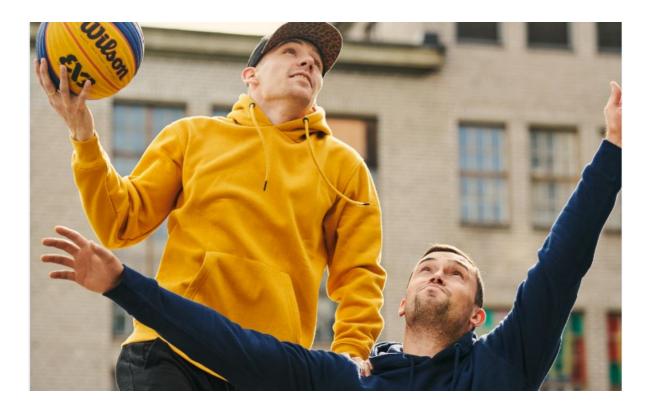
Helen Ltd

Financial statements and report on operations for the financial year 1.1.2019 - 31.12.2019





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Report on operations 2019

Group

The Helen Group consists of the parent company Helen Ltd and its subsidiaries Helen Electricity Network Ltd, Oy Mankala Ab, and Helsingin Energiatunnelit Oy. The associated companies of Helen Ltd are Liikennevirta Oy, Voimapiha Oy and Suomen Merituuli Oy, the subsidiary Suomen Energiaurakointi Oy was sold on 30 April 2019, after which it is not reported in the Group figures.

Helen Ltd offers its customers electricity, district heating and district cooling, along with a wide range of services for small-scale energy production and the customers' own energy use and improving its efficiency. Helen Ltd produces energy at its power stations and other production plants located in Helsinki, as well as through its power assets. Helen Ltd is owned by the City of Helsinki

Helen Electricity Network Ltd (100%) concentrates on electricity network operations in compliance with the Electricity Market Act and provides transmission and distribution services to its customers in almost the entire City of Helsinki. The net sales of Helen Electricity Network Ltd account for approx. 14% of the Helen Group's net sales.

Oy Mankala Ab (100%) is a hydropower company that owns the Mankala, Ahvenkoski, Klåsarö and Ediskoski hydropower plants by the Kymijoki River. Oy Mankala Ab's holding in Teollisuuden Voima Oy is 8.1%, in Suomen Hyötytuuli Oy 12.5% and in Suomen Merituuli Oy 50%.

Helsingin Energiatunnelit Oy (90%) serves the energy, water supply and telecommunication networks. The City of Helsinki's holding in Helsingin Energiatunnelit Oy is 10%.

Strategy and values

According to is updated strategy, Helen Ltd will respond to the shift in the energy sector by making substantial investments in the solutions business and by building partnerships. We are seeking growth by developing new services and by investing in growth companies.

In the innovative Helen, the customer plays the most important role. Smarter and cleaner solutions are being developed in an open-minded way to answer the energy challenges of today and tomorrow.

Heat, cooling and electricity continue to be the basis for Helen's operations. At Helen, we have a solid experience of energy systems and energy production, and our future solutions will be based on this expertise. We are making substantial investments in regional renewable energy, smart buildings and electric-vehicle use.

Helen's vision

Helen is the most customer-focused energy company in the market. We make the possibilities of the new energy era available to everyone

Strategic goals:

Bolder and more agile

Our approach will be more customer-centric, and we will focus on developing the know-how and capabilities we value most. We will increase cooperation and work towards more streamlined decision-making.

Higher profits

Our stable and constantly improving product and service business in electricity, heating and cooling enables investments in the solutions business

Our aim is to strengthen the solutions business

Our objective is that the solution areas, such as regional, renewable energy, smart building solutions and electric-vehicle use will form an increasingly significant part of Helen's business operations.

Towards a carbon-neutral future

We aim for a carbon-neutral energy system. We will create a cleaner, smarter and more flexible energy system and will blaze the trail in sustainable energy systems.

Partner network for growth

We will increasingly cooperate with our customers, strengthen our partner network and invest in growth companies.

The common values of our entire personnel are helping the Helen's employees towards the goals set by the new strategy. Hundreds of Helen's employees were involved in the forming of the values. Our mission is to make the opportunities of the new energy era available to everyone, and this will be carried out in cooperation with others. To succeed, we will need each other's know-how, expertise, experience, views and passion.

Helen's values are the following:

Masters in cooperation Person to person World-class expertise Make it happen

Financial year 2019

Helen's financial results remained excellent in the business year 2019. Our successful measures in the electricity market, along with the fuel price trend, improved our profitability.

Strategic measures have been targeted at regional renewable energy, smart buildings and electric-vehicle use. Helen's business operations have remained at a good level, and Helen has also continued its internal renewal and implemented its strategy in its daily work.

Helen has succeeded in increasing its customer numbers further. The number of households' customer contracts exceeded the limit of 500,000, and about one third of Finns are encompassed by Helen's energy services.

The first and last months of the year were warmer than normal, due to which the volume of district heat production was lower than estimated. Competition in the electricity retail market has remained highly competitive. In the electricity wholesale market, Helen's versatile production, particularly the volume of natural gas production, was increased in a flexible manner by making use of increases in the price level. The sales of our new services (solar power plants, electric-vehicle use, electricity storage facilities) have developed positively.

The availability of power lands was excellent and the optimation of energy production succeeded well. The production of hydropower plants continued to decline as a result of a poor water supply situation.

Group's profit trend

The Group's reported net sales fell from the previous year. The development of net sales was impacted by the cost-based price changes of district heat, the electricity price reached in the electricity market and the sales volume of retail electricity. The drop in the comparable net sales was due to the sale of Suomen Energia-Urakointi Oy in the middle of the financial year.

Helen Group's results grew significantly on the previous year due to an increase in the parent company's operating profit. Helen Ltd was able to utilise the electricity market situation and fluctuations in the market by a number of successful measures taken in the electricity wholesale market. The fuel price trend and the profitable growth in the retail electricity business also improved the operating profit. The net sales and profitability of Helen Electricity Network Ltd showed a positive trend as well.

The net sales for 2019 totalled EUR 914 million (EUR 930 in 2018) and the operating profit stood at EUR.177 million (EUR 131 million). At 6,752 GWh, the electricity sales volume grew by 3% on the previous year. The district heat sales totalled 6,523 GWh, down by 3% on the year before. The district cooling sales stood at 171 GWh, a fall of 9%. Electricity distribution in Helsinki remained at the previous year's level, standing at 4,383 GWh.

Group and parent company: Key figures 2019

	Group		Parent company	
	2019	2018	2019	2018
Net sales, EUR million	914	930	792	792
Operating profit, EUR million	176	131	130	88
Operating profit, %	19	14	16	11
Profit before appropriations, EUR million	160	112	150	106
Investments, EUR million	69	65	43	35
Equity ratio, %	77	73	78	77
Return on investments, %	7	5	7	5
Employees as of 31 December.	957	1,080	863	838
Balance sheet total, EUR million	2,710	2,758	2,681	2,616

Equity ratio % = 100 * own funds / balance sheet total

Own funds = shareholders' equity + untaxed reserves + depreciation difference deducted by tax

Return on capital invested % = 100 * (profit before appropriations + financing costs + tax) / average capital invested Capital invested = balance sheet total + non-interest-bearing debt

Investments

Helen is making investments to increase the use of renewable energy in district heat production, recycling of energy with heat pumps and improving the security of supply in energy networks in particular.

Helen Group's investments totalled EUR 69 million. The investments in the parent company's production structure amounted to EUR 43 million. Of this amount, the investments in the district heating and district cooling networks totalled EUR 16 million. Investments in the electricity network stood at EUR 22 million.

Helen invested EUR 2 million both in Oy Mankala Ab and the tunnel network. The rest of investments were targeted at new services and hydro power production.

Financing

In accordance with its financial policy, Helen Ltd manages the financing of its subsidiaries in a centralised way. The Group's equity ratio was 77%, and the amount of interest-bearing debts EUR 415 million (EUR 569 million) at the close of the financial year.

The interest-bearing debts of Helen Ltd consist of the subordinated loan (EUR 157 million), bullet, with a fixed 6% interest, taken out from the owner, a so-called senior debt (EUR 211 million) taken out from the owner, and loans taken out from financial institutions (EUR 42 million).

Helen Electricity Network Ltd has an extra-Group loan of EUR 5 million. The loan of Oy Mancala Ab taken out from the State Nuclear Waste Management Fund that amounted to EUR 84 million was paid in full, after which Mankala has no interest-bearing debts.

Shares

Helen Ltd has a commercial-paper programme of EUR 100 million, which has not been used yet.

The registered and fully paid share capital of Helen Ltd is EUR 600 million. The total number of shares is 1,000. The City of Helsinki owns all the shares.

Key events in the financial year

- Helen decided to initiate the planning of a new bioenergy heating plant to be built in Vuosaari. At the same time, it was possible to confirm the closing of the Hanasaari power plant after the necessary solutions to replace heat production were secured.
- Together with Vantaa Energy Ltd and Lahti Energia Oy, Helen decided to sell the shares of its subsidiary Suomen Energia-Urakointi Oy to KSS Energia Oy. The contracting company will continue to operate as a subsidiary of KSS Energia as of the beginning of May.
- A decision was made to build a heat pump in Vuosaari utilising the heat of sea water. Construction will start in 2020, and the new heat pump will be commissioned in 2022.
- Helen became a partner of the Helsinki Olympic Stadium with a common objective of improving energy efficiency. New environment- and energy-friendly solutions are introduced at the Olympic Stadium, which is undergoing modernisation.
- Helen launched a new virtual battery service to solar panel buyers. The virtual battery is a step towards a new kind of cleaner energy production, in which Helen's customers are also taking part.
- A unique city refinery is developed in Vuosaari in a joint project between Helen, Lassila & Tikanoja and VTT. Launched in 2019, the project pursues utilisation of materials and energy according to the circular economy. The Ministry of Economic Affairs and Employment granted energy aid of EUR 7.9 million to Helen for the investment.
- The first phase of the study on excess heat in Kilpilahti was completed. In Kilpilahti, the excess heat of Kilpilahti could meet about a quarter of the district heating demand of the entire Helsinki region.
- The City of Helsinki and Helen agreed on the delivery of a total of 59 new electric-vehicle charging points in the Helsinki city centre.
- Helen and Paulig launched a joint excess heat utilisation pilot at the Vuosaari coffee roastery. A
 new technical solution enables recovery of excess heat in quantities sufficient to cover the annual
 heat demand of 1,000 one-bedroom apartments. The recycling of excess heat generated by the
 production processes of the food industry to be utilised in the district heating network is unique in
 the Helsinki region.
- In August, Messukeskus Helsinki and Helen Ltd opened one of the largest solar power plants in Helsinki on the hall roofs of the Messukeskus Expo and Convention Centre. The solar power plant started operation at the end of August and the beginning of September 2019. The construction of an extension also started at the same time.
- In sales, a new type of trainee programme was launched in September. Helen is aiming for strong growth through new energy solutions, and the sales organisation is being strengthened with the trainee programme.
- Helen launched the new Helen Ventures investment with an aim to speed up the shift in the energy sector together with start-up partners. Helen Ventures is a strategic investor, which supports growth companies reforming the energy sector. Helen is investing about 50 million euros during the first five years.
- Helen sold the natural gas sales and distribution business to Suomen Kaasuenergia on 31 December 2019. The divested business has five corporate customers in Helsinki.

Employees

Helen Ltd had 863 (838) employees at the end of the year. The number of permanent employees was 818 (816), and the number of fixed-term employee s45 (22). The average number of employees was 861 (870). The average age of the employees was 46.2.(47.0) years, and the average length of employment was 15.9 (16.9) years. A total of EUR 49.4 million (EUR 47.3 million) was paid as wages and salaries in 2019.

Helen Electricity Network Ltd had 94 (98) employees at the end of the year. The number of permanent employees was 91 (96) and the number of fixed-term employees 3 (2). The average number of employees was 96 (105). The average age of the employees was 45.4 (44.9) years, and the average length of employment was 14.1 (13.9) years. Wages and salaries amounted to EUR 6.3 million (EUR 6.6 million) in 2019.

The rest of the subsidiaries, Oy Mankala Ab and Helsingin Energiatunnelit Oy had no employees at the end of 2019.

Research and development

A City Refinery is a concept launched by Helen, Lassila-Tiikanoja and VTT, referring to the circular economy. The companies are exploring opportunities to utilise society's underutilised material flows as raw materials in different end products according the circular economy. At the same time, the waste heat of the process is conducted to the district heating network. A production plant to be established in Vuosaari is being planned. The Ministry of Economic Affairs and Employment granted energy aid of EUR 7.9 million to Helen for the investment in December.

Helen is assessing the applicability of Small Modular Reactors to Helen's energy system. Helen has been involved in the preparations of the SMR ecosystem project coordinated by VTT, and the project will be launched in the early part of the year. We have been discussing various technology concepts with unit suppliers. An update of the Nuclear Energy Act will be started soon, and Helen will be involved in the work together with Finnish Energy.

Helen is involved in several research projects coordinated by VTT, funded by the EU. Among such projects are, e.g., the Fletch (Flexible combined production of power, heat and transport fuels from renewable energy sources) project and the VA BISYS (Value-optimised use of biomass in a flexible energy infrastructure) project.

The development of products and services has continued in services related to energy efficiency, the solar business and in electric traffic.

Helen is investigating possibilities for utilising geothermal heat. Geological surveys were carried out jointly with Geological Survey of Finland (GTK) in Helsinki towards the end of the year, and follow-up measures will be decided on the basis of the research findings. Geothermal heat is considered a possible solution for partly replacing of the use of coal in the Salmisaari power plant.

Internal control and risk management

The aim of our risk management measures is to ensure the security of energy supply and safeguard and increase the value of the Helen Group in the long term. Within the company, risk management means a systematic and proactive way of identifying, analysing and managing uncertainties related to operations. Comprehensive risk management is a business-oriented, systematic and standardised procedure that steers decision-making and operations throughout the organisation.

It is the responsibility of Helen's management to ensure that the company has efficient risk management and internal control practices with regard to the extent and content of its economy and business operations. With regard to the extent and structure of its operations, the company has extensively assessed the most significant risks and uncertainty factors, as well as other factors affecting operational development.

Internal control and risk management have been organised by including risk-management thinking in all activities of the company. Operating principles and the risk management handbook have been updated for energy trading. The energy trading principles and associated risk management practices outlined in the risk management handbook have been approved by Helen's Board of Directors.

The comprehensive development programme for risk management includes, e.g., a risk maturity model and year clock. The maturity model assesses the present level of risk management and sets a target level for it. Improvement of risk management is based on measures that help to achieve the target level. The Management Group of Helen Ltd assesses the level of risk management annually

Strategic risks

The most important uncertainty factor in the long-term development of business operations is the operating environment, where steering mechanisms, goals and schedules are constantly changing as a result of political decision-making. In a situation like this, it is challenging to plan long-term investments related to climate-neutral energy production. Our plans are clear, however. Helen will phase out the use of coal by 2029 at the latest, and our energy production will be carbon-neutral in 2035.

Financial risks

Significant business risks are mainly related to the strong fluctuation of the electricity market and its increasingly poor predictability. Competition in the electricity retail market is also becoming tighter. The fluctuations of electricity exchange prices result in business risks in wholesale and end-customer sales, as well as in electricity procurement. The Group is preparing itself for risks by hedging procurement and sales and by selling derivatives. In fuel procurement, the key risks are the volume and price risks. These risks are managed by using procurement and derivative contracts.

Operational risks

Significant operational risks can result in failures in production plants or networks and interruptions in production. This will give rise to additional costs in energy procurement and possible disruptions to energy supply. The production plants manage operational risks, e.g., through proactive maintenance of equipment and networks, condition monitoring and personnel training. The level and capabilities of cybersecurity are constantly assessed and improved.

The employment pension insurances and group life insurances have been taken out at Keva. The rest of insurances Ars are divided between four different insurance companies. The insurance protection covers damages to property, damage due to business interruptions, damage to third-parties, personal injuries and vehicle damage. It has been ensured that the coverage and excess levels of the insurances correspond to the insurance companies' risk-bearing capacity.

Ressponsibility

Helen aims for carbon neutrality in 2035. We will phase out the use of coal. even before 2035, by 2029 at the latest. Mitigation of climate change will. have a key impact on the planning of future energy solutions and investments. Investments will be carried out in stages to reduce emissions and to increase share of renewable energy sources with the opportunities offered by all new technologies We also develop new energy solutions together with our customers. The energy production of Helen Ltd falls within the scope of the EU Emissions Trading Scheme (EU ETS).

The impacts of the local emissions from Helen's energy production on air quality in the Greater Helsinki area are monitored as part of the air quality monitoring carried out by the Helsinki Region Environmental Services Authority HSY. The results of the monitoring show that the impacts of energy production on the air quality of Helsinki are minimal.

In addition to the climate and environment, Helen's operations impact people. Our goal is to openly provide information about our operations for our stakeholder groups and to find out their views and expectations.

During the year, the discussion themes of Helen's stakeholder groups included, among others, ceasing the energy use of coal, the sustainability of bioenergy and the impacts of bioenergy on the environment and society. We arranged opportunities for discussing the means of replacing coal, the future of the Vuosaari district and the shift taking place in the energy sector.

At Helen Ltd, the production and distribution of electricity, heat and cooling has been certified in accordance with the ISO 14001 environmental management standard. Helen Electricity Network Ltd applies an integrated quality and environmental management system that complies with the ISO 9001, ISO 14001 and OHSAS standards.

Helen Electricity Network has an occupational health and work safety system certified in accordance with the OHSAS 18001 standard. In other respects, the Quality and Environmental Management System comples with the Asset Standard ISO 55000, except for the fact that it has not been certified. The environmental impacts of all offices are managed with the Green Office environmental programme.

In 2019, Helen carried out an energy survey of its operations and properties, as required by the Energy Efficiency Ac. With respect to the Helen Group, Helen Ltd, Helen Electricity Network Ltd, Oy Mancala Ab, and Helsingin Energiatunnelit Oy. were surveyed. Suomen Energiaurakointi Oy was also surveyed until 2019. An individual survey required of large enterprises was carried out at the Vuosaari B power plant. The Group-level and subsidiary-level energy-use profiles and the key energy efficiency improvement areas that have been implemented or planned or require further studies are included in the Energy Survey Reports.

Annual General Meeting

The Annual General Meeting of Helen Ltd (1/2019) was held on 29 March 2019.KPMG Oy Ab was selected as the company's auditor. The auditor with the main responsibility was Kaija Pakkanen, Authorised Public Accountant. There was a change of auditor with the main responsibility; since May 2019, the auditor with the main responsibility has been Esa Kalliala, Authorised Public Accountant at KPMG Oy Ab.

Board of Directors

In the Annual General Meeting held on 29 March 2019, Osmo Soininvaara, Wille Rydman, Kaisa Hernberg, Marko Karvinen, Hillevi Mannonen, Timo Piekkari, Sirpa Puhakka and Daniel Sazonov were elected to the Board of Directors, along with a new member, Pirja Heiskanen to replace Hanna-Marreplace Hanna-Maria Heikkinen. Osmo Soininvaara was re-elected as Chairman of the Board and Wille Rydman as Deputy Chairman.

In addition, the owner has exercised its power of decision on 17 June 2019 by appointing Sallamaari Muhonen to replace Kaisa Hernberg, who resigned from the company's Board of Directors, for the remainder of the term of office as of 1 July 2019.

The Board of Directors convened 16 times. Four of the meetings were email meetings. The attendance percentage of the Board members in Board meeting was 94.4%.

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The Board Committees

The Board committees are the Audit Committee and the Personnel and Rewards Committee. The committees help the Board in carrying out its duties.

The members of the Audit Committee are Hillevi Mannonen as Chairman, and Hanna-Maria Heikkinen and Sirpa Puhakka as members. On 29 March 2019, the Board appointed Pirja Heiskanen to replace Hanna-Maria Heikkinen.

The committee meetings were regularly attended by the chief Financial Officer and the vice President, General Counsel, as the secretary of the committee, as well as by the auditor and any other experts that the committee had invited at any given time. The Audit Committee convened seven times during the year 2019.

The members of the Personnel and Rewards Committee were Osmo Soininvaara as Chairman and Wille Rydman and Timo Piekkari as members. The committee meetings were regularly attended by the President and CEO, and the Human Resources Manager as the secretary of the committee. The Personnel and Rewards Committee convened five times in 2019.

President and CEO

After Pekka Mannonen, who has acted as President and CEO of Helen Ltd, announced his intention to retire in spring 2020, the Board launched a headhunting project for a new CEO. In its meeting on 26 September 2019, the Board appointed Juha-Pekka Weckstöm, M.Sc. (Tech.) as the new President and CEO of Helen Ltd as of 1 April 2020.

Director Kauno Kaija, who has acted as a deputy for the President and CEO, retired on 31 December 2019.

During the financial period, a total of EUR 664,712 (EUR 550,195) was paid as salaries, fees and bonuses to the members of the company's Board of Directors and to the President and CEO and his deputy.

The Board of Directors' proposal for the distribution of dividends

The distributable equity of the parent company Helen Ltd stands at EUR 1,366,080,916.54, of which the profits from the previous financial years amount to EUR 36,969,150.56 and the profit from the financial year to EUR 77,939,372.53.

The Board of Directors proposes to the Annual General Meeting that the company should pay a dividend of EUR 68,000.00/share, totalling EUR 68,000,000.00, and that EUR 46,908,523.09 should be held as retained earnings. The Board of Directors proposes that the distribution of dividends should take place on 30 April 2020. The liquidity of the company is good, and the Board of Directors takes the view that the profit distribution will not jeopardise the company's liquidity.

Outlook

Price fluctuations in the electricity wholesale market are expected to gain strength in the next few years along with the rise in variable production. Competitiveness in the price of district heat will remain at a good level; due to the investment in carbon neutrality, it will remain competitive and in demand also in the future.

The natural gas market was opened to competition from the beginning of 2020 when the natural gas distribution and energy sales in the wholesale market were unbundled. As a result of the opening up of the market, the competitiveness of natural gas is expected to rise.

During the current government term, one of the biggest targets with regard to the energy sector is the comprehensive reform of energy taxation. From Helen's point of view, the most important area with a need for reform is related to the change of the electricity tax class for heat pumps producing heat to the district heating network from the current tax class I to tax class II. The change is necessary for making district heating carbon neutral.

Helen is actively promoting the fact that the comprehensive reform of energy taxation will take account of the steering effect of emissions trading as well as the new solutions in heat production and the customer end, and that it would not put an unreasonable tax burden on current heat production and that way increase the costs to customers.

In accordance with the strategy confirmed in spring 2019, Helen's answer to the shift in the energy sector is to invest strongly in the solutions business, e.g. in regional renewable energy, smart building solutions and electric traffic, and to build partnerships that support Helen's strategy. Forces are joined with customers in order to build a carbon-neutral future.

Helen aims to be carbon-neutral by 2035. The use of coal will be phased out even earlier, in 2029 at the latest. The Hanasaari power plant will be closed by the end of 2024, and its heat production will be replaced with heat recovery using heat pumps, energy storage and the bioenergy heating plant to be built in Vuosaari. The related investment decision was made in January 2020. A bioenergy heating plant is needed to cover the heating demand of Helsinki also during cold winters. The heating plant is scheduled for commissioning in the heating season 2022-2023, i.e. about a year earlier than anticipated.

The designed size of the bioenergy heating plant is 260 MWh and the investment value of the project is about EUR 260 million. The investment is not estimated to impact the price of district heating. In the Salmisaari power plant, coal will be replaced in 2029 at the latest; our aim is to find a solution not based on firing.

The results for 2020 are estimated be at the previous year's level. The company's outlook for the future is characterised by increasing uncertainty in the energy market resulting from the growing share of weather-dependent production in the Nordic energy market and the deregulation of the natural gas market. These factors will result in bigger price fluctuations in the energy commodity market. Helen has competence for operating in the market, and we will continue to develop our competences, while being aware of the fact that the company's results will vary more than before.

Group

	2019	2018
	€	€
NET TURNOVER	913,799 667.74	930,162,057.53
Variation in work in progress	915,359.82	-13,385.78
Work performed by the undertaking for its purpose and capitalized	3,348,456.05	3,319,686.13
Other operating income	5,850,737.32	5,328,099.75
Operating expenses		
Energy procurement	-60,700,471.44	-120,305,360.09
Purchase of electricity distribution	-352,589.45	-416,673.71
Materials, supplies and goods:		
Fuel	-338,494,013.47	-377,626,725.22
Variation in inventories	-18,801 ,319.02 decr.	5,968,394.07 incr.
Purchase of materials and supplies	-8,564,384.80	-14,532,198.34
External services	-48,938,792.81	-51,294,582.70
Staff expenses	-69,540,589.88	-72,810,115.41
Depreciation and value adjustment	-142,914,761.45	-124,999,855.01
Other operating charges	-59,392,626.39	-52,195,727.26
OPERATING PROFIT	176,214,672.21	130,583,613.96
Financial income and expenses:		
Income from associated companies	4,720,098.05	4,156,886.47
Dividend income	11,885.38	17,341.66
Other interest and financial income	768,544.38	914,061.88
Interest and other financial expenses	-21,654,602.25	-23,633,457.46
PROFIT BEFORE APPROPRIATIONS AND TAXES	160,060,597.78	112,038,446.51
Income taxes	-19,455,382.17	-10,084,274.27
Deferred taxes	-12,000,000.00	-12,000,000.00
Minority interests	-247,533.58	-453,419.31
PROFIT FOR THE FINANCIAL YEAR	128,357,682.03	89,500,752.93

BALANCE SHEET

ASSETS

	Group	
	31.12.2019	31.12.2018
	€	€
NON-CURRENT ASSETS		
Intangible assets		
Intangible rights	22,865,703.79	42,272,891.16
Group goodwill	26,876,291.24	28,966,397.41
Other long-term expenses	265,103.00	525,201.15
	50,007,098.03	71,764,489.72
Tangible assets		
Land and waters	5,259,862.38	5,259,862.38
Buildings and constructions	344,767,398.65	358,864,366.14
Machinery and equipment	1,358,199,202.69	1,397,092,837.54
Advance payments and		
construction in progress	44,795,493.56	60,780,798.81
	1,753,021,957.28	1,821,997,864.87
Investments		
Investments in associated companies	68,083,060.06	65,876,788.25
Participating interests	246,185,448.06	247,932,787.17
	314,268,508.12	313,809,575.42
CURRENT ASSETS Inventories Fuel Work in progress	71,579,977.91 0.00	90,312,739.13 1,749,662.56
Consumables	0.00	1,072,073.63
Consumables	71,579,977.91	93,134,475.32
Long-term receivables	1,010,011.01	55, 154, 47 5.52
Loan receivables	55,280,424.00	55,280,424.00
Other receivables	0.00	17,325.72
	55,280,424.00	55,297,749.72
Current receivables		
Accounts receivable	35,327,323.86	42,183,957.88
Group account receivables	98,593,728.65	62,848,008.06
Other receivables	12,283,310.03	25,679,266.71
Prepayments and accrued income	110,846,400.37	119,702,342.96
	257,050,762.91	250,413,575.61
Cash in hand and at banks	208,689,815.78	152,055,070.58
TOTAL	2,709,898,544.03	2,758,472,801.24
	2,100,000,044.00	2,100,112,001.24

BALANCE SHEET

EQUITY

	Group	
	31.12.2019	31.12.2018
	€	€
CAPITAL AND RESERVES		
Share capital	600,000,000.00	600,000,000.00
Invested unrestricted equity fund	1,251,172,393.45	1,251,172,393.45
Retained earnings	107,607,339.30	69,106,586.36
Profit for the financial year	128,357,682.03	89,500,752.93
	2,087,137,414.78	2,009,779,732.74
MINORITY INTERESTS	4,685,001.50	6,898,856.34
LIABILITIES		
Long-term debts		
Subordinated loan	157,000,000.00	157,000,000.00
Loans from the parent community	190,550,000.00	211,150,000.00
Financing loans	46,117,647.09	47,294,117.67
Other interest-bearing liabilities	227,807.30	83,681,197.62
Deferred tax liabilities	44,008,000.00	32,008,000.00
• · · · · · · · · · · · · · · · · · · ·	437,903,454.39	531,133,315.29
Current liabilities		
Financing loans	1,176,470.58	49,176,470.58
Loans from the parent community	20,600,000.00	20,600,000.00
Accounts payable	66,769,194.87	58,171,664.21
Other current liabilities	59,350,712.50	54,760,516.25
Deferred income and accrued liabilities	32,276,295.41	27,952,245.83
	180,172,673.36	210,660,896.87
TOTAL	2,709,898,544.03	2,758,472,801.24

CASH FLOW STATEMENT

CASH FLOW STATEMENT	0		
	Group		
	2019		2018
	€		€
Cash flow from operating activities			
Operating profit	176,214,672.21		130,583,613.96
Corrections:			
Depreciations according to plan	142,903,005.72		124,999,855.01
Use of emission allowances	19,252,549.27		11,147,843.03
Financial income and expenses	-20,867,110.91		-22,702,053.92
Taxes	-31,455,382.17		-21,932,953.87
Share of profits of associated companies	4,720,098.05		4,156,886.47
Cash flow before change in working capital	290,767,832.17		226,253,190.68
Working capital:			
Current receivables without interests	21,699,438.68		-47,265,998.95
Group account receivables	-35,745,720.59	1)	1,586,374.30
Current receivables	18,732,761.09	''	-5,904,744.14
Current liabilities without interest	34,518,911.36		30,464,895.58
Cash flow from operating activities (A)	329,973,222.71		205,133,717.47
			200,000,000
Cash flow from investing activities:			
Investments in tangible and intangible assets	-72,241,463.48		-61,583,219.22
Capital gain of tangible and intangible assets	3,591,779.47		
Other investments	-458,932.60		-2,314,906.74
Cash flow from investing activities (B)	-69,108,616.61		-63,898,125.96
Cash flow from financing activities:			
Current debts	-48,000,000.00		37,000,000.00
Long-term debts	-105,229,860.90		-99,809,753.30
Shareholders' equity	-51,000,000.00		-31,200,000.00
Cash flow from financing activities (C)	-204,229,860.90		-94,009,753.30
Change in cash and cash equivalents (A+B+C) increase (+)	56,634,745.20		47,225,838.21
/ decrease (-)	·		
Cash and cash equivalents at the beginning of the year	152,055,070.58		104,829,232.37
Cash and cash equivalents at end of the year	208,689,815.78		152,055,070.58
	56,634,745.20		47,225,838.21

1) 1) Change in cash and cash equivalents in the consolidated account is presented under cash flow from operating activities

PROFIT AND LOSS ACCOUNT

Parent company

	2019	2018
	€	€
NET TURNOVER	791,602,790.62	792,049,902.30
Work performed by the undertaking for its purpose and capitalized	2,736,606.27	2,250,214.51
Other operating income	10,865,683.18	8,547,423.52
Operating expenses		
Energy procurement	-57,276,465.54	-116,786,198.71
Purchase of electricity distribution	-7,831,761.85	-8,125,058.34
Materials, supplies and goods:		
Fuel	-338,494,013.47	-377,626,725.22
Variation in inventories	-18,732,761.22 decr.	6,382,062.68 incr.
Purchase of materials and supplies	-10,257,574.71	-9,054,598.37
External services	-22,468,399.51	-17,867,451.69
Staff expenses	-59,586,999.58	-57,025,037.27
Depreciation and value adjustment	-104,183,807.20	-86,331,809.72
Other operating charges	-56,032,282.97	-48,081,423.55
OPERATING PROFIT	130,341,014.02	88,331,300.14
Financial income and expenses:		
Dividend income	30,731,885.38	29,377,341.66
Other interest and financial income	9,837,690.18	10,679,289.51
Interest and other financial expenses	-21,248,814.03	-22,697,450.98
PROFIT BEFORE APPROPRIATIONS AND TAXES	149,661,775.55	105,690,480.33
Change in cumulative accelerated depreciation	-60,000,000.00	-60,000,000.00
Income taxes	-11,722,403.02	-3,304,505.19
PROFIT FOR THE FINANCIAL YEAR	77,939,372.53	42,385,975.14

BALANCE SHEET

ASSETS

Parent company

	31.12.2019	31.12.2018
	€	€
NON-CURRENT ASSETS		
Intangible assets		
Intangible rights	21,871,265.09	41,123,814.36
	21,871,265.09	41,123,814.36
Tangible assets		
Buildings and constructions	212,693,126.96	222,693,868.23
Machinery and equipment	953,172,879.96	984,834,590.46
Advance payments and		
construction in progress	35,720,835.81	52,773,058.49
	1,201,586,842.73	1,260,301,517.18
Investments		
Holdings in group undertakings	501,684,754.96	421,092,154.96
Receivables from group undertakings	280,745,000.00	259,315,000.00
Receivables from associated companies		
Holdings in associated companies	66,339,649.41	63,333,475.66
Other shares and holdings	120,049,823.65	121,912,037.90
	968,819,228.02	865,652,668.52
CURRENT ASSETS		
Inventories		
Fuels	71,579,977.91	90,312,739.13
	71,579,977.91	90,312,739.13
Long-term receivables		
Other receivables	0.00	17,325.72
	0.00	17,325.72
Current receivables		
Trade debtors	25,821,940.36	29,933,278.91
Loan receivables from group undertakings	6,570,000.00	6,570,000.00
Group account receivables	81,093,623.00	44,841,852.83
Other receivables	8,563,763.70	21,603,171.83
Prepayments and accrued income	105,521,841.55	114,442,684.04
	227,571,168.61	217,390,987.61
Cash in hand and at banks	189,231,328.43	141,633,709.16
TOTAL	2,680,659,810.79	2,616,432,761.68

BALANCE SHEET

EQUITY

	Parent company	Parent company
	31.12.2019	31.12.2018
	€	€
Share capital	600,000,000.00	600,000,000.00
Invested unrestricted equity fund	1,251,172,393.45	1,251,172,393.45
Retained earnings	36,969,150.56	45,583,175.42
Profit for the financial year	77,939,372.53	42,385,975.14
	1,966,080,916.54	1,939,141,544.01
APPROPRIATIONS		
Cumulative accelerated depreciation	160,000,000.00	100,000,000.00
LIABILITIES		
Long-term debts		
Subordinated loan	157,000,000.00	157,000,000.00
Loans from the parent community	190,550,000.00	211,150,000.00
Financing loans	42,000,000.00	42,000,000.00
Other interest-bearing liabilities	223,611.16	97,217.59
	389,773,611.16	410,247,217.59
Current liabilities		
Financing loans		20,000,000.00
Loans from the parent community	20,600,000.00	20,600,000.00
Accounts payable	67,319,886.12	56,707,344.77
Other current liabilities	51,448,766.55	51,117,905.24
Accruals and deferred income	25,436,630.42	18,618,750.07
	164,805,283.09	167,044,000.08
TOTAL	2,680,659,810,79	2,616,432,761.68

CASH FLOW STATEMENT

	Parent company		
	2019	2018	
	€	€	
Cash flow from operating activities			
Operating profit	130,341,014.02	88,331,300.14	
Corrections: Depreciations according to plan	104,183,807.20	86,331,809.72	
Use of emission allowances	19,252,549.27	11,147,843.03	
Financial income and expenses	19,320,761.53	17,359,180.19	
Taxes	-11.722.403.02	-3,304,505.19	
 Cash flow before change in working capital	261,375,729.00	199,865,627.89	
Working capital:			
Current receivables without interests	26,088,914.89	-37,855,684.15	
Group account receivables	-36,251,770.17	3,454,995.87	1)
Current receivables	18,732,761.22	-6,382,062.68	,
Current liabilities without interests	17,761,283.01	18,062,185.34	
Cash flow from operating activities (A)	287,706,917.95	177,145,062.27	
Cash flow from investing activities:			
Investments in tangible and intangible assets	-46,022,637.75	-32,318,943.63	
Capital gain of tangible and intangible assets	553,505.00	0.00	
Other investments	-103,166,559.50	-18,473,020.17	
Cash flow from investing activities (B)	-148,635,692.25	-50,791,963.80	
Cash flow from financing activities:			
Current debts	-20,000,000.00	14,000,000.00	
Long-term debts	-20,473,606.43	-70,633,282.72	
Shareholders' equity	-51,000,000.00	-31,200,000.00	
Cash flow from financing activities (C)	-91,473,606.43	-87,833,282.72	
Change in cash and cash equivalents (A+B+C) increase (+) / decrease (-)	47,597,619.27	38,519,815.75	
Cash and cash equivalents at the beginning of the year	141,633,709.16	103,113,893.41	
Cash and cash equivalents at end of the year	189,231,328.43	141,633,709.16	
· · · · ·	47,597,619.27	38,519,815.75	

1) Change in cash and cash equivalents in the consolidated account is presented under cash flow from operating activities

NOTES TO THE FINANCIAL STATEMENTS

Accounting principles

Scope of consolidated financial statements

The consolidated financial statements include the parent company Helen Ltd and its subsidiaries Helen Electricity Network Ltd, Oy Mankala Ab, Helsingin Energiatunneli Oy and Suomen Energia-urakointi Oy. Liikennevirta Oy, Voimapiha Oy and Suomen Merituuli Oy are consolidated as associated companies. The consolidated financial statements are prepared according to the Finnish Accounting Standards.

The Group is included in the Helsinki City Group as a sub-group. A copy of the financial statements of the City of Helsinki is available online at: www.hel.fi.

Accounting policies for the consolidated financial statements

Intra-group ownership of shares has been eliminated with the acquisition cost method. Intra-group transactions, the internal margin included in non-current assets, as well as intra-group balances have been eliminated. In the consolidated balance sheet, the difference of the acquisition cost and equity of subsidiaries has been allocated as Group goodwill, which is depreciated in five or 20 years. The share of equity exceeding the acquisition cost of subsidiaries has been allocated as Group goodwill, which is depreciated in five or 20 years. The share of equity exceeding the acquisition cost of subsidiaries has been allocated as Group goodwill, which is depreciated in five or 20 years. The share of equity exceeding the acquisition cost of subsidiaries has been allocated as Group goodwill. Minority interests have been separated from the balance sheet has been reported on a net basis and presented as Group goodwill. Minority interests have been separated from the capital and reserves and from the profit for the financial year and presented as a separate item. Associated companies have been consolidated financial statements with the equity method. The undepreciated share of the Group assets of associated companies is €1,937,014.28. Deferred tax liabilities have been entered in the balance sheet. The impact of the change in the recognition principles has not been adjusted in the net turnover and energy procurement of electricity wholesale for the reference year, no effect on profit or loss.

Valuation of current assets

Current assets are presented according to the FIFO principle as acquisition cost or as replacement cost if lower.

Valuation of fixed assets

Fixed assets are recognised in the balance sheet at purchase cost less depreciation according to plan and possible impairment. Depreciation according to plan is calculated as straight-line depreciation on the acquisition cost of fixed assets

DEPRECIATION PLAN Intangible assets

	Depreciation period, years
IT software	3-5
Other intangible rights	over their useful
	economic life
Goodwill	5-20
Emission allowances	according to use
Other long-term expenses	3-10
Tangible assets	
Land and waters	no deprecia
	tion period
Buildings and constructions	10-40
Networks	10-40
Machinery and equipment	3-30
IT equipment	3-10
Advance payments and construction	in progress No deprecia
	tion period
Investments of fixed assets	
Shares and holdings	No depreciation period
Group reserve recognised as revenue	20

Processing of connection fees

Connection fees that are transferrable but non-refundable have been entered as income in the profit and loss account.

	Group		Parent com- pany	
	2019	2018	2019	2018
	€1,000	€1,000	€1,000	€1,000
1. Turnover				
Electricity sales	312,166	327,793	312,166	327,793
Sales of electricity distribution	121,042	117,712		
S	446,717	435,413	446,717	435,413
Sales of district cooling	21,259	18,425	21,259	18,425
Other income	12,616	30,819	11,461	10,419
Total	913,800	930,162	791,603	792,050
2. Variation in work in progress	915	-13		
3. Work performed by the undertaking for its purpose and capitalized	3,348	3,320	2,737	2,250
4. Other operating income				
Service sales	3,129	2,116	8,403	6,479
Income from payment reminders	1,006	840	1,006	840
Other	1,716	2,372	1,457	1,229
Total	5,851	5,328	10,866	8,547

	Group		Parent com-	Parent com-
			pany	pany
	2019 €1,000	2018 €1,000	2019 €1,000	2018 €1,000
5. Fuels and energy procurement	€1,000	€1,000	€1,000	€1,000
Purchase of electricity	59,374	119,399	55,950	115,879
Purchase of heat	1,326	907	1,326	907
Purchase of electricity distribution	353	417	7,832	8,125
Purchase of fuels	321,536	364,510	321,536	364,510
Change in fuel stores	18,733	6,382	18,733	-6,382
Emission allowances Total	<u>16,958</u> 418,280	<u>13,116</u> 491,967	<u>16,958</u> 422,335	<u>13,116</u> 496,156
i dai	410,200	431,307	-22,000	490,100
5. External services				
Grid fees	19,967	21,461		
construction and land construction projects	6,763 160	13,472 307	3,857 160	3,535 307
ther external services	22,049	16,055	18,453	14,025
Total	48,939	51,295	22,470	17,867
Staff	,	,	·	
verage number of personnel				
Number of monthly salaried employees	957	1,120	861	870
Number of personnel	957	1,120	861	870
	2040	2040	2040	2040
taff costs	2019 €1,000	2018 €1.000	2019 €1,000	2018 €1,000
	,			
/ages and salaries ension expenses	58,120 9,670	60,419 10,423	49,390 8,599	47,334 8,054
ther social charges	9,870 1,751	1,968	1,598	1,637
Total staff costs	69,541	72,810	59,587	57,025
alue of fringe benefits for tax purposes	269	279	217	221
Total	69,810	73,089	59,804	57,247
emuneration of the Board and key manage- ent	1,077	926	665	550
. Depreciation and value adjustment				
epreciation according to plan	124,236	122,671	87,621	86,332
crapping and reduction in value	15,894	227	15,800	00,002
xpenses of fixed assets sold	993	12	762	
epreciation of consolidated goodwill	7,421	7,719		
roup reserve recognised as revenue Total	<u>5,629</u> 142,915	<u>5,629</u> 125,000	104,184	86,332
Other operating charges	142,010	120,000	104,104	00,002
and leases	7,506	7,633	6,163	6,131
ther leases	6,092 16 458	6,579 14,002	10,177	9,930
formation technology and expert services ehicle and equipment expenses	16,458 2,177	14,002 3,429	15,296 2,536	12,806 2,302
epresentation and marketing	7,653	4,961	7,648	4,903
isurance policies	1,099	1,151	966	980
udit fees	20	59	16	23
ther costs	18,387	14,381	13,229	11,007
Total	59,393	52,196	56,032	48,081
0. Financial income and expenses				
hare of profits of associated companies ividend income	4,720	4,157		
From Group undertakings			25,200	25,200
			5,520	4,160
		17	12	17
rom others	12			
From others terest income on long-term investments From Group undertakings	12		9,549	10,239
From others terest income on long-term investments From Group undertakings ther interest and financial income	12		9,549	10,239
From others terest income on long-term investments From Group undertakings ther interest and financial income From Group undertakings	12 769	914	9,549 288	10,239 <u>440</u>
From others terest income on long-term investments From Group undertakings ther interest and financial income From Group undertakings		<u>914</u> 5,088		
nterest expenses	769 5,501	5,088	<u>288</u> 40,569	<u>440</u> 40,057
From others tterest income on long-term investments From Group undertakings tther interest and financial income From Group undertakings From others Total financial income tterest expenses Interest expenses on a subordinated loan	769 5,501 9,420	5,088 9,420	<u>288</u> 40,569 9,420	<u>440</u> 40,057 9,420
From others Interest income on long-term investments From Group undertakings Ither interest and financial income From Group undertakings From others Total financial income Interest expenses Interest expenses on a subordinated loan Interest expenses on a senior debt	769 5,501	5,088	<u>288</u> 40,569	<u>440</u> 40,057
From others terest income on long-term investments From Group undertakings ther interest and financial income From Group undertakings From others Total financial income terest expenses nterest expenses on a subordinated loan	769 5,501 9,420	5,088 9,420	<u>288</u> 40,569 9,420	<u>440</u> 40,057 9,420
rom others terest income on long-term investments rom Group undertakings ther interest and financial income rom Group undertakings rom others Total financial income terest expenses nterest expenses on a subordinated loan nterest expenses on a senior debt ther interest and financial expenses	769 5,501 9,420	5,088 9,420	<u>288</u> 40,569 9,420	<u>440</u> 40,057 9,420

11. Non-current assets	Group		Parent com- pany	
	2019	2018	2019	2018
	€1,000	€1,000	€1,000	€1,000
Intangible assets				
Acquisition cost 1.1.	53,513	61,448	50,454	58,905
Increases 1.1. – 31.12.	528	5,182	336	4,666
Decreases 1.131.12.	16,964	13,116	16,958	13,116
Acquisition cost 31.12.	37,077	53,513	33,832	50,454
Accumulated depreciation 1.1. Depreciation 1.131.12.	10,715 3,230,821	7,497	9,330 2,631	6,633 2,697
Book value 31.12.	23,131	3,218,267 42,798	21,871	41,124
Dook value 31.12.	25,151	42,730	21,071	41,124
Group goodwill				
Acquisition cost 1.1.	149,904	149,904		
Increases 1.131.12.				
Decreases 1.131.12.	298			
Acquisition cost 31.12.	149,605	149,904		
Accumulated depreciation 1.1. Depreciation 1.131.12.	30,876 7,421	23,157 7,719		
Book value 31.12.	111,309	119,028		
Carried over from Group reserve	84,433	90,061		
Group goodwill in the balance sheet 31.12.	26,876	28,966		
Group goodwin in the balance sheet of 1.12.	20,010	20,000		
Group reserve				
Value 1.1.	90,061	95,690		
Increases 1.131.12.				
Decreases 1.131.12.	5,629	5,629		
Value 31.12.	84,433	90,061		
Book value 31.12.	84,433	90,061		
Carried over to Group goodwill	84,433	90,061		
Group goodwill in the balance sheet	-	-		
31.12.				
Land and waters Acquisition cost 1.1.	5 000	5.206		
Increases 1.1.–31.12.	5,260	5,206 54		
Decreases 1.131.12.		54		
Acquisition cost 31.12.	5,260	5,260		
Book value 31.12.	5,260	5,260		
Buildings and constructions				
Acquisition cost 1.1.	432,375	425,438	274,715	271,271
Increases 1.131.12.	5,934	6,938	3,557	3,444
Decreases 1.131.12.	224	100.075		074 745
Acquisition cost 31.12.	438,085 73,511	432,375	278,272 52,021	274,715 38,634
Accumulated depreciation 1.1. Depreciation 1.131.12.	19,806,780	53,944 19,567,425	13,557	13,387
Book value 31.12.	344,767	358,864	212,693	222,694
BOOK Value 31.12.	544,707	330,004	212,055	222,094
Machinery and equipment				
Acquisition cost 1.1.	1,786,896	1,724,828	1,259,457	1,224,339
Increases 1.1.–31.12.	79,241	63,339	56,334	35,118
Decreases 1.131.12.	16,798	1,270	16,562	
Acquisition cost 31.12.	1,849,338	1,786,896	1,299,228	1,259,457
Accumulated depreciation 1.1.	389,803	290,582	274,622	204,375
Depreciation 1.131.12.	101,336,168	99,221,136	71,433	70,247
Book value 31.12.	1,358,199	1,397,093	953,173	984,835
Advance management of the second state				
Advance payments and fixed assets in progress Acquisition cost 1.1.	60,754	72,373	52,773	61,713
Acquisition cost 1.1. Increases 1.1.–31.12.	66,794	72,373 59,575	52,773 42,320	32,553
Decreases 1.131.12.	82,752	71,194	59,372	41,493
Acquisition cost 31.12.	44,795	60,754	35,721	52,773
Book value 31.12.	44,795	60,754	35,721	52,773

Investments 31.12.2019		Group			Parent con	npany			
	Domicile	Numb	per Share	% Book value	Number Share % Book value				
Shares and holdings				€			€		
Shares and holdings in Group companies									
Oy Mankala Ab	litti				42,500,262	100.0%	381,600,000		
Helen Sähköverkko Oy	Helsinki				42,000	100.0%	84,000,000		
Helsingin Energiatunnelit Oy	Helsinki				360,081	90.0%	36,084,755		
Associated companies									
Voimapiha Oy	Helsinki	400,000	33.3%	65,688,443	400,000	33.3%	60,000,000		
Liikennevirta Oy Suomen Merituuli Oy	Helsinki Helsinki	26,532 1,000	35.5% 50.0%	1,394,342 1,000,275	26,532	35.5%	6,339,649		
Submen Mentuun Oy	FIEISIIIKI	1,000	50.076	1,000,275					
Other shares/participating interests									
Teollisuuden Voima Oyj	Helsinki	110,674,771	8.1%	117,499,060	502.000	c 00/	FF 7F0 000		
EPV Energia Oy Pohjolan Voima Oyj	Vaasa Helsinki	503,006 201,316	6.2% 0.6%	55,750,209 13,821,107	503,006 201,316	6.2% 0.6%	55,750,209 13,821,107		
Kemijoki Oy	Rovaniemi	39,095	1.6%	50,176,665	39,095	1.6%	50,176,665		
Helsinki Halli Oy	Helsinki	12		201,826	12		201,826		
CLIC Innovation Oy	Helsinki	100	2.2%	100,000	100	2.2%	100,000		
Suomen Hyötytuuli Oy	Pori	276	12.5%	8,636,564					
Suomen Messut osuuskunta	Helsinki	1		17 1	1		17 1		
Helsingin Konsernihankinta Oy	Helsinki	3		1	I		1		
Other investments									
Capital loan, Helen Electricity Network Ltd, 1.10.200 authority + 2 percentage points	06–30.9.2026, intere	est is the reference	rate of inte	rest confirmed by	the electricity market		146,000,000		
Loan Helen Electricity Network Ltd, instalment is fixe	ed rate of 5% of tota	Il Ioan					29,390,000		
Loan Helen Electricity Network Ltd, bullet							28,000,000		
Loan Helen Electricity Network Ltd, bullet							20,000,000		
Loan Helen Electricity Network Ltd, bullet							21,000,000		
Loan Helen Electricity Network Ltd, bullet Loan Helsingin Energiatunnelit Oy, instalment is fixe	d rate of E% of tota	Lleen					5,000,000 37,925,000		
Loan Heisingin Energiaturnent Oy, instament is not		liuali					37,923,000		
		Group		Group	Parent com- pany		Parent com- pany		
		2019		2018	2019		2018		
12. Receivables		€1,000		€1,000	€1,000		€1,000		
Short-term receivables from group undertakings									
Intra-group loan, interest-bearing					6,570		6,570		
Trade receivables					714		416		
Accrued income and prepaid expenses					<u>7,237</u> 14,521	-	<u>8,051</u> 15,036		
					14,021		10,000		
Accrued income and prepaid expenses									
Accrued sales Accrued direct taxes		108,786		117,227 627	97,258		105,564 483		
Other accrued income		2,060		1,849	8,264		483 8,396		
		110,846	-	119,702	105,521	-	114,443		
13. Equity									
Share capital 31.12.		600,000		600,000	600,000		600,000		
Restricted shareholders' equity, total		600,000	-	600,000	600,000	-	600,000		
Invested unrestricted equity fund 31.12.		1,251,172		1,251,172	1,251,172		1,251,172		
Retained earnings 1.1.		158,607		100,307	87,969		76,783		
Minority interests in retained earnings					. ,		-, ->		
Distribution of dividends		51,000		31,200	51,000		31,200		
Adjustment of retained earnings									
Retained earnings 31.12.		107,607		69,107	36,969		45,583		
Profit for the financial period 31.12.		128,358	_	89,501	77,939	_	42,386		
Unrestricted shareholders' equity, total		1,487,137		1,409,780	1,366,081		1,339,142		
Total equity		2,087,137		2,009,780	1,966,081		1 939 142		

	Group	Group	Parent com- pany	Parent com- pany
	2019	2018	2019	2018
14. Liabilities falling due after five years	€1,000	€1,000	€1,000	€1,000
Subordinated loan from the City	157,000	157,000	157,000	157,000
Other loans from the City	108,150	128,750	108,150	128,750
Loans from financial institutions Nuclear waste management loan	11,733	15,333	11,733	14,667
Total	276,883	301,083	276,883	300,417

The capital loan that Helen Ltd has taken out from the City of Helsinki may be returned prematurely either in full or in part if the borrower so wishes. The loan capital may be returned only to the extent that the amount of Helen Oy's unrestricted shareholders' equity and all capital loans at the time of payment exceeds the losses confirmed for the company's last completed financial period or balance sheet included in a more recent financial statement. The annual interest for the loan is six per cent (6%).

15. Current liabilities

Current liabilities to group undertakings				
Accounts payable			3,380	4,655
Other liabilities			972	5,185
Accruals			55	760
Accidais				10,601
			4,408	10,601
Current liabilities to associated companies				
Accounts payable	1,664	1,924	1,664	1,924
	1,664	1,924	1,664	1,924
Accruals				
Periodisation of holiday pay and holiday allowance	11,488	13,217	10,215	10,249
		,		
Interests	3,079	4,250	3,070	3,332
Accrued direct taxes	8,324	2,764	8,011	
Other accruals	9,385	7,721	4,141	5,038
	32,276	27,952	25,437	18,619
16. Commitments and contingent liabilities				
Security deposits				
Bank liabilities	33	33	33	33
Rental liabilities				
Due in 2020	4,173	4,150	3,358	3,336
Due at a later date	2,385	3,086		
Leasing liabilities				
Due in 2020	138	1,398	98	523
Due at a later date	1,164	1,214	1,103	673
Directly enforceable				
guarantees		11,065	30,000	
Construction and warranty guarantees		1,510		

A separate bank account is in use for electricity trading and the related security, the balance of which on 31 December 2019 was EUR 30,000. Oy Mankala Ab is committed to providing two separate shareholder loans to Teollisuuden Voima Oyj for a total amount of EUR 36.6 million, of which EUR 20.3 million is outstanding.

17. Related party transactions

Transactions between Helen Ltd and Group companies:

Oy Mankala Ab	Sales	410	382
As the owner of a power plant company op cost price.	Purchases erating under the Mankala principle, Helen Ltd bears the co	25,566 sts of the company's operations and, in return, rece	35,121 ives electricity at
Helen Electricity Network Ltd	Sales	7,822	8,761
-	Purchases	8,547	8,337
	Dividend income	25,200	25,200
	Interest income	7,561	8,141
Helsingin Energiatunnelit Oy	Sales	1,173	1,117
	Purchases	5,997	5,903
	Interest income	1,989	2,174
One of the state o	0.1	100	101

Suomen Energia-Urakointi OySales122184Voimapiha OyDividend income5,5204,160

Electricity derivatives

Group

2018

Ar under

Parent company

2019	Amour	nt, GWh		Fair va	lue, EUR 1	1,000	2019	Amour	nt, GWh		Fair va	lue, EUR 1	1,000
	under 1 yr	over 1 yr	Total	under 1 yr	over 1 yr	Total		under 1 yr	over 1 yr	Total	under 1 yr	over 1 yr	Total
Purchased	2,531	1,212	3,743	1,405	1,515	2,920	Purchased	2,531	1,212	3,743	1,405	1,515	2,920
Sold	3,839	1,467	5,306	3,890	-184	3,706	Sold	3,839	1,467	5,306	3,890	-184	3,706
Total	-1,308	-255	-1,563	5,295	1,330	6,626	Total	-1,308	-255	-1,563	5,295	1,330	6,626

The fair value of electricity derivatives describes the amount in euros recognised in the profit and loss account concerning the derivatives in the future, at the market price on the date of closure of the accounts.

	Fair value a	s cash flow		EUR 1,000				Fair value a	s cash flow		EUR 1,000
	Accumulate	d cash flow, de	ebt	7,414				Accumulate	d cash flow, d	lebt	7,414
	Future cash	flow		-788				Future cash	flow		-788
	Fair value			6,626				Fair value			6,626
mount, GWh		Fair valu	ue, EUR 1	,000,	2018	Amour	nt, GWh		Fair val	ue, EUR 1	,000
r1yr over1 yr	Total	under 1 yr	over 1 yr	Total		under 1 yr	over 1 yr	Total	under 1 yr	over 1 yr	Total

		yr			1 yr				yr			yr	
Purchased	2,759	1,423	4,182	26,145	6,633	32,778	Purchased	2,617	1,193	3,810	24,127	4,865	28,992
Sold	4,596	2,178	6,774	-46,720	-8,519	-55,239	Sold	4,596	2,178	6,774	-46,720	-8,519	-55,239
Total	-1,837	-755	-2,592	-20,575	-1,886	-22,461	Total	-1,979	-985	-2,964	-22,593	-3,655	-26,248
		F	air value as	cash flow		EUR 1,000			F	air value as	cash flow		EUR 1,000
						10 700			-				10 5 17

Accumulated cash flow, receiva	12,760	Accumulated cash flow, receiva-	-16,547
ble		ble	
Future cash flow	-9,701	Future cash flow	-9,701
Fair value	-22,461	Fair value	-26,248

The purpose of the electricity derivatives trade is to hedge future purchases and sales of electricity taking place at the market price. All trading takes place in a controlled way within accepted risk limits and operating guidelines. Derivatives trading implements the risk management policy approved by Helen's Board of Directors and the guidelines on the operating principles and risk management in energy trading.

The majority of derivative contracts are Nordic electricity futures products of Nasdaq Commodities, which are traded on in the Nordic commodity derivatives exchange Nasdaq OMX Oslo ASA. The maximum duration of the derivatives is five years as from the balance sheet date

Sheet date. All derivatives have hedging properties and therefore their fair values, i.e. the value changes concerning future accounting periods, have not been recognised in the result of the last completed accounting period. In later accounting periods, the realised result of the derivatives is recognised for the same period as the hedged items. Physical electricity trading is carried out through the Nordic electricity exchange Nord Pool AS. In accounting, physical hourly-based sales and purchases are netted and presented as income. With respect to electricity derivatives, the hedging of sales is recorded in turnover and the hedging of purchases in energy procurement.

Currency derivatives

Group

Parent company

2019	Nomin	al value,	EUR 1,000	Fair value, EUR 1,000			2019	Nominal value, EUR 1,000			Fair value, EUR 1,000		
	under 1 yr	over 1 yr	Total	under 1 yr	over 1 yr	Total	_	under 1 yr	over 1 yr	Total	under 1 yr	over 1 yr	Total
Purchased	11,389	2,830	14,220	175	21	196	Purchased	11,389	2,830	14,220	175	21	196
Sold	11,649	241	11,890	104	1	105	Sold	11,649	241	11,890	104	1	105
Total	-260	2,590	2,330	279	22	301	Total	-260	2,590	2,330	279	22	301
2018							2018						

2018					2018				
Purchased	22,512	22,512	696	696	Purchased	22,512	22,512	696	696
Sold	18,439	18,439	-270	-270	Sold	18,439	18,439	-270	-270
Total	4,073	4,073	426	426	Total	4,073	4,073	426	426

Currency derivatives are used for hedging coal purchases in USD. The maximum duration of the derivatives is five years as from the balance sheet date.

Coal derivatives

Group

Parent company

2019	Amount, 1,000 t		Fair value, EUR 1,000			2019	Amount, 1,000 t		Fair value, EUR 1,000				
	under 1 yr	over 1 yr	Total	under 1 yr	over 1 yr	Total		under 1 yr	over 1 yr	Total	under 1 yr	over 1 yr	Total
Purchased	222	48	270	-2,835	-263	-3,098	Purchased	222	48	270	-2,835	-263	-3,098
Sold	171		171	1,172		1,172	Sold	171		171	1,172		1,172
Total	51		99	-1,662	-263	-1,925	Total	51		99	-1,662	-263	-1,925
2018							2018						
Purchased	288		288	550		550	Purchased	288		288	550		550
Sold	186		186	1,476		1,476	Sold	186		186	1,476		1,476
Total	102		102	2,026		2,026	Total	102		102	2,026		2,026

Coal derivatives are used for hedging physical purchases of coal taking place in the future. The derivatives are implemented as cash payments, and their maximum duration is five years as from the balance sheet date.

Emission derivatives

Group							Parent com	pany					
2019	Amount, 1,000 t		Fair value, EUR 1,000			2019 Amount,		, 1,000 t		Fair value, EUR 1,000			
	under 1 yr	over 1 yr	Total	under 1 vr	over 1 vr	Total		under 1 yr	over 1 vr	Total	under 1 vr	over 1 vr	Total
Purchased	84	205	289	-74	-139	-213	Purchased	84	205	289	-74	-139	-213
Sold							Sold						
Total	84	205	289	-74	-139	-213	Total	84	205	289	-74	-139	-213
2018							2018						
Purchased							Purchased						
Sold							Sold						
Total							Total						

The purpose of using emission derivatives is based on the trading need according to actual and predicted emission levels and the emission allowances granted in the initial allocation. Emission derivatives are futures contracts ending with physical delivery, and their maximum duration is five years as from the balance sheet date.

Emissions trading

Helen Ltd has been granted emission allowances for a total of 7 million tonnes of CO₂ for 2013–2020. The estimated actual emissions in 2019 total 3.2 million tonnes of CO₂. In 2019, there were no deliveries based on emission allowance trading. In intangible assets in the balance sheet, emission allowances and corresponding allowances totalled 1.3 million tonnes of CO₂ on 31 December 2019 after deduction of use in 2019. In accounting, emission allowances are dealt with using the so-called net method in accordance with statement 1767/2005 of the Finnish Accounting Standards Board.

Interest rate derivatives

EUR 1,000	G	roup	Parent company		
	2019	2018	2019	2018	
Interest rate swap					
Nominal value corresponding to the principal of the amortized loan at the balance sheet date	22,000	22,000	22,000	22,000	
Fair value (according to the bank)	-736	-163	-736	-163	
Loan amortization begins 30 November 2021.					
Interest rate swap has been drawn up for hedging the interest risk of an individual loan. Variable interest rates have been converted to fixed rates with the interest rate swap. The repayment programme, due dates and interest payment dates of the principal amount of the loan and the interest rate swap correspond with one another. The contract expires on 30 November 2028 and the contract has no escape clause. Interest is paid every six months.					

Only swaps, caps, collars or other instruments that unambiguously limit the maximum level of interest rate are used in interest rate hedging.

The fair values of derivatives are based on the market prices at the balance sheet date. Changes in the value of derivative contracts drawn up for hedging purposes are recorded in profit or loss for the same period as the underlying instruments they are hedging. If there are derivative contracts that have been drawn up for purposes other than hedging, their unrealised loss shall be recognised in profit or loss for the accounting period.

16. Items denominated in foreign currencies

Items denominated in a foreign currency have been valued at the exchange rate applying at the balance sheet date.

17. Court proceedings and disputes

Helen's subsidiary Oy Mankala Ab is taking part in the construction of the 1,600-MW Olkiluoto 3 nuclear power plant unit through its shareholding (about 8,14%) in Teollisuuden Voima Oyj (TVO). Olkiluoto 3 EPR (OL3 EPR) is a nuclear power plant unit under construction. It has been ordered as a fixed-price turnkey contract from a consortium (plant supplier) formed by Areva GmbH, Areva NP SAS and Siemens AG. The supplier consortium companies are jointly liable for the contractual obligations in accordance with the plant supply contract.

In December 2019, TVO received from the plant supplier an updated schedule on the commissioning of the OL3 EPR plant unit. According to the information received, fuel will be loaded into the reactor in June 2020, the first connection of the plant unit to the national grid will take place in November 2020 and regular electricity production from the plant unit will start in November 2021. In accordance with the commissioning programme, the plant unit lip roduce 1-3 terawatt-hours of electricity with varying power levels during a time that begins with grid connection and ends with the start of regular electricity production.

The civil engineering works of the plant unit have mainly been completed. Electricity, automation and mechanical installations are still partly incomplete. The Radiation and Nuclear Safety Authority in Finland (STUK) granted the operator licences for the operating personnel in late 2018. The hot functional tests carried out in spring 2018 detected vibrations in the pressuriser surge line, which is part of the reactor cooling circuit. In May 2019, STUK approved the solution to absorb vibration, and the absorbers have been installed in place. STUK will inspect the acceptability of the absorber structures before nuclear fuel is loaded into the reactor.

The Finnish Government granted an operating licence for the plant unit in March 2019. At the end of the reporting period, the number of personnel working at the site was about 1,700. The occupational safety of the worksite remained at a good level.

The plant supplier paid the second instalment of the compensation according to the comprehensive settlement agreement agreed in 2018, EUR 122 million, to TVO in December 2019. All realised expenses that meet the activation criteria of the OL3 EPR project have been recorded in the TVO Group's balance sheet under acquisition cost of property, plant and equipment. Oy Mankala Ab owns about 8.14% of the Olkiluoto 3 nuclear power plant unit and is committed to financing the construction in proportion to its shareholding. At the end of December 2019, Oy Mankala Ab's shareholder loan to TVO amounted to EUR 55 million. The amount of the remaining commitment of Oy Mankala Ab to the OL3 unit is about EUR 20 million.

Risks related to TVO's Olkiluoto 3 EPR plant unit:

Schedule and planned completion

TVO's major risks are related to the schedule of the OL3 EPR project, to sufficient financial capacity of the consortium company Areva to meet its obligations until the end of the guarantee period, and to profit-yielding capacity. According to the contract, commercial electricity production of the plant unit was originally due to start at the end of April 2009. The completion of the project has, however, been delayed. According to the schedule last updated by the plant supplier in December 2019, regular electricity production of the plant unit will commence in March 2021.

The risk related to the planned completion refers to a situation where commercial use cannot be launched as planned, which leads to additional costs. During 2019, TVO executed several risk management measures related to the OL3 EPR project to improve TVO's readiness to commission the plant unit as well as operate three nuclear power plant units. TVO monitors closely the compliance of the conditions set in the settlement agreement and the stages of commissioning the OL3 EPR plant unit to ensure that they are implemented according to the plant supplier's schedule and in compliance with the financial and technical resources.

Profit-yielding capacity of OL3

If the OL3 EPR plant unit fails to reach the projected output level, load factor or operating cost structure or the output level is restricted by the main grid, there is a risk that the production cost will rise in comparison to the objective. This risk has been analysed by TVO with the help of various scenarios influencing the profit-yielding capacity of OL3 EPR. As risk management measures, TVO as a licensee ensures, among other things, that the OL3 EPR plant unit has undergone extensive functional testing before nuclear test operations are launched. TVO will ensure that the experiences from the Taishan sister plants are utilised during nuclear commissioning of the OL3 EPR plant unit.

Helen Ltd

UNBUNDLING OF ELECTRICITY BUSINESS OPERATIONS

By virtue of the Electricity Market Act, a company operating in the electricity market shall unbun-dle electricity network operations from other electricity trade operations by the company. Further details about unbundling are set out in the decree of the Ministry of Trade and Industry (79/2005). Electricity network operations are unbundled into a separate limited company. Other electricity business operations consist of electricity production and sale business operations. Non-current and current assets have been allocated according to the matching principle. The allocation of share capital, funds and non-current liabilities is based on the risk bearing of business operations. Current liabilities are allocated according to the matching principle. Allocation of income and expenses has taken place according to the matching principle with the aid of internal accounts. Income taxes are recognised in relation to income formation. Income, expenses, receivables and debts of unbundled business operations also include the company's internal items.

OTHER ELECTRICITY BUSINESS OPERATIONS PROFIT AND LOSS ACCOUNT 1.1.2019 - 31.12.2019

	2019	2018
	€	€
TURNOVER	304,774,184	328,336,245
Work performed by the undertaking for its own purpose and capitalised	207,506	596,370
Other operating income	298,259,114	279,410,181
Expenses		
Purchase of energy Materials, supplies and goods:	-65,469,197	-122,971,078
Power plant fuel purchases	-336,032,098	-362,760,559
Change in fuel stores	-18,732,761 decr.	6,382,063 incr.
Material and goods purchases	-9,658,113	-3,694,547
External services	-18,459,623	-18,382,480
Staff costs	-24,649,403	-22,564,499
Planned depreciation	-29,762,024	-22,013,997
Other operating charges	-25,460,637	-23,658,455
OPERATING PROFIT	75,016,946	38,679,243
Financial income and expenses:		
Financial income	5,531,885	4,379,302
Financial expenses	-7,883,310	-8,640,555
PROFIT BEFORE APPROPRIATIONS	72,665,522	34,417,990
Change in cumulative accelerated depreciation	-14,367,623	-24,477,077
Income taxes	-11,659,580	-1,988,182
PROFIT FOR THE PERIOD	46,638,319	7,952,730

OTHER ELECTRICITY BUSINESS OPERATIONS BALANCE SHEET 31.12.

€1,000	2019 €	2018 €
ASSETS		
Non-current assets		
Intangible assets	13,300,501	30,367,350
Tangible assets	228,247,145	255,959,411
Investments	561,347,981	479,210,194
Advance payments on procurement and		
fixed assets in progress	1,976,651	1,386,829
Current assets		
Inventories	31,188,014	39,746,345
Receivables	178,826,696	177,496,286
Total	1,014,886,987	984,166,415
EQUITY AND LIABILITIES Equity		
Share capital	222,600,000	222,600,000
SVOP fund	464,184,958	464,184,958
Retained profits	10,809,600	17,908,932
Profit for the period	46,638,319	7,952,730
Accumulated appropriations		
Depreciation difference	38,313,662	23,946,038
Liabilities		
Long-term		
Share of loans	152,165,650	167,228,250
Current liabilities	80,174,799	80,345,507
Total	1,014,886,987	984,166,415