL BOARD 1996-1997

Erkki Flink, sawmill workers Pentti Haataja, senior salaried employees Hannu Laukkanen, supervisors Anneli Ovaska, salaried office personnel Pauli Turunen, peat industry workers



SKILLED, ACTIVE PERSONNEL THE GOAL

Vapo Oy provides its staff with greater training opportunities than industry in general. Last year every Vapo employee spent roughly seven days engaged in some form of training. The figure is approximately the same as in 1996, when the training average for industry as a whole was five days a year per employee.

"The goal of training and other forms of staff development is to ensure that Vapo personnel are kept fully up to date, properly motivated and in possession of high-level skills. Training is also an excellent means of nurturing the Group's common culture and values", says Vapo 's Human Resources Director Eero Mäntylä.

Rapid changes in society and in the business world demand that staff training is a constant process. This is the only way to respond to challenges posed among other things by shifts in job content and duties, the drive to increase productivity, developments in terms of management methods and the desire to make full use of staff capabilities.

One trend affecting training is increased staff participation in

the management of the company's operations as well as their own. At the same time the role of those in supervisory positions is shifting further in the direction of staff development and training, as well as closer to customer service. At Vapo, too, many traditional management tasks have already been passed to teams.

Another trend which has to be taken into account when planning training is the rise in the mean age of Group personnel. This is a particularly clear phenomenon at Vapo, since at the end of the 1970s the company took on a lot of new staff and the official line has consistently been to avoid the use of early retirement schemes. In personnel policy the desire has been to act in a responsible and honest manner while maintaining a strict commitment to profitability. The aim is to keep staff fit for work right up to retirement age.

Where new personnel are concerned efforts are being made to create channels of employment in which the first contact with Vapo might occur via a period of practical training in summer, for example, or by



Vapo's employees spent an average of seven days in training during 1997.

producing a master's thesis or the like and progressing into fulltime employment in that way. This can naturally also be achieved via apprenticeship training.

In 1997 a Vapo training programme spanning several years and involving the whole staff was brought virtually to completion. The programme has covered profit thinking, management and cooperation feedback, project management, negotiation skills, self-knowledge training and communication. For Vapo's personnel the programme represents a way of acquiring the necessary qualifications for current tasks as well as a channel into specialist and general management duties. The programme is overhauled at 4–5 year intervals and is preceded by an assessment of training needs, the results of which then determine the content of the next training programme. The other training project which has involved the whole Group is team-work training, which has continued since the beginning of the 1990s. In the autumn a staff survey was conducted at Vapo with the aim of establishing employees' level of motivation, in other words their enthusiasm for work and

factors influencing this. The survey was the very first of its kind and will henceforth be conducted annually.

In Vapo Oy Energy trainer training concerning all personnel groups was started in 1997, the aim of which is to improve and maintain mental and physical fitness as well as to assimilate new ways of working. This programme of training will continue in 1998. The creation and maintenance of Vapo Energy's quality and environmental management systems also involved a great deal of training during the past year. Last year environmental systems were set up at Vapo Timber's Hankasalmi and Kevätniemi sawmills as well as in wood procurement. In the course of 1997 the first training sessions associated with this were also arranged. The actual audit training will be organized during 1998. At Kevätniemi sawmill internal and external customer service training was given, the goal of which was to boost efficiency and develop activities in areas designated as criteria for Finnish quality awards.

EMPLOYEE REPRESENTATIVES IN BUSINESS UNIT MANAGEMENT GROUPS 1.1.1996 - 31.12.1997.



Western Finland

 Tapani Koivistoinen (Kosti Kaukajoki)
 Sirpa Mäki-Pirilä

 I.1.1996-13.9.1997

 Heimo Pihlajamäki

 I.4.9.1997-31.12.1997



Eastern Finland

Teuvo Penttinen (Aarno Kuivalainen) Merja Koponen (Hannu Laukkanen)



Northern Finland

Jouko Niva (Eino Ämmänpää) Anneli Ovaska (Ensio Kauppila)





Veikko Manninen

Kevätniemi



└ Juha Palokas (Armas Ruokolainen) ─ Birgitta Kettunen (Merja Katajasalo)

Nurmes Reino Määttä







Peuravuono



Timo Nieminen Ilpo Viinamäki

REPORT OF THE BOARD OF DIRECTORS

Market conditions

The Finnish economy continued to make favourable progress in 1997, and this meant that demand for energy remained stable. Total energy consumption grew by 2% from the previous year to 354 TWh. Energy produced from indigenous sources amounted to 108 TWh, which is 31% of total energy consumed. Fuel peat accounted for 20% of energy from indigenous sources, and it generated over 7% of the electricity and more than 20% of the district heating produced in Finland.

The energy markets remained in a state of transition, and this was reflected in changes in the structure of the industry, increased activity in the markets among energy suppliers and buyers, and reduced electricity prices.

An amendment to the energy taxation system, implemented at the beginning of 1997, weakened the competitive position of fuel peat and wood fuels for electricity generation. In the case of wood fuels, the situation was corrected from the beginning of 1998 with the introduction of a tax exemption on the use of these fuels to generate electricity.

In the sawn goods sector, 1997 brought yet another major shift in market conditions. The year began with good demand and favourable price levels, but there was a sharp fall in prices towards the end of the year due to over-supply. Finland's total sawn goods output increased by around 11% from the previous year, and export deliveries were up by some 5%. Average prices for exports approached the level reached in 1994, which set a record for the 1990s. Exports by the Vapo Timber group increased by 15% and represented 6% of Finland's total sawn goods exports.

In Europe the overall market for hor ticultural products showed little growth, while in Finland there was a slight contraction. Sales of growing media and fertilizers were also impacted by cold weather during the spring, which delayed peak trading and reduced sales volumes to a certain extent. In Finland competition in the professional grower sector increased further with the entry of new fertilizer suppliers into the market. The Kekkilä group's turnover was up by more than 6%, with the greatest increase in sales being recorded in the Danish subsidiary.

As expected, markets in the environmental business sector showed rapid growth, which was accelerated by the introduction of more stringent waste disposal legislation. For Vapo Oy Biotech this situation was reflected in rapid business growth. During the year under review Biotech supplied a total of four tunnel composting plants.

Turnover

Group turnover was up by 13% from the previous year and totalled FIM 1861 million (1996: FIM 1645 million).

Most of the increase in Group turnover came from the sawn goods business, which increased its turnover by 31% from the previous year. The impact of the downturn in the sawn goods markets in the latter part of the year will not be seen in the delivery figures until those for 1998 are available.

Deliveries of biofuels decreased by 2% to a total of 19 TWh. The energy business recorded a turnover of FIM 834 million, which is of the same order as in the previous year.

The Parent Company, Vapo Oy, reported turnover of FIM 883 million (FIM 886 million), the Vapo Timber group FIM 821 million (FIM 629 million) and the Kekkilä group FIM 150 million (FIM 141 million). The figures for the Parent Company include the turnover of the environmental business activities, which amounted to FIM 31 million.

Operating profit

The Vapo Group recorded an operating profit of FIM 253 million (FIM 186 million) for the accounting period. The Parent Company, Vapo Oy, reported operating profit of FIM 140 million (FIM 167 million), the Vapo Timber group FIM 102 million (FIM 15 million), and the Kekkilä group FIM 9 million (FIM 7 million). The significant improvement in the Vapo Group's operating profit was mainly due to the improved results of the Vapo Timber group.Vapo Oy's financial result is in line with the development of its business activities and is stated after charging a provision of FIM 22 million for environmental purposes. The environmental business activity has now reached the commercial stage and produced a profit, and the Kekkilä group's operating profit is in line with the development of its business activities. The foreign business activities did not reach the targets that had been set.

Investments

The Vapo Group's total investments for the period were FIM 120 million. Of this total, the Parent Company accounted for FIM 73 million, the Vapo Timber group for FIM 35 million and the Kekkilä group for FIM 12 million.

The largest single investments were FIM 48 million to develop and expand peat production, FIM 4 million to implement environmental protection measures, FIM 12 million to upgrade the trimming plant at Nurmes Sawmill, and FIM 14 million to rebuild the debarking and kilning plants at Hankasalmi Sawmill.

Financing

The net decrease in long-term borrowing during the year was FIM 65 million (FIM 52 million). Interestbearing net debt totalled FIM 195 million at the end of the financial period. The majority of the investments were financed from income. The Group's solvency ratio at the year-end was 62% and its net debt ratio 15%.

The Vapo Group's net financial expenses were FIM 9 million or 2.3% of the operating margin. The liquidity position was good throughout the period and the current ratio (the ratio of current assets to current liabilities) was 2.4.

Changes in Group structure

At the end of the year Mustankorkea Oy was established in Jyväskylä to handle waste disposal activities in the lyväskylä region. The company began its operations at the beginning of 1998. This company's other shareholders are the local authorities in the City of Jyväskylä, Jyväskylä Rural District, Laukaa and Muurame, with a total combined holding of 45%.

Vapo Timber Import Oy, which was established to secure timber supplies for Vapo Timber Oy's Kevätniemi and Nurmes Sawmills, handles timber purchases for Vapo's sawmills from the Karelia region of Russia. It began its operations at the beginning of July, 1997.

The subsidiary company Biolappi Oy, which operated a sludge treatment service in northern Finland, ceased its business activities at the end of November 1997. The sludge dewatering operations are being continued by Vapo Oy Biotech.

Research and development

The Vapo Group's R&D activities are split between many separate fields, in line with the Group's different business operations. At the Group level projects aimed at increasing usage of biofuels have been a priority issue, and Vapo has supplied research data on the nature of peat as a form of bioenergy to the European Union.

The project to increase the utilization of wood as a source of energy has been one of the most important in 1997. Efforts to ensure that peat can maintain and improve its competitiveness have involved a number of projects to develop new methods and equipment. Research into the use of peat for non-fuel purposes has been undertaken with the objective of developing improved growing media and new peat fibre products. Intensive efforts have been made to develop Vapo Oy Biotech's products, and the results can be seen in increased sales and improved financial results.

Expenditure on research within the Group amounted to some FIM 24 million in 1997, and the Group employs 22 people in R&D on a full-time basis. During the summer 12 temporary research employees were taken on, and they were mainly involved in field research work. Collaboration with universities and research institutes has been both intensive and fruitful. Additionally, Vapo Timber Oy is a shareholder in Finnish Wood Research Ltd and Metsäteho Oy.

Environmental review

During 1997 development work was undertaken in line with the principles of the Vapo Group's environmental



policy. As a result of this an environmental management system was completed in the Western Finland Business Unit. The same work has now been started in Vapo Oy Energy's other business units. In addition to the development of new methods, research has also been done to study the life cycle of peat, the biodiversity of peatlands, and the dust and noise impacts Esko Muhonen caused by peat production.

Environmental management systems have been prepared for Vapo Timber Oy's Hankasalmi, Kevätniemi and Nurmes sawmills, and a project has been launched to prepare quality and environmental management systems for the timber procurement activity. Environmental parameters have been determined for all of Vapo's business activities.

The outlook

Vapo continues to systematically pursue its strategy of developing production and utilization of

- fuel peat and other biofuels
- sawmill products
- growing media and fertilizers
- air treatment and waste handling systems

The liberalization of the electricity market and amendments to the energy taxation system have had a negative impact on the utilization of fuel peat for electricity generation, but consumption of indigenous biofuels - peat and wood - nevertheless continues to increase.

In its biofuel production activities, Vapo's objective is still to raise the share of total energy produced with fuel peat from 6% in the year under review to 8% by

Vapo's Board of Directors (from top left): Kari Poikolainen (Secretary), Juha Tuominen, Raimo Rantala. Aarno Heinonen, (Chairman) and Mauri Jaakonaho.

the year 2003. This effort is also being supported by the approval of peat as a biofuel, which has been secured on the basis of long-term research and analysis.

Sales of indigenous fuels will continue to be stable over the next few years as utilization rates remain high. However, changes in the electricity markets will affect the energy business, and will thus also impact the trade in fuels.

Usage of wood fuels is increasing rapidly in Finland. Vapo's sales of wood fuels and other biofuels and refuse-derived fuels are increasing significantly.

The sawn goods markets will decline during the first part of the year. It is believed that the balance between supply and demand will improve towards the end of the year and bring about an upturn in price levels. The availability of saw logs has been good, and it is expected to remain good throughout 1998, but the high price of raw timber will depress the sawmills' financial performance. For the Vapo Timber group changes in external factors will mean lower turnover and a deterioration in profitability. In the markets for growing media and fertilizers no significant changes are expected during 1998. It is anticipated that the Finnish hobby gardening market will continue to grow slowly, while the professional market will probably remain at the same level as last year. Elsewhere in Europe the overall markets in this sector are expected to show slight growth. Kekkilä Oy's turnover is expected to develop in line with the markets.

The environmental business activity will continue to grow at a rapid rate, but the plants to be constructed in Finland will be completed in different years, and this will impact the way turnover is built up. The next few years will see a 5 - 10 year peak in construction of waste treatment plants, after which sales of plants will decrease significantly. The market for waste handling and environmental protection services, by contrast, is set to become a permanent and extensive activity, with the growth phase occurring during the same 5–10 year period.

ADMINISTRATION 31.12.1997

Supervisory Board

Chairman

Markku Koski, MP

Vice Chairman

Aarne Heikkilä, Executive Director

Members

Terttu Kangasharju, R&D Engineer Juha Karpio, MP Armas Komi, MP Christel Liljeström, Farmer Reijo Lindroos, MP Erkki Pulliainen, MP Taisto Turunen, Chief Director Jan Vapaavuori, Master of Laws

Staff representatives on Supervisory Board

(1.7.1996-30.6.1998)

Kauko Korhonen, peat industry workers Juhani Nevalainen, sawmill workers Kaisa Runtti, salaried office personnel Deputy staff representatives on Supervisory Board (1.7.1996–30.6.1998) Teuvo Penttinen, peat industry workers Erkki Flink, sawmill workers Marja Meriläinen, salaried office personnel

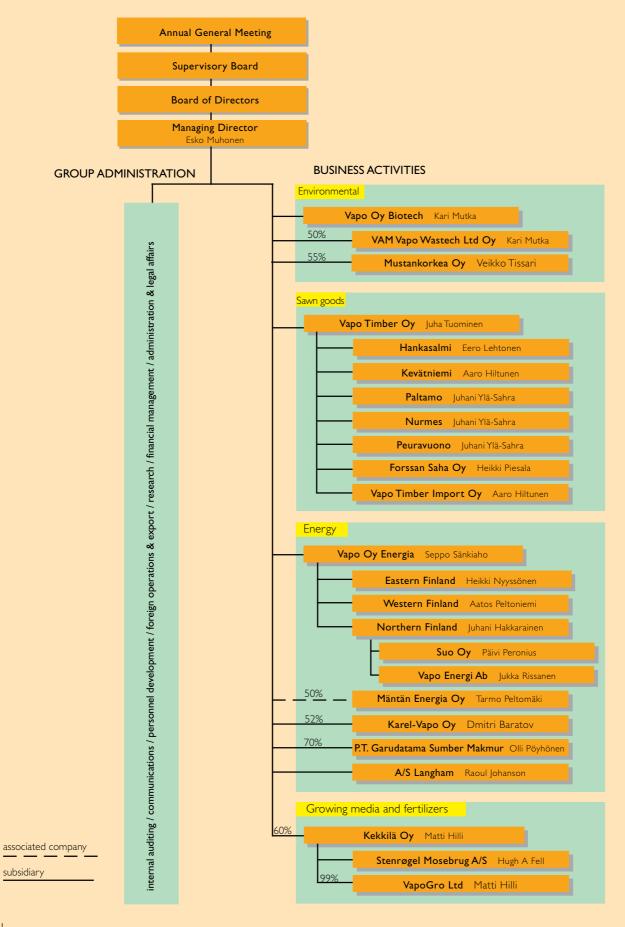
Board of Directors

Esko Muhonen, Chairman, Managing Director, Vapo Oy Juha Tuominen, Vice Chairman, Managing Director, Vapo Timber Oy Raimo Rantala, Controller, Vapo Oy Mauri Jaakonaho, Deputy Managing Director, Valmet Oy Arno Heinonen, Controller, Werner Söderström Oy

Auditors

Tuokko Deloitte & Touche Oy Certified Public Accountants Yrjö Tuokko, CPA

GROUP ORGANIZATION 1.1.1998



INCOME STATEMENT

	Notes	Group		Parent Compa	iny
		1.131.12.	1.131.12.	1.131.12.	1.131.12.
FIM 1000		1997	1996	1997	1996
		1997	1770	1777	1770
TURNOVER	I	1 861 276	I 645 433	883 270	886 388
ncrease in finished goods inventories		+111 303	+976	+59 063	+10 687
Production for own use		20 945	37 201	20 714	37 089
Share of associated company profit		1 182	784		
Other operating income		5 810	7 196	5 917	5 675
Expenses:					
Materials and succellars					
Materials and supplies:		(02.242	422 ((0	72.070	70 77
Purchases during the period		602 343	433 669	72 978	78 77
Increase/decrease in inventories		-38 127	+25 681	+559	+706
External charges	-	682 953	616 664	501 841	478 516
Salaries, wages and social expenses	2	217 458	202 675	97 448	99 25
Rents		5 868	7 292	6 402	6 12
Other expenses		179 501	138 017	81 803	51 27
Preparation of peat reserves		-15 552	-25 974	-15 551	-25 97
		I 634 444	1 398 024	745 480	688 66
OPERATING MARGIN		366 072	293 566	223 484	251 17
Depreciation Depreciation of fixed assets	3				
and other capitalized expenditure		-112 009	-107 272	-83 356	-84 13
Amortization of goodwill		-663	-663	00 000	0115
OPERATING PROFIT		253 400	185 631	140 128	167 043
Financial income and expenses:	5				
Dividend income		214	374	5 305	5 734
Interest income from long-term investments				3 194	3 618
Other interest income		8 093	10 501	6 858	8 54
Other financial income		978	212	2 933	I 87
Exchange rate differences		3 751	-556	7 080	I 26
Interest expenses		-21 190	-27 566	-19 183	-25 642
Other financial expenses		-443	-617	-291	-28
Total financial income and expenses		-8 597	-17 652	5 896	-4 89
PROFIT BEFORE EXTRAORDINARY ITEMS.					
APPROPRIATIONS TO RESERVES AND TAXES		244 803	167 979	146 024	162 148
	6				
Extraordinary income and expenses: Extraordinary expenses	0		-2 068		
PROFIT BEFORE APPROPRIATIONS					
TO RESERVES AND TAXES		244 803	165 911	146 024	162 148
Decrease/increase in depreciation difference	4			31 656	-25 83
Decrease in voluntary reserves					+14 980
Direct taxes					
For the accounting period		-81 183	-42 072	-55 972	-42 57
Change in deferred tax liability		5 328	-6 235	55 772	12 57.
		1/0.040		101 700	100 714
NET PROFIT BEFORE MINORITY INTEREST		168 948	117 604	121 708	108 718
Minority interest		-562	+931		
NET PROFIT		168 386	118 535	121 708	108 718

BALANCE SHEET

	Notes	Group		Parent Comp	anv
SSETS	INOLES	31.12.1997	31.12.1996	31.12.1997	31.12.1996
		51.12.1777	51.12.1770	51.12.1777	51.12.1770
IXED ASSETS AND OTHER					
ONG-TERM INVESTMENTS	7				
	,				
Intangible assets					
Intangible rights		7 125	6 883	5 788	6
Goodwill		1 728	2 390		
Other capitalized expenditure		8 958	9 946	4 309	4 84
Advances paid		149	207		20
		17 960	19 426	10 097	6
Tangible assets					
Land and water areas		94 889	91 507	78 975	75 59
Buildings and structures		143 255	144 615	59 707	59 17
Machinery and equipment		401 409	493 405	255 766	356 95
Preparation of peat reserves					
and other tangible assets		456 248	462 921	431 341	437 50
Advances paid and					
construction in progress		20 301	15 091	7 179	10 89
1 0		1 1 1 6 1 0 2	1 207 539	832 968	940 12
Shares and other long-term investments	8				
Investments in associated companies		3 168	2 737		
Shares and holdings		25 827	22 027	152 054	145 34
Loans receivable				48 083	56 24
Capital Ioan				3 589	3 4
		28 995	24 764	203 726	204 72
URRENT ASSETS					
Inventories					
Materials and supplies		97 281	58 828	4 606	516
Work in progress		10 457	314	465	13
Finished goods		471 560	383 496	383 399	324 66
Advances paid		13 280	7 403	586	37
		592 578	450 041	389 056	330 33
Receivables	9				
Accounts receivable		251 218	224 647	150 442	160 01
Loans receivable		501	I 026	18 035	14 21
Prepaid expenses and accrued income		26 229	34 191	11 062	15 28
Other receivables		13 504	8 808	272	41
		291 452	268 672	179 811	189 91
Investments					
Other investments		155 270	89 265	149 287	62 18
Cash on hand and bank balances		36 935	47 100	2 073	16 77
ALANCE SHEET TOTAL		2 239 292	2 106 807	1 767 018	I 755 23

BALANCE SHEET

	Notes	Group		Parent Comp	any
HAREHOLDERS' EQUITY AND LIABILITIES		31.12.1997	31.12.1996	31.12.1997	31.12.1996
HAREHOLDERS' EQUITY	10				
Restricted equity					
Share capital		300 000	300 000	300 000	300 000
Exchange rate difference		819	-23		
Ordinary reserve		82	299 977		
		300 901	299 977		
Transferred from voluntary reserves					
and depreciation difference		325 859	341 641		
Non-restricted equity					
Contingency reserve		179 030	179 030	178 945	178 94
Exchange rate difference		154	240		
Transferred from change in voluntary reserv	es				
and depreciation difference during accountin	ig period	13 663	-16 276		
Retained earnings		307 981	241 286	214 104	141 38
Profit for the period		168 386	118 535	121 708	108 71
		669 214	522 815	514 757	429 04
1INORITY INTEREST		32 120	32 977		
ESERVES					
AESERVES					
Accumulated depreciation difference				372 904	404 56
Voluntary reserves					
Transition reserve Other reserves					
Provisions		22 000		22 000	
		22 000		22 000	
ALUATION ITEMS	12	299			
IABILITIES					
Long-term	13				
Debenture loans		21 000	21 000	21 000	21 00
Loans from financial institutions		218 123	257 599	156 105	208 49
Pension fund Ioans		60 439	65 302	54 509	58 83
Other long-term liabilities		8 175	8 658	6	6 37
Deferred tax liability		127 874	134 569		
		435 611	487 128	237 725	294 71
Current	9				
Loans from financial institutions	·	73 735	98 456	66 050	93 55
Pension fund loans		4 851	4 975	4 325	4 42
Advances received		101 520	96 358	78 857	75 95
Accounts payable		139 158	109 428	39 584	41 56
Accrued liabilities		127 432	75 198	71 225	51 58
Other current liabilities		6 592	37 854	59 591	59 83
		453 288	422 269	319 632	326 91

	Group		Parent Compa	
IM 1000	1997	1996	1997	1990
OURCES OF FUNDS				
Finance from operations				
Operating margin	366 072	293 566	223 485	251 17
Interest and other financial income	13 037	11 087	25 369	21 03
Disposal of fixed assets	91 528	3 567	89 980	2 60
	470 637	308 220	338 834	274 80
Finance from other sources				
Increase in shareholders' equity	273			
Increase in minority interest		3 296		
Increase in provisions	22 000		22 000	
	23 273	3 296	22 000	
	493 910	311 516	360 834	274 80
		511 510		27100
PPLICATION OF FUNDS				
Profit distribution				
Interest on liabilities	21 634	28 739	19 474	25 92
Taxes	81 183	42 072	55 972	42 57
Dividends	36 000	36 000	36 000	36 00
	138 817	106 811	111 446	104 50
Investments				
Fixed assets	116 078	161 344	64 008	90 73
Other long-term investments	4 332	8	103	6 79
Change in valuation items	-299			
ů.	120 111	161 352	64	97 53
Repayment of capital				
Decrease in shareholders' equity		466		
Decrease in minority interest	22	100		
Decrease in long-term liabilities	69 686	58 219	84 358	56 82
	69 708	58 685	84 358	56 82
	220 (2)	224 040	250.015	250.05
	328 636	326 848	259 915	258 85
REAKDOWN OF CHANGE IN WORKING CAPITAL	-			
Increase (+)/decrease (-) in liquid assets	+78 620	-2 197	+62 293	+2 38
	+142 537	-28 673	+58 718	+9 81
Increase (+)/decrease (-) in inventories				
Increase (+)/decrease (-) in inventories Increase (-)/decrease (+) in current liabilities	-55 883	+15 538	-20 092	+3 75

STATEMENT OF SOURCE AND APPLICATION OF FUNDS

ACCOUNTING PRINCIPLES

Extent of consolidation

The consolidated financial statements include the Parent Company,Vapo Oy, and all active companies in which the Parent Company either owns more than 50% of the voting rights or otherwise exercises real control. The financial statements of Karel-Vapo Oy have not been consolidated as they are not material to the Group's financial statements. Mustankorkea Oy, which was established in 1997, has not been included in the consolidated financial statements as its actual operations begin in 1998. Associated Companies are those in which the Parent Company owns a 20–50% holding.

Principles of consolidation

The acquisition method of consolidation has been adopted. Inter-company transactions, receivables and liabilities, internal margins and distribution of profit within the Group have been eliminated. Minority interest has been disclosed separately from the Group's net profit and shareholders' equity in the consolidated accounts. Corporation tax credits received by subsidiary companies have been set off against the tax charge for the period in the consolidated accounts.

The results of associated companies are accounted for in the consolidated financial statements using the equity method.

In the consolidated financial statements the depreciation difference and voluntary reserves have been separated into shareholders' equity and deferred tax liabilities, and that part of the change in depreciation difference and voluntary reserves which has an effect on income is shown in the balance sheet only and explained in a note.

Foreign currency items and hedging arrangements

In translating the accounts of overseas subsidiaries into Finnish Marks, income statements have been translated at the average rate of exchange for the accounting period and balance sheets at the Bank of Finland's average rate of exchange at the balance sheet date. Exchange differences arising on the translation of these accounts are shown as restricted and non-restricted shareholders' equity.

Foreign currency denominated receivables and liabilities have been translated to Finnish Marks at the Bank of Finland's average rate at the balance sheet date, with a related credit or charge to income for the period. Exchange rate gains and losses arising on the translation of receivables and liabilities have been entered as exchange rate differences in the income statement.

Forward contracts and options used as hedges against exchange rate risks are stated at the appropriate rate on the balance sheet date. The interest component is apportioned over the term of the contract, and exchange rate differences arising on contracts to hedge liabilities or receivables are entered as exchange rate differences in the income statement.

Inventories

Inventories are valued at the lower of direct cost and net realizable value. Inventories include peat reserves that have been processed ready for sale. Unprocessed peat reserves are included in fixed assets and depreciated according to utilization.

Fixed assets and depreciation

Fixed assets are stated at original cost less depreciation. Planned depreciation is charged on a straightline basis against the original cost of the asset. In each case the straight-line depreciation rate is based on the useful life of the asset:

- intangible rights 5-10 years
- buildings and structures 20-40 years
- machinery and equipment 5-15 years
- peat reserves according to utilization
- other capitalized expenditure 4–10 years
- goodwill 5-10 years

NOTES TO THE ACCOUNTS

Note	000	Group		Parant Carre	21
numb		1997	1996	Parent Compa	1996
nume		1777	1770	1777	1770
I .	TURNOVER BY BUSINESS ACTIVITY				
	- fuel peat activities	834 103	835 831	837 029	841 385
	 horticultural peat activities sawmills 	148 901 815 499	139 534 626 944		
	- other business activities	62 773	43 124	46 241	45 003
		1 861 276	1 645 433	883 270	886 388
	TURNOVER BY MARKET AREA				
		1 2 47 (22	1 102 022	0// 100	070 500
	- Finland	1 247 622	1 182 923	866 428	870 528
	- Other Scandinavian countries	92 613 410 194	71 096 310 988	8 983 697	7 008
	- Other European countries - Other markets	110 847	80 426	7 162	8 076
		1 861 276	I 645 433	883 270	886 388
2	SALARIES, WAGES AND SOCIAL EXPENSES				
	Salaries and wages	166 851	154 536	74 385	75 141
	Pension expenses	26 662	25 932	12 755	12 992
	Social expenses	23 945 217 458	<u>22 207</u> 202 675	10 308 97 448	99 250
	Taxation value of fringe benefits	217 458	202 873	895	99 230
	Total	219 701	204 952	98 343	100 206
	Salaries, wages and social expenses relating to the Sup	pervisory Board	,		
	the Board of Directors and the Managing Director	6 964	6 30	2 599	2 350
	Average number of employees during				
	the financial period	9	1 046	513	502
3	PLANNED DEPRECIATION				
5					
	Intangible rights	2 812	2 930	2 2 1 8	2 537
	Goodwill	663	663		
	Other capitalized expenditure	I 955	I 853	829	607
	Buildings and structures	10 290	9 588	4 374	4 452
	Machinery and equipment	67 089	62 173	47 037	47 587
	Preparation of peat reserves	20.072	20 720	27 702	20.047
	and other tangible assets	29 863	30 728	27 792	28 947
	Shares Total	112 672	107 935	<u> 106</u> 83 356	84 130
	Iotai	112 072	107 735	03 330	01130
4	CHANGE IN DEPRECIATION DIFFERENCE				
4	CHANGE IN DEPRECIATION DIFFERENCE				
4	CHANGE IN DEPRECIATION DIFFERENCE Buildings and structures	-1 563	-1 612	-2 29	-1 854
4	Buildings and structures Machinery and equipment	-6 644	32 930	-22 246	20 349
4	Buildings and structures Machinery and equipment Preparation of peat reserves	-6 644 -6 735	32 930 7 340	-22 246 -7 281	20 349 7 340
4	Buildings and structures Machinery and equipment	-6 644	32 930	-22 246	20 349
	Buildings and structures Machinery and equipment Preparation of peat reserves Total	-6 644 -6 735 -14 942	32 930 7 340	-22 246 -7 281	20 349 7 340
4	Buildings and structures Machinery and equipment Preparation of peat reserves	-6 644 -6 735 -14 942	32 930 7 340	-22 246 -7 281	20 349 7 340
	Buildings and structures Machinery and equipment Preparation of peat reserves Total	-6 644 -6 735 -14 942	32 930 7 340	-22 246 -7 281	20 349 7 340
	Buildings and structures Machinery and equipment Preparation of peat reserves Total FINANCIAL INCOME RECEIVED FROM GROUP CO	-6 644 -6 735 -14 942	32 930 7 340	-22 246 -7 281 -31 656	20 349 7 340 25 835
	Buildings and structures Machinery and equipment Preparation of peat reserves Total FINANCIAL INCOME RECEIVED FROM GROUP CO Dividend income	-6 644 -6 735 -14 942	32 930 7 340	-22 246 -7 281 -31 656 4 378	20 349 7 340 25 835 5 133
	Buildings and structures Machinery and equipment Preparation of peat reserves Total FINANCIAL INCOME RECEIVED FROM GROUP CO Dividend income Interest income from long-term investments Interest income from short-term investments	-6 644 -6 735 -14 942 OMPANIES	32 930 7 340	-22 246 -7 281 -31 656 4 378 3 194	20 349 7 340 25 835 5 133
	Buildings and structures Machinery and equipment Preparation of peat reserves Total FINANCIAL INCOME RECEIVED FROM GROUP CO Dividend income Interest income from long-term investments	-6 644 -6 735 -14 942 OMPANIES	32 930 7 340	-22 246 -7 281 -31 656 4 378 3 194	20 349 7 340 25 835 5 133
	Buildings and structures Machinery and equipment Preparation of peat reserves Total FINANCIAL INCOME RECEIVED FROM GROUP CO Dividend income Interest income from long-term investments Interest income from short-term investments	-6 644 -6 735 -14 942 OMPANIES	32 930 7 340	-22 246 -7 281 -31 656 4 378 3 194	20 349 7 340 25 835 5 133

FIM 10	00				
Note		Group		Parent Compan	У
numbe	r	1997	1996	1997	1996
6	EXTRAORDINARY EXPENSES				
			2 068		
	Reduction in value of decommissioned production plan	t.			
-					
7	FIXED ASSETS AND OTHER				
	CAPITALIZED EXPENDITURE				
	Intensible rights				
	Intangible rights				
	Initial cost I Jan	20 007	38 027	17 442	35 486
	- additions Jan - 31 Dec	3 055	2 474	1 888	2 450
	- disposals Jan - 3 Dec	-1 107	-20 494	-593	-20 494
	Initial cost 31 Dec	21 955	20 007	18 737	17 442
	- accumulated planned depreciation 31 Dec	-14 830	-13 124	-12 949	-11 324
	Book value 31 Dec	7 25	6 883	5 788	6 8
	Goodwill				
	Initial cost I Jan	6 648	6 648		
	- additions Jan - 3 Dec				
	Initial cost 31 Dec	6 648	6 648		
	- accumulated depreciation 31 Dec	-4 920	-4 258		
	Book value 31 Dec	I 728	2 390		
	Other capitalized expenditure				
		20.071	E E 41	21.571	1 220
	Initial cost Jan - additions Jan - 3 Dec	29 971 962	5 541 24 575	21 561 296	320 20 24
	- disposals Jan - 3 Dec	762	-145	270	20 241
	Initial cost 31 Dec	30 933	29 971	21 857	21 561
	- accumulated depreciation 31 Dec	-21 975	-20 025	-17 548	-16 719
	Book value 31 Dec	8 958	9 946	4 309	4 842
	Land and water areas				
	Initial cost I Jan	91 507	84 835	75 596	71 658
	- additions Jan - 3 Dec	3 610	7 075	3 493	4 075
	- disposals 1 Jan - 31 Dec	-228	-403	-114	-137
	Book value 31 Dec	94 889	91 507	78 975	75 596
	Buildings and structures				
	Initial cost I Jan	209 932	200 451	101 377	101 793
	- additions Jan - 3 Dec	11 277	13 627	6 2	335
	- exchange rate differences Jan - 3 Dec	2			
	- disposals Jan - 31 Dec	-3 958	-4 46	-3 743	-751
	Initial cost 31 Dec	217 253	209 932	103 755	101 377
	- accumulated depreciation 31 Dec	-73 998	-65 317	-44 048	-42 207
	Book value 31 Dec	143 255	144 615	59 707	59 170
	Assumulated difference between total and				
	Accumulated difference between total and	34 665	36 277	28 849	30 704
	planned depreciation Jan	888	402	20 047	30704
	- increase in depreciation difference Jan - 3 Dec - decrease in depreciation difference Jan - 3 Dec	-2 451	-2 014	-2 29	-1 855
	- adjustment to depreciation difference, balance sheet	-2 451	-2 014	-2 127	-1 035
	Accumulated difference between total and	-1102			
	planned depreciation 31 Dec	32 000	34 665	26 720	28 849

FIM I	000				
Note		Group		Parent Compa	ny
numbe	er	1997	1996	1997	1996
	Machinery and equipment				
	Initial cost I Jan	839 182	768 881	641 948	614 883
	- additions Jan - 31 Dec	67 625	86 092	34 501	40 564
	- exchange rate differences Jan - 3 Dec	166			
	- disposals 1 Jan - 31 Dec	-159 074	-15 791	-154 851	-13 499
	Initial cost 31 Dec	747 899	839 182	521 598	641 948
	 accumulated depreciation 31 Dec 	-346 490	-345 777	-265 832	-284 990
	Book value 31 Dec	401 409	493 405	255 766	356 958
	Accumulated difference between				
	total and planned depreciation I Jan	265 967	232 048	202 758	182 409
	- increase in depreciation difference Jan - 3 Dec	15 730	34 049		20 349
	- decrease in depreciation difference Jan - 3 Dec	-22 374	-130	-22 246	
	- adjustment to depreciation difference, balance sheet	-3 780			
	Accumulated difference between				
	total and planned depreciation 31 Dec	255 543	265 967	180 512	202 758
	Machinery and equipment,				
	share of book value 31 Dec	281 129	254 543	144 856	145 233

Adjustments have been made to the depreciation difference shown in the balance sheet in respect of buildings and structures and machinery and equipment. These adjustments relate to differences revealed when a subsidiary company adopted a new fixed asset management system. The adjustments have no effect on the profit for the financial period.

Preparation of peat reserves and other tangible assets

Initial cost I Jan	662 218	615 746	631 076	591 527
- additions Jan - 31 Dec	22 674	46 858	21 629	39 935
- exchange rate differences Jan - 3 Dec	337			
- disposals 1 Jan - 31 Dec		-386		-386
Initial cost 31 Dec	685 229	662 218	652 705	631 076
- accumulated depreciation 31 Dec	-228 981	-199 297	-221 364	-193 572
Book value 31 Dec	456 248	462 921	431 341	437 504
Accumulated difference between				
total and planned depreciation I Jan	172 953	165 613	172 953	165 613
- increase in depreciation difference Jan - 3 Dec	546	7 340		7 340
- decrease in depreciation difference Jan - 3 Dec	-7 281		-7 281	
Accumulated difference between				
total and planned depreciation 31 Dec	166 218	172 953	165 672	172 953
Shares and holdings				
Initial cost I Jan	24 764	24 756	145 345	141 223
- additions I Jan - 31 Dec	4 332	921	7 917	4 263
- disposals I Jan - 31 Dec	-101	-913	-102	-141
Initial cost 31 Dec	28 995	24 764	153 160	145 345
- accumulated depreciation			-1 106	
Book value 31 Dec	28 995	24 764	152 054	145 345
TAXATION VALUES				
Land and water areas	58 711	56 895	52 147	50 178
Buildings and structures	153 589	157 310	73 391	74 772
Shares and holdings	166 464	131 708	163 960	113 667
	378 764	345 913	289 498	238 617

Book value has been used in cases where taxation value is not available.

FIM 1	000				
Note		Group		Parent Compar	
numbe	er	1997	1996	1997	1996
8	LONG-TERM INVESTMENTS IN GROUP COMPAN	IIES			
	Group companies				
	Shares and holdings			131 915	125 689
	Loans receivable			48 083	56 244
	Capital Ioan			3 589	3 1 4 0
	Total			183 587	185 073
	A 14 1 1				
	Associated companies				
	Shares and holdings	3 168	2 737	<u> </u>	1 000
7	GROUP RECEIVABLES AND LIABILITIES				
	Accounts receivable/group companies			6 677	14 091
	Accounts receivable/associated companies			4 892	1 004
	Loans receivable/group companies			17 534	13 184
	Prepaid expenses and accrued income/group compani	ies		993	I 605
	Prepaid expenses and accrued income/associated com			2 399	I 750
	Accounts payable/group companies			3 484	1 045
	Accrued liabilities/group companies			1 202	181
	Other current liabilities/group companies			58 736	22 55 1
	PENSION COMMITMENTS FOR BOARD OF DIREC		NAGING DIRE	CTOR	
	PENSION COMMITMENTS FOR BOARD OF DIREC Those members of the Board of Directors who are Va				of 60-62 yea
	PENSION COMMITMENTS FOR BOARD OF DIREC Those members of the Board of Directors who are Va				o <mark>f 60-62 yea</mark>
10					of 60-62 yea
10	Those members of the Board of Directors who are Va SHAREHOLDERS' EQUITY				of 60-62 yea
0	Those members of the Board of Directors who are Va				of 60-62 yea
10	Those members of the Board of Directors who are Van SHAREHOLDERS' EQUITY Restricted equity				of 60-62 yea
0	Those members of the Board of Directors who are Van SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference I Jan	po employees ha	we the option of		of 60-62 yea
0	Those members of the Board of Directors who are Van SHAREHOLDERS' EQUITY Restricted equity	po employees ha -23			of 60-62 yea
10	Those members of the Board of Directors who are Van SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference I Jan Change in exchange rate difference Exchange rate difference 31 Dec	-23 842 819	we the option of		of 60-62 yea
10	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference I Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve I Jan	-23 842 819 0	we the option of		of 60-62 yea
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference I Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve I Jan Transfer from profits	-23 -23 842 819 0 82	we the option of		of 60-62 yea
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference I Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve I Jan	-23 842 819 0	we the option of		of 60-62 yea
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference I Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve I Jan Transfer from profits	-23 842 819 0 82 82 82	-23 -23		of 60-62 yea
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference I Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve I Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reserve	-23 842 819 0 82 82 rves and depreci	-23 -23 -23		of 60-62 yea
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference I Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve I Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reserve Transfers to shareholders' equity as at I Jan	-23 842 819 0 82 82 rves and depreci 341 641	-23 -23		of 60-62 yea
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference I Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve I Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reserve Transfers to shareholders' equity as at I Jan Change resulting from adjustment to depreciation diff	-23 842 819 0 82 82 rves and deprect 341 641 reence	-23 -23 -23		of 60-62 yea
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference I Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve I Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reserve Transfers to shareholders' equity as at I Jan Change resulting from adjustment to depreciation diff as shown in balance sheet	-23 842 819 0 82 82 rves and depreci 341 641	-23 -23 -23		of 60-62 yea
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference I Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve I Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reserve Transfers to shareholders' equity as at I Jan Change resulting from adjustment to depreciation diff as shown in balance sheet Transfers from change in voluntary reserves	-23 842 819 0 82 82 rves and depreci 341 641 reence -2 119	re the option of		of 60-62 yea
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference I Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve I Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reserve Transfers to shareholders' equity as at I Jan Change resulting from adjustment to depreciation diff as shown in balance sheet Transfers from change in voluntary reserves and depreciation difference during accounting period	-23 842 819 0 82 82 rves and deprect 341 641 reence -2 119 -13 663	-23 -23 -23 iation difference 325 365		of 60-62 yea
10	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference I Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve I Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reserve Transfers to shareholders' equity as at I Jan Change resulting from adjustment to depreciation diff as shown in balance sheet Transfers from change in voluntary reserves	-23 842 819 0 82 82 rves and depreci 341 641 reence -2 119	re the option of		of 60-62 yea
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference I Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve I Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reserve Transfers to shareholders' equity as at I Jan Change resulting from adjustment to depreciation diff as shown in balance sheet Transfers from change in voluntary reserves and depreciation difference during accounting period	-23 842 819 0 82 82 rves and deprect 341 641 reence -2 119 -13 663	-23 -23 -23 iation difference 325 365		of 60-62 yea
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reserve Transfers to shareholders' equity as at Jan Change resulting from adjustment to depreciation diff as shown in balance sheet Transfers from change in voluntary reserves and depreciation difference during accounting period Transfers to shareholders' equity as at 31 Dec	-23 842 819 0 82 82 rves and depreci 341 641 rerence -2 119 -13 663 325 859	-23 -23 -23 iation difference 325 365 <u>16 276 341 641</u>	retiring at the age o	
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference 1 Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve 1 Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reserve Transfers to shareholders' equity as at 1 Jan Change resulting from adjustment to depreciation diff as shown in balance sheet Transfers from change in voluntary reserves and depreciation difference during accounting period Transfers to shareholders' equity as at 31 Dec	-23 842 819 0 82 82 rves and depreci 341 641 rerence -2 119 -13 663 325 859 522 815	-23 -23 -23 -23 iation difference 325 365 16 276 341 641 456 999	retiring at the age of	356 331
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference 1 Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve 1 Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reserve Transfers to shareholders' equity as at 1 Jan Change resulting from adjustment to depreciation diff as shown in balance sheet Transfers from change in voluntary reserves and depreciation difference during accounting period Transfers to shareholders' equity as at 31 Dec Non-restricted equity Non-restricted equity 1 Jan Distribution of dividends	-23 842 819 0 82 82 rves and depreci 341 641 rerence -2 119 -13 663 325 859 522 815 -36 000	-23 -23 -23 iation difference 325 365 <u>16 276 341 641</u>	retiring at the age o	356 331
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference 1 Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve 1 Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reserve Transfers to shareholders' equity as at 1 Jan Change resulting from adjustment to depreciation diff as shown in balance sheet Transfers from change in voluntary reserves and depreciation difference during accounting period Transfers to shareholders' equity as at 31 Dec Non-restricted equity Non-restricted equity 1 Jan Distribution of dividends Transfer from profits to ordinary reserve	-23 842 819 0 82 82 rves and depreci 341 641 rerence -2 119 -13 663 325 859 522 815	-23 -23 -23 -23 iation difference 325 365 16 276 341 641 456 999	retiring at the age of	356 331
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference 1 Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve 1 Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reser Transfers to shareholders' equity as at 1 Jan Change resulting from adjustment to depreciation diff as shown in balance sheet Transfers from change in voluntary reserves and depreciation difference during accounting period Transfers to shareholders' equity as at 31 Dec Non-restricted equity Non-restricted equity 1 Jan Distribution of dividends Transfers to shareholders' equity from change in	-23 842 819 0 82 82 rves and depreci 341 641 rerence -2 119 -13 663 325 859 522 815 -36 000	-23 -23 -23 -23 iation difference 325 365 16 276 341 641 456 999	retiring at the age of	356 331
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference 1 Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve 1 Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reser Transfers to shareholders' equity as at 1 Jan Change resulting from adjustment to depreciation diff as shown in balance sheet Transfers from change in voluntary reserves and depreciation difference during accounting period Transfers to shareholders' equity as at 31 Dec Non-restricted equity Non-restricted equity 1 Jan Distribution of dividends Transfers to shareholders' equity from change in voluntary reserves and depreciation difference	-23 842 819 0 82 82 rves and depreci 341 641 rerence -2 119 -13 663 325 859 522 815 -36 000 -82	-23 -23 -23 -23 iation difference 325 365 16 276 341 641 456 999 -36 000	retiring at the age of	356 331
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reser Transfers to shareholders' equity as at Jan Change resulting from adjustment to depreciation diff as shown in balance sheet Transfers from change in voluntary reserves and depreciation difference during accounting period Transfers to shareholders' equity as at 31 Dec Non-restricted equity Jan Distribution of dividends Transfers to shareholders' equity from change in voluntary reserves and depreciation difference during accounting period	-23 842 819 0 82 82 rves and depreci 341 641 rerence -2 119 -13 663 325 859 522 815 -36 000	-23 -23 -23 -23 iation difference 325 365 16 276 341 641 456 999	retiring at the age of	356 331
0	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reser Transfers to shareholders' equity as at Jan Change resulting from adjustment to depreciation diff as shown in balance sheet Transfers from change in voluntary reserves and depreciation difference during accounting period Transfers to shareholders' equity as at 31 Dec Non-restricted equity Jan Distribution of dividends Transfer from profits to ordinary reserve Transfers to shareholders' equity from change in voluntary reserves and depreciation difference during accounting period Changes resulting from Group	-23 842 819 0 82 82 rves and depreci 341 641 ference -2 119 -13 663 325 859 522 815 -36 000 -82 13 663	-23 -23 -23 -23 iation difference 325 365 16 276 341 641 456 999 -36 000	retiring at the age of	356 331
	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reser Transfers to shareholders' equity as at Jan Change resulting from adjustment to depreciation diff as shown in balance sheet Transfers from change in voluntary reserves and depreciation difference during accounting period Transfers to shareholders' equity as at 31 Dec Non-restricted equity Non-restricted equity Jan Distribution of dividends Transfers to shareholders' equity from change in voluntary reserves and depreciation difference during accounting period Changes resulting from Group restructuring	-23 842 819 0 82 82 rves and depreci 341 641 rerence -2 119 -13 663 325 859 522 815 -36 000 -82	-23 -23 -23 -23 iation difference 325 365 16 276 341 641 456 999 -36 000	retiring at the age of	of 60-62 yea 356 331 -36 000
	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reser Transfers to shareholders' equity as at Jan Change resulting from adjustment to depreciation diff as shown in balance sheet Transfers from change in voluntary reserves and depreciation difference during accounting period Transfers to shareholders' equity as at 31 Dec Non-restricted equity Non-restricted equity Jan Distribution of dividends Transfers to shareholders' equity from change in voluntary reserves and depreciation difference during accounting period Changes resulting from Group restructuring Change in exchange rate difference relating to	-23 842 819 0 82 82 rves and depreci 341 641 ference -2 119 -13 663 325 859 522 815 -36 000 -82 13 663	-23 -23 -23 -23 iation difference 325 365 16 276 341 641 456 999 -36 000	retiring at the age of	356 331
	Those members of the Board of Directors who are Val SHAREHOLDERS' EQUITY Restricted equity Exchange rate difference Jan Change in exchange rate difference Exchange rate difference 31 Dec Ordinary reserve Jan Transfer from profits Ordinary reserve 31 Dec Transfers to shareholders' equity from voluntary reser Transfers to shareholders' equity as at Jan Change resulting from adjustment to depreciation diff as shown in balance sheet Transfers from change in voluntary reserves and depreciation difference during accounting period Transfers to shareholders' equity as at 31 Dec Non-restricted equity Non-restricted equity Jan Distribution of dividends Transfers to shareholders' equity from change in voluntary reserves and depreciation difference during accounting period Changes resulting from Group restructuring	-23 842 819 0 82 82 rves and depreci 341 641 erence -2 119 -13 663 325 859 522 815 -36 000 -82 13 663 828	-23 -23 -23 -23 iation difference 325 365 16 276 341 641 456 999 -36 000 -16 276	retiring at the age of	356 331

FIM	1000						
Note		Group		Parent Compar	ıy		
numb	ber	1997	1996	1997	1996		
П	VOLUNTARY RESERVES AND DEPRECIATION DIFFERENCE IN THE CONSOLIDATED ACCOUNTS						
		2 0 2 2	7.010				
	Voluntary reserves	2 933	7 019				
	Depreciation difference	453 760	473 584				
		456 693	480 603				
	Entered as followed:						
	Deferred tax liability	127 874	134 569				
	Minority interest	2 960	4 393				
	Transferred to shareholders' equity	325 859	341 641				
		456 693	480 603				
	Provisions						
	Frovisions						
	Provision for expenditure on environmental work						
	at sites released from peat production	22 000		22 000			
12	VALUATION ITEMS						
	Valuation items I Jan	0					
	Unrealized exchange rate gain on loan	U					
	granted to subsidiary in sub-group	299					
	Valuation items 31 Dec	299					
	Valuation items 51 Dec						
13	LONG-TERM LIABILITIES DUE AFTER FIVE YEAR	RS OR MORE					
	Loans from financial institutions	38 337	18 828	26 400	233		
	Pension fund loans	44 942	48 808	40 775	44 011		
	Other long-term liabilities	6 606	8 495	2 107	2 295		
	Other long-term habilities	89 885	76 131	69 282	47 539		
			/0131				
	DEBENTURE LOANS						
	D	21.000	21.000	21.000	21.000		
	Debenture Ioan 1994/1999	21 000	21 000	21 000	21 000		
	- repayable in a single instalment						
	CHARGES ON ASSETS, MORTGAGES PLEDGED,						
	GUARANTEES, AND OTHER CONTINGENT LIABILITIES						
	Characteristic						
	Charges on assets	1070	1070	1070	1070		
	- for corporate debts	1878	1878	1878	1878		
	- in respect of delivery contracts	1006	878	878	878		
		2 00 1	10/0		10/0		
	Mortgages pledged						
	- for corporate debts	122 016	94 989	5 000	5 000		
	- in respect of contracts	1 000	77 707	5 000	5 000		
		123 016	94 989	5 000	5 000		
	Guarantees						
	- for Group company debts			39 741	26 23 1		

FIM 1000					
Note	Group	Group		Parent Company	
number	1997	1996	1997	1996	
Other contingent liabilities					
- for Group companies,					
relating to guarantee periods	2 281	2 281	2 281	2 281	
- for Group companies,					
relating to delivery contracts	55 757	63 003	37 428	46 003	
- leasing liabilities	185				
- other liabilities	I 854	1516	99		
- open forward contracts	59 446	80 384		67 203	
	119 523	147 184	39 808	115 487	
Charges on assets, mortgages pledged,					
guarantees and other contingent liabilities,					
total	245 423	244 051	86 427	148 596	

PARENT COMPANY SHARES AND HOLDINGS

Group companies	arent Company shareholding %	Group share of shareholders'	Number of shares	Parent Co Nominal value	mpany shareholding Book value	Profit/loss per most recent				
	shareholding /o	equity	or shares	1 torriniar value	BOOK Value	financial statement				
		FIM 1000		FIM/share	FIM 1000	FIM 1000				
Vapo Timber Oy group, Jyväskylä	100	236 811	5000	25 000	71 000	69 85 1				
Biolappi Oy, Rovaniemi	100	17	96	960	100	-302				
Suo Oy, Jyväskylä	100	713	150 000	150	9	105				
Biofilter Oy, Helsinki	100	879	60	600	760	I				
Vapo (U.K.) Ltd, London	99		99		I					
Kekkilä Oy group, Eurajoki	60	42 381	1 514 383	15 144	47 087	5 419				
A/S Langham, Haapsalu	100	235	10	1	783	-355				
Vapo Energi Ab, Haparanda	100	1 832	10 000	600	600	506				
P.T. Garudatama Sumber Makmur, Jak		252	5 000	680	5 534	-3 956				
VAM Vapo Wastech Ltd Oy, Jyväskylä		2 59	6	600	3 000	I 755				
Mustankorkea Oy, Jyväskylä	55		275	2 750	2 750					
Karel-Vapo Oy, Petroskoi	52		171		291					
Total					131 915					
Associated as use suites										
Associated companies										
Mäntän Enorgia Ov Mänttä	50	3 68	2000	1 000	1 000	2 363				
Mäntän Energia Oy, Mänttä	50	3 100	2000	1 000	1 000	2 303				
Other Parent Company owned										
shares and holdings					19 139					
					17 107					
	17100									
CALCULATION OF FINANCIAL R	ATIOS									
Return on capital invested (ROI) %	= 100 x	Profit before	extraordinary i	items + interes	t and other fin	ancial expenses				
Return on capital invested (ROI) %	- 100 X	Average capital invested								
Return on equity (ROE) %	= 100 x		extraordinary i							
	Return on equity (ROE) % - 100 x				Average of (Shareholders' equity + reserves + minority interest)					
Solvency ratio %	Shareholders' equity + reserves + minority interest Balance sheet total - advances received									
,										
Earnings / share	=		extraordinary i	tems - taxes - i	minority intere	st				
		Average num	ber of shares							
		Sharahaldara	oquity							
Shareholders' equity / share	=	Shareholders'		pariod						
		Number of St	nares at end of	period						
		Dividend for	period							
Dividend / share (FIM)	=		nares at end of	period						
				Ferros						
	- 100	Dividend / sh	are							
Dividend / earnings (%)	= 100 x	Earnings / sha								
		0								

PROPOSAL FOR THE DISTRIBUTION OF PROFITS

According to the Consolidated Balance Sheet, the Group's non-restricted shareholders' equity and distributable funds total FIM 669 million. The Parent Company's non-restricted shareholders' equity is FIM 515 million, of which profit for the financial period is FIM 122 million.

The Board of Directors proposes that the profit for the period as shown in the financial statements be utilized as follows:

- a dividend of FIM 57 million or 19% of the registered share capital be paid;
- the sum of FIM 300.000 be allocated for charitable purposes at the discretion of the Board of Directors;
- a total of FIM 64 million be transferred to the retained earnings account.

Jyväskylä, 12 March 1998

Esko Muhonen Chairman, Managing Director Juha Tuominen Aarno Heinonen Mauri Jaakonaho Raimo Rantala

AUDITORS' REPORT

To the shareholders of Vapo Oy

We have audited the accounting, the financial statements and the corporate governance of Vapo Oy for the period I January to 31 December 1997. The financial statements, which include the report of the Board of Directors, Parent Company and consolidated income statements, balance sheets and notes to the financial statements, have been prepared by the Board of Directors and the Managing Director: Based on our audit we express an opinion on these financial statements and on corporate governance.

We have conducted the audit in accordance with the Finnish Standards on Auditing. Those standards require that we perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining on a test basis evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by the management as well as evaluating the overall financial statement presentation. The purpose of our audit of corporate governance is to examine that the members of the Supervisory Board, the Board of Directors and the Managing Director have legally complied with the rules of the Companies Act.

In our opinion

- the financial statements have been prepared in accordance with the Accounting Act and other rules and regulations governing the preparation of financial statements,
- the financial statements give a true and fair view, as defined in the Accounting Act, of both the Parent Company's and the Group's result of operations as well as of the financial position,
- the financial statements, with the consolidated financial statements, can be adopted,
- the members of the Supervisory Board, the Board of Directors and the Managing Director of the Parent Company can be discharged from liability for the period audited by us, and
- the proposal by the Board of Directors regarding the distribution of the profit for the accounting period is in compliance with the Companies Act.

Jyväskylä, 12 March 1998

TUOKKO DELOITTE & TOUCHE OY Certified Public Accountants Yrjö Tuokko, CPA

STATEMENT OF THE SUPERVISORY BOARD

The Supervisory Board has examined Vapo Oy's Financial Statements, Consolidated Financial Statements and Auditors' Report for 1997, and has found that these require no comment on the part of the Supervisory Board.

The Supervisory Board recommends the adoption of the Parent Company Income Statement and Balance Sheet and of the Consolidated Income Statement and Balance Sheet and supports the proposal of the Board of Directors as regards the distribution of profits.

The Company's present articles of association stipulate that all the members of the Supervisory Board are elected each year at the Annual General Meeting.

Helsinki, 25 March 1998

Markku Koski

Aarne Heikkilä Terttu Kangasharju Juha Karpio Armas Komi Christel Liljeström Reijo Lindroos Erkki Pulliainen Taisto Turunen Jan Vapaavuori

VAPO

43

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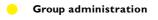
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- Regional centre unit office
- 🗙 🛛 Helsinki office
- Peat production site
- Sawmill
- 🔶 Kekkilä Oy
- Horticultural peat plant

PEURAVUONO

Artic Circle

