

# **Energy Efficiency Agreement for Industries**

# Company Accession Document Action Plan for the Energy-Intensive Industry

Company:		
	(Name of the Company)	

joins the Action Plan for the Energy-Intensive Industry of the Energy Efficiency Agreement for Industries with this document and its appendices (Accession Details, Action Plan), and commits itself to implementing the Action Plan attached to this document.

The Company joins the Energy Efficiency Agreement for Industries once the Confederation of Finnish Industries EK has established that the accession document signed by the Company and the accession details attached to the document are in due form and the Confederation has submitted a copy of the documents to be entered into the participant register.

# Implementation of the agreement

In order to achieve the targets of the Energy Efficiency Agreement for Industries, the Company

- in general, includes all of its sites in Finland and their energy use in the Action Plan, as referred to in section 1.3 of the Action Plan
- on joining the agreement scheme, sets an indicative energy savings target for 2020 and 2025, as defined in section 2.2 of the Action Plan; the implementation of the target will be monitored as described in the Action Plan
- commits itself to contributing to the implementation of the Energy Efficiency Agreement for Industries, as described in section 3.4, "Obligations of the Company" of the attached Action Plan.

# Termination by the Company's withdrawal, dismissal of the Company and the Company's withdrawal

The agreement that joins the Company in the scheme is valid until 31 December 2025, unless the reasons due to a termination by the Company's withdrawal (section 5.1), dismissal of the Company (section 5.2), or the Company's withdrawal (section 5.3) cause otherwise. In addition, the agreement that joins the Company in the scheme becomes void if the Energy Efficiency Agreement for Industries or the Action Plan attached to the agreement is terminated due to fundamental changes in the operating environment or conditions.

#### Other terms

The achievement of the indicative energy savings targets set in the Action Plan for the Energy-Intensive Industry for 2020 and 2025 are monitored and, if necessary, the management group of the Energy Efficiency Agreement for Industries prepares the proposals for necessary changes, if it seems unlikely that the set targets can be achieved.

The judicial nature of the Energy Efficiency Agreement for Industries is comparable to a target plan, and in addition to the fact that the Company will potentially be dismissed from the Energy Efficiency Agreement for Industries, the failure to meet the obligations of the Action Plan will not result in any legal consequences, other than that which is referred to in sections 5.1 and 5.2 of the Action Plan on state subsidies.

The parties to the Energy Efficiency Agreement for Industries and the companies which have joined in this Action Plan shall aim to act in such a manner that the targets, in accordance with the agreement, will be fulfilled.

	he targets, in accordance with the agreement, will be fulfilled.
Signature	
Place and date	Signature of the Company
Two copies of the filled and signed accession document Elinkeinoelämän keskusliitto ry/ Energiatehokkuussopimi To be filled in by the Confederation:	Name in block capitals  and the accession details are to be submitted to the following address us, P.O. Box 30, FI-00131 HELSINKI, FINLAND
Accession approved (date)	Accession number
Signature of the acceptor	Name in block capitals

<sup>&</sup>lt;sup>1</sup> The second copy of the accession document will be returned to the Company after approval.



# **Accession Details**

Company					
Postal address					
Postal code					
Town					
Website					
Business ID					
The Company's principal activity according to the Standard Industrial Classification TOL2008 <sup>1</sup> of Statistics Finland at the three-figure level:					
	<u> </u>				
	rge of the Energy Efficiency Agreement <sup>2</sup>				
Person in cha	rge of the Energy Efficiency Agreement <sup>2</sup>				
Person in cha	rge of the Energy Efficiency Agreement <sup>2</sup>				
Person in cha	rge of the Energy Efficiency Agreement <sup>2</sup>				
Person in cha	rge of the Energy Efficiency Agreement <sup>2</sup>				
Person in cha Name Job title Site <sup>3</sup>	rge of the Energy Efficiency Agreement <sup>2</sup>				
Person in cha Name Job title Site <sup>3</sup> Postal address <sup>3</sup>	rge of the Energy Efficiency Agreement <sup>2</sup>				
Person in cha Name Job title Site <sup>3</sup> Postal address <sup>3</sup> Postal code <sup>3</sup> Town <sup>3</sup>	rge of the Energy Efficiency Agreement <sup>2</sup>				
Person in cha  Name  Job title  Site <sup>3</sup> Postal address <sup>3</sup> Postal code <sup>3</sup>	rge of the Energy Efficiency Agreement <sup>2</sup>				

# 3

In general,	the Company	includes a	ll of	its	sites	in	Finland	in	the	Energy	Efficiency	Agreement	for
Industries.													

The total number of sites in this Action Plan is\_\_\_\_\_

The Company's sites, their persons in charge and the Company's principal activity (TOL 2008<sup>1</sup>) are specified in the table at the end of this appendix. The annual reporting in accordance with the agreement is to be made by operation.

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<sup>&</sup>lt;sup>1</sup> Standard Industrial Classification TOL2008 of Statistics Finland <a href="http://www.stat.fi/meta/luokitukset/toimiala/001-">http://www.stat.fi/meta/luokitukset/toimiala/001-</a> 2008/index.html

<sup>&</sup>lt;sup>2</sup> The person in charge of the agreement acts as a contact person in matters related to the implementation of this Action Plan, and also as the person in charge of the Company's sites, unless such persons are not specified separately.

<sup>&</sup>lt;sup>3</sup> Please leave this field empty, if the site details of the Company's Person in charge of the Energy Efficiency Agreement are the same as the corresponding details of the Company above.



4	Energy use included in the agreement <sup>4</sup> in	!
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In general, the Company includes all of its sites in Finland and their energy use in the agreement, as referred to in section 1.3 of the Action Plan.

	Purchased <sup>4</sup>		Sold <sup>4</sup>
Electricity		MWh	MWh
Heat		MWh	MWh
Fuels <sup>6, 7</sup>		MWh	MWh
Total		MWh	MWh

Total energy use included in the agreement \_\_\_\_\_\_MWh (purchased – sold)

# 5 Indicative energy savings targets for 2020 and 2025

The Company sets an indicative quantitative energy savings target (MWh) for the period 2017–2025.

The shared indicative energy savings target (MWh) of the Action Plan for the Energy-Intensive Industry for 2017–2025 is 7.5% in 2025 and the intermediate target is 4% in 2020, calculated from the target group's energy use<sup>8</sup>.

The indicative quantitative energy savings targets set by the Company for 2020 and 2025 reflect the above indicative energy savings targets set for the Action Plan for the Energy-Intensive Industry for the agreement period 2017–2025. The Company's energy use in the target years 2020 and 2025 is not required to be lower than the baseline included in the agreement (section 4).

The Company's indicative quantitative energy savings target (MWh) for 2020 and 2025 is specified in the table below, and its relative share (%) is calculated from the total energy use included in the agreement, presented in section 4.

#### Energy savings targets set for the agreement period 2017–2025:

Intermediate target for 2020	MWh <sup>9</sup>	% <sup>10</sup>
Overall target for 2025	MWh <sup>11</sup>	% <sup>12</sup>

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<sup>&</sup>lt;sup>4</sup> The energy use in total (electricity, heat and fuels), purchased and sold energy, of all sites is presented here.

<sup>&</sup>lt;sup>5</sup> The year of the energy data presented in the table. The data is the data that represents the Company's normal operation during the latest calendar year available at the time of accession.

For example, oil, natural gas, wood chips (Note! Heat generated by fuels is not included under "Heat"). Net heat contents published by Statistics Finland are used as the conversion factors for energy unit (publication from 2014: <a href="http://pxweb2.stat.fi/sahkoiset\_julkaisut/energia2014/html/suom0018.htm">http://pxweb2.stat.fi/sahkoiset\_julkaisut/energia2014/html/suom0018.htm</a>).

<sup>&</sup>lt;sup>7</sup> Purchased fuels includes also own fuels for own use and/or for sale which are generated in the process (from the process raw materials)

<sup>&</sup>lt;sup>8</sup> Electricity, heat and fuels

<sup>&</sup>lt;sup>9</sup> For example, if the total energy use (section 4) is 1,000,000 MWh and the company sets the same indicative target as is set for the entire Action Plan for 2020, the company's intermediate target for 2020 would be 40,000 MWh (4%).

<sup>&</sup>lt;sup>10</sup> The indicative target of the Action Plan for 2020 is 4%.

<sup>&</sup>lt;sup>11</sup> For example, if the total energy use (section 4) is 1,000,000 MWh and the company sets the same indicative target as is set for the entire Action Plan for 2025, the company's overall target for 2025 would be 75,000 MWh (7.5%).

<sup>&</sup>lt;sup>12</sup> The indicative target of the Action Plan for 2025 is 7.5%.



# 6 Annual reporting of the Energy Efficiency Agreements – energy data

We request authorisation for Motiva Ltd to annually hand over to Statistics Finland the energy data (electricity, heat and fuels) gathered for the annual reporting of the Energy Efficiency Agreement for Industries 2017–2025, to be used for the purpose of statistics. The authorisation makes it possible to use the gathered energy data in the energy statistics on industry produced by Statistics Finland and to improve the coverage of statistics. In addition, the purpose is to reduce the duplicated burden of information reporting placed on the companies.

The principles governing the processing and confidentiality of the data of Statistics Finland can be found in the Finnish Statistics Act.

http://www.finlex.fi/fi/laki/ajantasa/2004/20040280

#### **Authorisation**

We authorise Motiva Ltd to annually hand over to Statistics Finland the energy data (electricity, heat and fuels) gathered for the annual reporting of the Energy Efficiency Agreement, to be used by Statistics Finland in the production of statistics. The authorisation will be valid until the end of 2026, unless Motiva Oy<sup>13</sup> and the Energy Authority<sup>14</sup> are not separately notified in writing of the termination of the authorisation.

	Yes, we give authorisation
We do not authorise Motiva Ltd to hand o fuels) gathered for the annual reporting o	ver to Statistics Finland the energy data (electricity, heat and the Energy Efficiency Agreement.
	☐ We do not give authorisation
Signature	
Place and date	Company
Signature	Name in block capitals

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<sup>13</sup> seuranta-apu@motiva.fi

<sup>14</sup>kirjaamo@energiavirasto.fi



	Name of the site	TOL2008, 3 figures <sup>15</sup>
	Name and e-mail address of the person in charge of the site 16	
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If the number of sites/groups of sites exceeds 14, this page can be copied, as necessary.

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Principal activity according to the Standard Industrial Classification TOL2008 of Statistics Finland <a href="http://www.stat.fi/meta/luokitukset/toimiala/001-2008/index.html">http://www.stat.fi/meta/luokitukset/toimiala/001-2008/index.html</a>

If a site-specific person in charge is not appointed, the person in charge of the agreement, specified in section 2, also

<sup>&</sup>lt;sup>16</sup> If a site-specific person in charge is not appointed, the person in charge of the agreement, specified in section 2, also acts as the person in charge of the site in question.



# **Energy Efficiency Agreement for Industries**

# **Action Plan for the Energy-Intensive Industry**

With this Action Plan, the energy-intensive industry (hereinafter the Industry) shall implement the Energy Efficiency Agreement for Industries, which is an agreement on the promotion of energy efficiency in 2017–2025 between the Ministry of Employment and the Economy (hereinafter the Ministry), the Energy Authority, the Confederation of Finnish Industries EK (hereinafter the Confederation) and the industry associations.

The joint management group of the Ministry, the Energy Authority, the Confederation and the industry associations will monitor and steer the implementation of the Energy Efficiency Agreement for Industries and, when necessary, makes proposals on its development. The starting points and grounds for the agreement, and the tasks of the management group, are described in the Energy Efficiency Agreement for Industries signed by the above parties to the agreement.

This Action Plan presents the targets and obligations to which the company joining the Energy Efficiency Agreement for Industries (hereinafter the Company) is committed itself to, and the procedures for termination of the agreement, for dismissal of the Company, and for the Company's withdrawal, and any potential consequences. In addition, this Action Plan presents the actions by the Ministry, the Energy Authority and the Confederation in accordance with the agreement, and the relationship to the implementation of the Energy Efficiency Act in a large company.

# 1 Agreement period, target group and joining the agreement scheme

#### 1.1 Agreement period and agreement terms

The agreement period 2017–2025 of the Energy Efficiency Agreement for Industries is divided into two terms: term 2017–2020 (4 years) and term 2021–2025 (5 years), the total agreement period being 9 years.

# 1.2 Target group

In general, the Action Plan for the Energy-Intensive Industry of the Energy Efficiency Agreement for Industries is joined by the companies with one or more sites with an annual energy consumption of at least 100 GWh. <sup>1</sup>

#### 1.3 Joining the agreement

Joining the Energy Efficiency Agreement for Industries means that a company joins one or more Action Plans of the Energy Efficiency Agreement for Industries with a separate accession document.

In general, the Company includes all of its sites in Finland and their energy use in the Energy Efficiency Agreement for Industries.

To join the Action Plan for the Energy-Intensive Industry, the Company must submit an appropriately filled and signed accession document and the accession details attached to the document to the Confederation. The Company joins the Energy Efficiency Agreement for Industries once the Confederation has established that the signed accession document and the accession details are in due form and the Confederation has submitted a copy of the documents to Motiva Ltd to be entered into the participant register.

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<sup>&</sup>lt;sup>1</sup> In general, a company with one or more sites with an annual energy consumption of over 100 GWh, includes all of its sites in the Action Plan for the Energy-Intensive Industry, regardless of the energy consumption in a single site. However, such a company can include some of its sites in the Action Plan for the Medium-Sized Industry in its own branch, if necessary.



The procedures for a company to terminate its membership or for dismissing a company from the scheme and any potential consequences are described in section 5.

# 2 Targets of the Action Plan

#### 2.1 Target of the energy-intensive industry

The target is to include all energy-intensive industrial companies in Finland in the Energy Efficiency Agreement for Industries by the end of 2018.

The shared indicative energy savings target (GWh) of the Action Plan for 2017–2025 is 7.5% in 2025 and the intermediate target is 4% in 2020, calculated from the target group's energy use<sup>2</sup>.

# 2.2 Target of the Company

# Setting the target

On joining the Energy Efficiency Agreement for Industries (2017–2025), the Company sets an indicative energy savings target for the period 2017–2025 and an intermediate target for 2020. The Company's indicative energy savings targets reflect the above indicative energy savings targets set by the industry association for the agreement period 2017–2025 of the Action Plan for the Energy-Intensive Industry.

In general, the Company includes all of its energy use in the Energy Efficiency Agreement for Industries, as referred to in section 1.3. On joining the Action Plan, the Company presents an indicative energy savings target in its accession document as the amount of energy (MWh) in 2020 and 2025. These targets are calculated from the amount of energy that is included in the appropriate Action Plan and that represents normal operation during the latest calendar year available at the time of accession.

If the relative (%) improvement target set by the Company changes fundamentally from the original due to significant structural or ownership changes that have taken place during the validity of the agreement, the Company may adjust the savings target (MWh) for 2020 and 2025 to correspond with the new situation by notifying of the change and its reasons in connection with annual reporting into the monitoring system of the Energy Efficiency Agreement scheme.

# Monitoring the achievement of the energy savings target set by the Company

An action can be accepted for monitoring the achievement of the indicative energy savings target, if the action is implemented by the Company during the agreement period 2017–2025, if it is reported to the monitoring system of the Energy Efficiency Agreement scheme, if the energy conservation impact of the action is still valid during the year in question, and if the action concerns the energy use included in the specification of the Company's target.

In this Action Plan, energy conservation means the reduction of the targeted energy consumption from the current level achieved by active measures, compared to the amount of energy that would be consumed without active measures. Correspondingly, the reduction of future energy consumption achieved by active measures can be counted as energy conservation.<sup>3</sup> The amount of saved energy (kWh/a) is determined by measuring and/or by a calculation, in which case the consumption subject to the energy efficiency improve-

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<sup>&</sup>lt;sup>2</sup> Electricity, heat and fuels

<sup>&</sup>lt;sup>3</sup>For example: (i) building new energy-efficient capacity (new investment), in so far as it replaces existing outgoing capacity, (ii) building entirely new capacity, in so far as its level of energy-efficiency is better than normal, (iii) the procurement of a piece of equipment (for example, motors) that is higher than ecodesign level, and (iv) the utilisation of surplus energy in one's own use or on the factory site, in so far as it replaces the need for purchased energy.



ment measure is estimated before and after the implementation of the measure, whilst ensuring normalisation for external conditions that affect energy consumption.

The Company's energy use<sup>2</sup> in the target years 2020 and 2025 is not required to be lower than the baseline included in the agreement.

# 3 Implementation of the Action Plan

# 3.1 Obligations of the Confederation

In order to achieve the targets of the Action Plan, the Confederation shall

- set up a steering group or appoint another body, in which the implementation of the Action Plan is monitored and discussed at least once a year
- encourage and advise companies to join the Energy Efficiency Agreement for Industries, take part in the introduction of the agreement, and support its execution
- verify that the accession document signed by the Company is in due form, accept the Company as a
  participant of the Energy Efficiency Agreement for Industries by signing the approved accession
  document of the Company, and submit a signed copy of the document to Motiva Ltd to be entered
  into the participant register
- together with Motiva Ltd, monitor the implementation of the savings targets of the companies which have joined the Action Plan for the Energy-Intensive Industry of the Energy Efficiency Agreement for Industries
- participate, in co-operation with other parties to the Energy Efficiency Agreement for Industries, in the promotion of energy audit and analysis activities and the communication of the results and benefits of the energy management systems by providing information on, for example, concrete good examples
- participate in the implementation of the development and pilot projects in its own branch related to the execution of the agreement together with other parties to the agreement
- participate in the preparation of reporting and in the drawing up of the annual report on energyintensive industry and the annual summary report of the entire Energy Efficiency Agreement for Industries<sup>4</sup>
- participate in the development of the Energy Efficiency Agreement scheme together with the Ministry, industry associations, companies joining this agreement, the Energy Authority, and any other bodies participating in the implementation of the agreement scheme
- dismiss the Company, if the management group of the Energy Efficiency Agreement for Industries has so decided.

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<sup>&</sup>lt;sup>4</sup>The reports are summarised from the data reported annually by the companies.



#### 3.2 Obligations of the Ministry

In order to achieve the targets and taking into account the annual available appropriations, the Ministry shall

- support the energy audits and analyses on energy conservation by the companies, in accordance
  with the conditions for granting energy subsidy<sup>5</sup>. When determining the amount of subsidy, take into account as a positive factor the Company's commitment to long-term energy conservation and
  improvement of energy efficiency
- support investments related to energy conservation established in the energy audits and analyses
  of the Company or in similar studies, meeting the general terms and conditions of energy subsidy.
  Projects promoting the introduction of new technologies and procedures take priority. When determining the amount of subsidy, take into account as a positive factor the Company's commitment to long-term energy conservation and improvement of energy efficiency
- participate in the development of the Energy Efficiency Agreement scheme together with the Energy Authority, Confederation, industry associations, and any other bodies participating in the implementation of the agreement scheme, in so far as the tasks are not assigned by the Ministry to the Energy Authority.

# 3.3 Obligations of the Energy Authority

In order to achieve the targets and taking into account the annual available appropriations, the Energy Authority, under the guidance of the Ministry, shall

- participate in the implementation of the Energy Efficiency Agreement scheme with adequate resources
- participate in the development of the Energy Efficiency Agreement scheme together with the Ministry, Confederation, industry associations, and any other bodies participating in the implementation of the agreement scheme, in so far as the tasks are assigned by the Ministry to the Energy Authority
- monitor the implementation of the targets of the Energy Efficiency Agreement for Industries
- participate in the implementation of the development and pilot projects related to the execution of the agreement together with other parties to the agreement
- monitor the fulfilment of the agreement obligations of the companies, send the company a notification on the failure to meet the agreement obligations, and prepare a proposal to the management group for further actions, due to the company's failure to meet the agreement obligations, if necessary
- allocate resources for Motiva Ltd, so that Motiva can maintain the participant register, produce information required for monitoring the implementation of the targets and realisation of the impacts of the agreement, monitor the implementation of the Action Plans, support the communication of the agreement scheme and maintain the website, participate in the development of the Energy Efficiency Agreement scheme, maintain and develop the monitoring system of the agreement scheme, participate in the compiling of annual reports of the Action Plans, support the execution of the companies' agreement by, for example, producing communication and training material on good practices, and participate in the implementation of development and pilot projects.

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<sup>&</sup>lt;sup>5</sup> The mandatory energy audits for large companies, as referred to in section 6 of the Energy Efficiency Act (1429/2014), will not be subsidised.



# 3.4 Obligations of the Company

In its accession document, the Company appoints a company-specific person in charge of the agreement and the site-specific persons in charge. The company-specific person in charge of the agreement acts as a contact person in matters related to the implementation of this Action Plan, and also as the site-specific person in charge, unless such persons are not specified separately.

The Company commits itself to the continuous improvement of energy efficiency by introducing an Energy Efficiency System EES (appendix)<sup>6</sup> as follows:

- A company that has not participated in the Energy Efficiency Agreement for Industries in 2008–2016 incorporates the energy issues in the management system existing in the Company, in accordance with an Energy Efficiency System EES, or alternatively, in accordance with an Energy Efficiency System EES<sup>+</sup> or ISO 50001 energy management system, within 12 months of joining the Energy Efficiency Agreement.
- A company that has participated in the Energy Efficiency Agreement for Industries in 2008–2016 and therefore has already introduced an Energy Efficiency System EES continues using the said system or, alternatively, an EES<sup>+</sup> or ISO 50001 energy management system.
- A management review is carried out to ensure that the selected energy efficiency or energy management system is appropriately implemented. The company commits itself to using the system meeting the requirements<sup>7</sup> throughout the agreement period.

The Company commits itself to reporting by the end of February each year<sup>8</sup> on the previous year's energy use<sup>2,9</sup>, on the related efficiency measures, and on the realisation of any other activities related to the Action Plan by site into the monitoring system of the Energy Efficiency Agreement. In connection with the reporting, the Company has the opportunity to make development proposals on operations, equipment, systems or services concerning the improvement of energy efficiency, in order to find or refine new energy-efficient innovations.

In addition, the Company aims to introduce new energy-efficient technology whenever it is technically and economically possible, taking health, safety and environmental aspects into consideration. The Company also aims to improve the energy efficiency of transport by improving logistics and energy use in co-operation with companies providing these services. In addition, the Company aims to increase the use of renewable energy sources whenever it is technically and economically possible, taking health, safety and environmental aspects into consideration.

# 4 Steering group

The Confederation appoints a steering group to guide and monitor the implementation of the Action Plan for the Energy-Intensive Industry of the Energy Efficiency Agreement for Industries. Representatives of bodies and companies in the branch, who are important with respect to the implementation of this Action Plan, will be invited to the steering group.

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<sup>&</sup>lt;sup>6</sup> Instead of the Energy Efficiency System <u>EES</u>, the company can alternatively introduce an Energy Efficiency System <u>EES</u><sup>+</sup> or an ISO 50001 energy management system.

<sup>&</sup>lt;sup>7</sup>EES, EES<sup>+</sup> or ISO 50001

<sup>&</sup>lt;sup>8</sup> On joining the Energy Efficiency Agreement for Industries, the Company commits itself to reporting the corresponding data for 2025 in 2026. If the Company withdraws from the agreement on 31 December 2020, it commits itself to reporting the data for 2020 in 2021.

<sup>&</sup>lt;sup>9</sup> If the Company provides the operator of the monitoring system of the Energy Efficiency Agreement scheme (Motiva Ltd) with the necessary authorisation when joining the scheme, the reported energy use data can be transferred from the monitoring system to Statistics Finland as confidential data for the purpose of energy statistics.



The steering group monitors the progress of the implementation of the Action Plan in relation to the set targets and the implementation of other obligations related to the agreement scheme, and performs actions and makes development proposals related to the agreement scheme and its communication.

# 5 Termination of the agreement, dismissal from the agreement, potential consequences and withdrawal from the agreement

# 5.1 Termination by the Company's withdrawal from the agreement and potential consequences

The Company may withdraw from the Energy Efficiency Agreement for Industries by notifying the Energy Authority<sup>10</sup> and the Confederation thereof in writing. In its notice of withdrawal, the Company commits itself to reporting any energy subsidies received during the agreement period on the basis of the Energy Efficiency Agreement.

The energy subsidies granted on the basis of this agreement and received by the Company withdrawing from the agreement may be collected, according to the conditions on the recovery recorded in the subsidy decision in question. The authority that has granted the subsidy will decide on the collection separately for each case.

#### 5.2 Dismissal of the Company from the agreement and potential consequences

A company may be dismissed from the Energy Efficiency Agreement for Industries, if the Company does not fulfil the obligations it has undertaken on joining the agreement. The grounds for dismissal may be repeated failures to implement the Company's obligations in accordance with the agreement or to report the required information into the monitoring system of the Energy Efficiency Agreement scheme.

Upon detecting a failure to fulfil an agreement obligation, the Energy Authority will send the Company a notification. If the Company does not correct its operations appropriately within the prescribed time limit, the Energy Authority will prepare a proposal for further actions to the management group of the Energy Efficiency Agreement for Industries. The decision on the dismissal of the Company from the Energy Efficiency Agreement for Industries will always be made by the management group.

The energy subsidies granted on the basis of this agreement and received by the Company dismissed from the agreement may be collected, according to the conditions on the recovery recorded in the subsidy decision in question. The authority that has granted the subsidy will decide on the collection separately for each case.

# 5.3 Withdrawal of the Company from the Energy Efficiency Agreement for Industries on 31 December 2020

If the Company submits an appropriately filled accession document for the Energy Efficiency Agreement for Industries by 31 December 2018, the Company may withdraw from the agreement at the end of the first agreement term on 31 December 2020 without being subjected to the consequences related to the energy subsidies, described in sections 5.1 and 5.2<sup>8</sup>. The Company must notify the Energy Authority<sup>10</sup> and the Confederation in writing of the withdrawal by the end of 2020.

The withdrawal procedure described here does not apply to the companies that submit the accession document on 1 January 2019 or later.

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<sup>&</sup>lt;sup>10</sup>kirjaamo@energiavirasto.fi



# Relationship to the implementation of the Energy Efficiency Act in a large company<sup>11</sup>

The Finnish Energy Efficiency Act (1429/2014) obligates the large companies to carry out an energy audit in every four years. A company is deemed to meet the requirements for the mandatory energy audit, if the company has joined an Energy Efficiency Agreement and has introduced an Energy Efficiency System EES<sup>+</sup>. The EES<sup>+</sup> does not need to be certified. In such a case, the Energy Authority supervises the implementation of the EES<sup>+</sup> in the company separately.

# **Appendix to the Action Plan:**

**Energy Efficiency System EES** 

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 $<sup>^{11}\!\</sup>text{A}$  large company is specified as (Commission Recommendation 2003/361/EC) a company or group that

<sup>·</sup> employs more than 250 persons or

<sup>•</sup> has an annual turnover of over EUR 50 million and an annual balance sheet total of over EUR 43 million. When considering the limit values specified above, the ownership of an individual company must also be taken into account, even if the company would not exceed the limit values <a href="https://www.energiavirasto.fi/suurten-yritysten-pakolliset-katselmukset">https://www.energiavirasto.fi/suurten-yritysten-pakolliset-katselmukset</a>.

# **Energy Efficiency System (EES)**

4 December 2007, Version 1

Appendix to the Action Plan for the Energy-Intensive Industry and the Action Plan for Energy Production included in the Energy Efficiency Agreement in Industries



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# Introduction

This document sets out the minimum requirements of the Energy Efficiency System, designed for continuous improvement of energy efficiency of companies that have signed up to the Energy Efficiency Agreement in Industries, and made a commitment to implement the Action Plan for the Energy-Intensive Industry or the Action Plan for Energy Production. The text also contains descriptions of recommended measures complementing the system, marked in the text in *italics*.

The Energy Efficiency System EES may be integrated in the company's ISO 14001 system or other management system used by the company, or it may be applied as a separate system to suit the needs of the company.

The paragraph numbering of this text complies with the ISO 14001 standard (2nd edition, published 29.11.2004).

# Energy Efficiency System As Tool For Continuous Improvement Of Energy Efficiency

The Energy Efficiency System EES helps companies create a systematic procedure in order to realise the principle of continuous improvement of energy efficiency, as well as to reduce energy consumption and costs.

Energy efficiency is a part of a company's production efficiency and competitiveness. Energy management consists of:

- Recognition of the fundamental effects related to energy (costs, environment, dimensioning)
- Setting of measurable targets
- Definition of organisational responsibilities
- Definition and implementation of measures derived from the targets
- Monitoring methods for consumption and the measures taken
- Review of targets and deciding on further measures.

With respect to the company's operation, continuous improvement of energy efficiency requires:

- Knowledge and monitoring of own energy usage
- Understanding of own energy-saving potential
- Defining and implementation of energy-saving measures that are viable in technological and economic terms
- Consideration of energy efficiency in standard procedures, investments and procurement
- Knowledge of different energy supply options
- A good energy supply strategy and its implementation.

The Energy Efficiency System may be described with the help of a 5-stage circle (Fig. 1):

- Energy policy: expressing the company's willingness to commit to agreed energy efficiency targets. Energy issues may be integrated in the company management system, making a separate energy policy unnecessary
- Planning: charting of company energy usage, setting of targets and agreeing on actions and methods in order to achieve targets and goals in accordance with the (energy) policy
- Implementation and execution: execution of efficiency measures; organisation, training and briefing of personnel.
- Surveillance and remedial action: goal-directed monitoring of consumption, benchmarking, self-assessment of energy efficiency

Management review: evaluation of functionality of the system, realisation of set targets, and setting of new targets

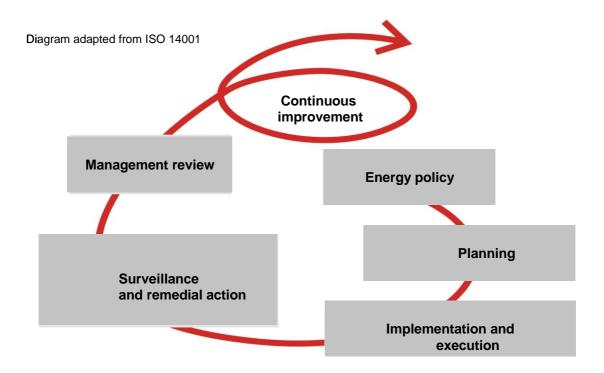


Figure 1. Application of the principle of continuous improvement in the Energy Efficiency System

# 3 Terms and definitions

The following terms and definitions are used in this document:

#### 3.1 **Deviation**

Non-fulfilment of minimum requirements set out in this document.

# 3.2 Significant energy aspect

Activity related to energy production and consumption with a significant impact on a company's total energy consumption.

N.B.: an aspect related to energy production or consumption is significant also when it

- improves energy efficiency
- increases use of renewable energy sources
- increases integration of energy management with surrounding society.

# 3.3 Energy

Energy means electricity, heating and fuels.

# 3.4 Energy usage

Energy usage means itemised energy consumption.

# 3.5 Energy aspect

All factors that are significant in terms of energy consumption and production, e.g. technology, operation and conduct of the organisation.

# 3.6 Energy Efficiency System

Part of company management system, containing organisational structure, planning, responsibilities, procedures, processes and resources concerning energy issues, to develop, adopt, achieve targets, review and maintain e.g. company environmental policy in relation to energy issues or a separate energy policy drawn up by the company

# 3.7 Goals and targets

A goal is a general, often long-term target for improving energy efficiency and implementing energy policy.

A target is a detailed and, if possible, quantifiable performance requirement based on company energy policy, set in order to achieve goals and to continuously improve energy efficiency.

# 3.8 Energy policy

Statement of intent by company management to improve the level of energy efficiency. A separate energy policy is not necessary if the company's commitment to continuous improvement of energy efficiency is evident e.g. in the group environmental policy, values or other guiding principles.

# 3.9 **Preventive action**

An action to prevent a potential deviation or development of other undesirable situation.

# 3.10 Remedial action

An action to remove the cause of the deviation or other undesirable situation.

# 3.11 Energy-saving plan

A scheduled plan drawn up by the company on actions to implement, evaluate and monitor continuous improvement of energy saving and energy efficiency.

# 4 Minimum Requirements Of The Energy Efficiency System

#### 4.1 General

The company builds up and maintains the Energy Efficiency System in the manner set out in the following paragraphs. The company also defines the boundaries for its Energy Efficiency System.

Below, the minimum requirements are written in standard font and the recommendations in italics.

# 4.2 Energy policy

The company management defines the energy policy e.g. as part of an existing management system, or if this is not feasible, as a separate policy, maintains it and ensures that

- a) energy issues are included in company policy to the extent that is expedient taking into consideration the company operation, size and impacts
- b) the energy policy contains a commitment to continuous improvement of energy efficiency
- c) the company complies with legislation as well as commitments related to company energy production and usage
- d) company personnel are familiar with the company energy policy
- e) frameworks are created for monitoring energy usage and energy efficiency targets are defined.

#### **Recommendation:**

• the energy policy is public.

#### 4.3 Planning

# 4.3.1 Analysis and identification of aspects related to energy production and usage

The company creates and maintains procedures to analyse energy production and usage, or employs audit and analysis guidelines in accordance with MEAE (The Ministry of Economic Affairs and Employment) directions, to

- produce information on energy consumption based on measurement or calculations
- identify the most important factors related to company energy production and usage

- specify the measures to be taken to improve energy efficiency during an agreed period
- identify the possibilities of improving energy efficiency in the long term. The information is updated regularly.

# 4.3.2 Statutory and other requirements

The company creates a procedure to recognise the legislation related to energy efficiency, as well as other commitments and requirements.

# 4.3.3 Goals and targets

- a) The company draws up and maintains documented goals and detailed and scheduled energy efficiency targets, which as far as possible are measurable, and maintains an efficiency-improvement plan for energy usage and production, to be updated annually. When the targets are set up and updated, the following must be taken into account:
  - Statutory and other requirements
  - Considerations related to energy production and usage that are significant from the corporate point of view
  - Possibilities opened up by new energy-efficient technology
  - Economic, business and other operational considerations
  - Data from previous years and the measures taken to affect energy efficiency
- b) The company must ensure that the goals and targets support the formulated energy policy.

# 4.4 Implementation of the system and action

# 4.4.1 Organisation and responsibility

The senior management of the company specifies the personnel responsible for energy issues, their roles, duties, responsibilities and authority. This information is documented.

The company management creates the conditions for implementation and maintenance of the Energy Efficiency System, meaning that

- personnel must have sufficient training and resources to discharge their duties in an energy-efficient manner
- they have adequate technical and financial resources at their disposal.

#### 4.4.2 Training, awareness and competence

- The company takes particular care of the know-how and competence of persons whose sphere of responsibility includes functions with a significant impact on the energy efficiency of the company
- b) The training includes
  - requirements of the Energy Efficiency System, to the extent they are related to the person's duties and sphere of influence
  - company energy policy and energy efficiency targets

#### 4.4.3 Communications

The company specifies how energy issues are communicated internally and externally.

#### 4.4.4 Documentation of Energy Efficiency System

Documentation of the Energy Efficiency System must include the essential parts of the system (policy, goals and targets, extent of Energy Efficiency System) and information on their interfaces with other documents (e.g. environmental management system, if energy issues are not included in it).

#### 4.4.5 Management of documentation

- a) The procedures for management of documents and files are outlined in the company operational directions (the kind of information collected, where and how, how long, who is responsible, distribution)
- b) Documents originating externally are also specified and their management procedures described in the company operational directions
- c) Essential documents related to the System are stored in an appropriate and adequate manner and in a comprehensible and easily recoverable form
- d) Essential documents related to the Energy Efficiency System are reviewed at agreed intervals, updated when necessary, and approved.

#### 4.4.6 Direction of the activity

- a) Energy efficiency is considered in decisions concerning investments and production development
- Significant factors related to energy consumption are recognised in purchasing and use of equipment and systems (targets related to energy consumption are set particularly for processes and equipment that impact on the company's total energy usage)
- c) Parties important in terms of energy efficiency (e.g. other companies providing services to the company) are informed about the company's energy efficiency targets and requirements.

#### 4.4.7 Preparedness and action in emergencies

Security of energy supply or operation of plants under exceptional circumstances are not within the remit of this Energy Efficiency System.

#### 4.5 Surveillance and remedial action

#### 4.5.1 Surveillance and measurement

- a) The energy consumption of functions central in terms of energy production and usage are measured or calculated, analysed, documented and reported regularly. The results may be compared with e.g. reference data available within the sector or other information.
- b) Definition of principal measuring devices, to be regularly serviced and calibrated. Documentation of actions
- c) Appointment of persons responsible for the functions.

#### 4.5.2 Assessment of compliance with requirements

The company must define a procedure to be used to assess compliance with the requirements of the Energy Efficiency Agreement, as well as the applicable statutory obligations and other commitments.

# 4.5.3 Deviations, remedial and preventive measures

The company must define a procedure to be used to assess deviations (policy, goals, agreed procedures and targets or statutory requirements), to implement remedial actions and to monitor their effectiveness:

- a) A person responsible for the purpose is appointed and given the authority to investigate deviations and to initiate remedial and preventive measures. All remedial or preventive measures must be appropriate in relation to the identified problem, and they must have an impact on energy usage.
- b) The changes are documented and disseminated in the manner specified by the company.

#### 4.5.4 **Data management**

Data related to energy production, usage and maintenance of other aspects of the Energy Efficiency System are identified, stored at least for the duration of the agreement, and superfluous data removed.

Data to be maintained are, for example:

- a) Energy usage data per production line by energy form, such as electricity, heating and fuels.
- b) Data describing efficiency of energy usage, such as monitoring of normal consumptions or of other indicators specific to the sector
- c) Own energy production

It should be ensured that the files are appropriate and identifiable and that they can be linked to the correct function, product or service.

#### 4.5.5 Internal auditing

At regular intervals, but at least once a year, the company organises internal audits of energy issues (or, if the system is integrated in another management system, energy issues should be reviewed at the same time). The purpose of internal audits is to assess the implementation of continuous improvement of energy efficiency and to provide information for company management on attainment of the goals and targets.

The company draws up an auditing schedule, defining

- a) extent, criteria and methods of the audits
- b) how often they are carried out
- c) persons responsible for the auditing
- d) content of the report and method of reporting to management and other parties.

The auditing assesses

- a) whether the Energy Efficiency System is appropriate for the management of energy issues, what updates are necessary
- b) whether the Energy Efficiency System is implemented and maintained in the agreed manner.

# 4.6 Management review

The management review focuses on the possible need to alter the energy policy, targets and other elements of the Energy Efficiency System, should there be need for such changes on the basis of the information obtained from the Energy Efficiency System audits, due to changed circumstances or commitment to continuous improvement.

In conjunction with the management review at least once a year

- a) an assessment is made regarding compliance with the requirements of the Energy Efficiency Agreement, as well as the applicable statutory obligations and other commitments.
- an assessment is made as to how the agreed principles and decisions have been implemented in practice, and ongoing (development) programmes are reviewed
- an assessment is made as to the appropriateness of the Energy Efficiency
   System and its results in relation to the targets set
- d) targets are set for the next period
- e) it is ensured that the necessary information is collected for evaluation of the Energy Efficiency System

The management reviews are documented.