



TÜVRheinland[®]
Precisely Right.

CN 01 407 1624109

Audit Report as per

TR Cert - 50001:2011

for

POLIFOAM Műanyagfeldolgozó Kft.

1097 Budapest Táblás u. 32.

Client	Standard(s)	Certification Number(s)	Audit Type
POLIFOAM Műanyagfeldolgozó Kft.	ISO 50001:2011	CN 01 407 1624109	CA2

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Audit Leader : Marta Sinko Barthane

Audit Team : Zsolt Zsirka

Management System Representative : Kornél Fejes

Audit Date : 13.12.2016

Audit result

Management system effectiveness was verified on site by means of random sampling by an appropriately selected auditor. This applies in particular to the compliance of workflows with standard requirements and the descriptions in management system documentation. The special features of the organization's business activities, the applicable statutory and regulatory requirements and the requirements set forth in other generally applicable documents were also taken into account. This was done by means of a sampling approach, by conducting interviews and reviewing the appropriate documentation. Audit findings and recommendations regarding opportunities for improvement have been set forth in Sections 4 of this report.

<input checked="" type="checkbox"/>	A stage 1 audit was performed and the organization found ready for certification. Identified weaknesses, if any, have been eliminated and the respective corrective action verified.
<input checked="" type="checkbox"/>	The current audit revealed the following nonconformities: Standard(s): ISO 50001 No. of nonconformity: no was
<input checked="" type="checkbox"/>	The organization has established and maintains an effective system to ensure compliance with its policy and objectives. The audit team confirms in line with the audit targets that the organization's management system complies with, adequately maintains and implements the

The auditor therefore recommends :

<input checked="" type="checkbox"/>	Award of the new certificates.
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Scope

Description of the organization

POLIFOAM Kft. is a leading polyolefin bun foam producer. For almost 30 years, Polifoam has been active in the Hungarian market. In 1984, it was founded as the first Hungarian-Japanese joint venture. Initially the company concentrated on the production of special foam products for the construction industry. Today the Budapest-located company Polifoam Műanyagfeldolgozó Kft., has been part of the global Trocellen Group, produces foam in a wide range of qualities, providing finished products with a high added value. Polifoam has 12 357 square metre production hall and storage.

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The foams produced by Polifom Kft. has a chemically cross-linked closed cell batch foam with a superior superfine cell structure.

These foams have very good physical properties and are converted for a wide range of industries including the automotive, acoustic, building and construction, sports and leisure industries.

65% of the product is sold on the sport market, 20% of the products sold on building trade, 15% of the product goes to automotive industry.

96% of the company's products are exported to 35 countries. The most significant destinations were France and Germany.

The main steps of the technology:

mix of the components and homogenization,

the chemically cross linked Polyethylene foam is produced on 5 production lines.

Production line consist of extrusion, expansion in the oven and reeling of the foam tape.

Further operations: laminating with textil and aluminium foil.

The foam tape is cut to different size and form according to customer requirements.

The energy baseline was defined as average of 2013-2015 years.

Energy consumption / 2015 year

natural gas: 14 484 929 kWh /2015

electric energy: 4 959 082 kWh /2015

84,2% of the total electric energy consumption belongs to the technology

13,3% of the total electric energy consumption belongs to the lighting

85,6% of the total natural gas consumption belongs to the technology

13,9% of the total natural gas consumption belongs to the building heating

The Polifoam operates different management systems, like these ISO 9001:2008, ISO 14001:2004.

Scope of certification

Scope of certification: (per standard):	manufacturing, converting and sales of polyethylene foams.
ISO 9001 standard requirements to be excluded from the scope:	-
Reasons for exclusions:	-

The following sites and their scopes are included in the scope of certification:

Site No. (CN ext.)	Sites included in cert. Name/address of site	No. of emp.	Scope and processes	Standard(s)	Audited
1	Central office: H - 1097 Budapest, Táblás u. 32.	150	manufacturing, converting and sales of polyethylene foams.	ISO 50001:2011	<input checked="" type="checkbox"/>

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Changes in the management system / Contract review

No major changes have been made to the management system and the management system documentation since the last audit. The order details which form the basis of the audit (including number of employees, scope and sites) reflect the actual situation in the organization.

Audit findings

The audit findings related to the audited standards are listed in the Annexes to this report (see. Annex ISO 50001:2011).

All information gained during the audit will be treated with strict confidentiality by the auditor and the certification body. In view of the sampling approach applied to the audit, weaknesses and nonconformities may still exist which have not been identified during the audit.

No.	Unit/Department Site	Positive findings
1	management	The objectives has been documented and communicated. <i>A célokat dokumentálták és kommunikálták.</i>
2	management	The management is committed to the reduction of energy consumption. <i>A vezetés elkötelezett az energia fogyasztás csökkentése mellett.</i>
3	general	The company has well organised process to review energy consumption and efficiency. <i>Jól szervezett folyamat az energia fogyasztás és hatékonyság figyelésére.</i>

The following recommendations and opportunities for improvement provided by the auditor are intended to contribute to the continuous improvement of the management system.

No.	Unit/Department Site	Recommendations and opportunities for improvement
1	maintenance	It is suggested to complete the maintenance plan (2017) with the control of electro motors, infiltration of the compressed air and the overheating. (4.6.1.) <i>A 2017. évi karbantartási tervet javasolt kiegészíteni a elektromos motorok, sűrített levegő hálózat és a túlmelegedés ellenőrzés vizsgálatával.</i>
2	energy team	It is suggested to collect the data of the measurement equipments into one record (identification, method of the reliability control, etc.) (4.6.1.) <i>A mérőórák adatait, az ellenőrzés módját javasolt táblázatban összefoglalni.</i>
3	energy team	It is suggested to handle the documents of the management systems (ISO 9001, 14001, 50001) on the same way. (4.5.4.) <i>Az irányítási rendszerek dokumentumait (ISO 9001, 14001, 50001) javasolt egységesen kezelni.</i>
4	energy team	The data of the energy plan are in different documents. It is suggested to collect the informations into one document. (4.6.1.) <i>Az energiaterv adatai különböző dokumentumban találhatóak. Javasolt a szükséges információkat egy dokumentumba összegyűjteni.</i>

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5	energy team	It is suggested to complet the energy baseline with the consumption of the cars. (4.4.4.) <i>Az alapállapot meghatározásba a gépjárművek energia fogyasztását is javasolt felvenni.</i>
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Dates

Due Date for the next audit 13.12.2017

Agreed date for the next audit 13.12.2017

13.12.2016



Marta Sinko Barthane

Date

Audit Leader / Auditor(s)

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Annex ISO 50001:2011

Item	Audit result
Policy/objectives	<p>The energy policy established by top management was communicated and implemented in the organization at last on 01.09.2016. It is suitable and includes the commitment to continual improvement and compliance with the applicable energy laws, regulations and requirements. It provides the framework for establishing and reviewing energy objectives. The organization has implemented and maintains a program for realizing the energy objectives and targets.</p> <p>Key energy objectives are:</p> <ul style="list-style-type: none"> • electric energy consumption/ EnPI 1,5130 kWh/ton foam • natural gas consumption / EnPI 4,2433 kWh/ton foam • Improve the monitoring system installation of the additional meters into the electric energy network and natural gas pipeline • lighting optimization of the public rooms (motion detectors) <p>The energy policy is documented, implemented and accessible to the public.</p>
Energy aspects and their changes since the last audit	<p>Key energy aspects are identified and their significance and impact on products as well as services have been reviewed and updated at regular intervals (energy review, energy baseline latest issue from 31.12.2015)</p> <p>Key energy aspects include :</p> <p>Energy consumption / 2015 year natural gas: 14 484 929 kWh /2015 electric energy: 4 959 082 kWh /2015</p> <p>Appropriate energy performance indicators have been established. These are :</p> <p>electric energy consumption / kWh/ton foam natural gas consumption / kWh/ton foam</p> <p>The EnPI-s has been monitored on monthly bases.</p>
Identification and monitoring of legal and other requirements	<p>The organization identifies the relevant energy related legal and other requirements at regular intervals and makes them accessible to all relevant functions.</p> <p>The following requirements are mainly relevant for the organization (by site, where appropriate):</p> <p>122/2015(V.269 Gov. reg energy efficiency 2015. évi LVII. law of the energy efficiency 76/ 2006 8V.24) TNM decree (building energetics) 2012/27/EU energy efficiency 157/2005. (VIII. 15.) Gov. reg (building heating) 176/2008 (VI.30) Gov. reg (building energy certification) 19/2009. (I. 30.) Gov. reg a atural gas supply 273/2007. (X. 19.) Gov. reg. electric energy, etc</p>
Communication, responsibility and	<p>The management system-related requirements regarding competence, training and awareness of the people working for or on behalf of the organization as well as the</p>

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authority	roles, responsibilities and authorities are defined, documented and communicated. The organization decided whether to communicate externally about its energy policy, energy management system and energy performance and documented its decision.
Operational control, monitoring and measurement	To comply with the energy policy and the energy objectives and targets, the organization identifies all energy-relevant operations and activities. Operations are planned and monitored. The organization maintains a procedure for analysing and evaluating the impact of design (processes, products, equipment, etc.) and of procurement activities on organisations energy performance, use and consumption. Compliance with applicable legal and other energy requirements affecting organisations energy use and consumption is evaluated at regular intervals. The ongoing control and maintenance of documents and records regarding the energy management system is appropriate.
Internal audit and management review	The organization measures MS implementation, maintenance and effectiveness by means of annually scheduled system audits. The organization reliably carries out these audits. The internal audits were performed in accordance with the requirements in the time 14.11.2016 Top management reviews the organization's energy management system at regular intervals and in line with the requirements to ensure its continuous suitability, adequacy and effectiveness. The management review of 25.11.2016 were carried out in accordance with the requirements and was effective.
Use of certificate and logo	--

Chapter of standard	4.1	4.2.1	4.2.2	4.3	4.4.1	4.4.2	4.4.3	4.4.4	4.4.5
Rating*)	1	1	1	1	1	1	1	2	1
No. of nonconformity	-	-	-	-	-	-	-	-	-
Chapter of standard	4.4.6	4.5.1	4.5.2	4.5.3	4.5.4	4.5.5	4.5.6	4.5.7	
Rating*)	1	1	1	1	2	1	1	1	
No. of nonconformity	-	-	-	-	-	-	-	-	
Chapter of standard	4.6.1	4.6.2	4.6.3	4.6.4	4.6.5	4.7.1	4.7.2	4.7.3	
Rating*)	2	1	1	1	1	1	1	1	
No. of nonconformity	-	-	-	-	-	-	-	-	

***Rating:** 1 = conforming , 2 = conforming but opportunities for improvement
 3 = failed/nonconformity (see nonconformity report), 4 = not applicable, 5 = not audited in this audit