

Please replace with:
2 – for classrooms
3 – for sport halls
4 – for canteens

D.T3.X.2 ON-SITE ENERGY AUDITS - CLASSROOMS/SPORT HALLS/ CANTEENS

Country

Version 1
08 2018





I. Building #1

1. Summary of the energy performance of the building and suggested improvement options

1.1. Summary of the existing state of the building

Please shortly summarise the existing state of the building, focusing on energy performance of the building.



2. Introduction

2.1. General information of audited organisation

4-5 sentences about the school (as an organisation).

2.2. Energy auditor(s)

Name	
Phone	
e-mail	
Accreditations and certificates	

Please add as many tables as needed

2.3. Context of the energy audit - scope, aim and thoroughness, timeframe and boundaries

- *needs and expectations of school managers*
- *scope of the audit (e.g. audit of the whole building, building unit, technical building system),*
- *Aim of the audit (e.g. to check compliance with energy performance requirements, energy certification, tailored energy audit, energy performance inspection etc.),*
- *degree of thoroughness and type of assessment required (e.g. calculated design, calculated as built, measured actual, measured standards / corrected for climate and use),*
- *and any other important boundary that would affect auditor's work.*

2.4. Description of audited object

5-10 sentences about the current state of the building (age, materials used, energy sources, technical equipment etc.)

2.5. Energy audit methodology

2.5.1. Relevant standards

List of standards used during the audit

2.5.2. Regulations

List of binding national regulations related to the energy audit

2.5.3. Information on data collection

Types of data collected, on-site visit date, sources of data etc.



3. General building data

3.1. Location

Building name	
Street, number, city and postcode	
Province/Region	
Country	
Longitude [DD.dd°] ¹	
Latitude [DD.dd°] ²	
Height above the see level [m] ³	
Year of construction	
Useful area - the whole building [m ²]	<i>Total useful area of the building</i>
Useful area - audited part [m ²]	<i>Useful area of an audited part of a school.</i>

3.2. Energy and water consumption

Please provide in the following sections data on historical energy consumption. Please clearly indicate the period considered.

3.2.1. Electricity Consumption and Mix

3.2.2. Gas/Oil/solid Fuel Consumption

3.2.3. Renewable Energy Sources

3.2.4. Other Generation

3.2.5. Final Energy Consumption and CO₂ Emissions (according to the national emission factors)

3.3. Building exploitation, maintenance and management

If it's relevant for further analyses, please provide here information about specificity of the building exploitation, e.g. occupation hours, months of exploitation, building technical equipment set-up.

¹ Suggested free tool to find exact coordinated of a place: <http://www.mapcoordinates.net/en>

² Suggested free tool to find exact coordinated of a place: <http://www.mapcoordinates.net/en>

³ Suggested free tool to find exact coordinated of a place: <http://www.mapcoordinates.net/en>



4. Existing state of building energy systems

Please provide in the following sections all data that will be necessary to evaluate energy savings suggestions, that will be presented in the next deliverable (D3.X.3 Energy simulations and technical improvement options). You are not obliged to put in these report any improvement options.

4.1. Heating system

4.2. Water and sewage system

4.3. HVAC

4.4. Cooling system

4.5. Electric system

4.6. Building envelope

4.7. Renewable energy sources

4.8. Lightning system

4.9. Other systems



5. Other information

Please add here other relevant information, not included in the previous sections.

6. Attachments

Please add here any attachment you consider relevant (e.g. energy bills, building schemes, photos)



II. Building #2

1. Summary of the energy performance of the building and suggested improvement options

1.1. Summary of the existing state of the building

Please shortly summarise the existing state of the building, focusing on energy performance of the building.



2. Introduction

2.1. General information of audited organisation

4-5 sentences about the school (as an organisation).

2.2. Energy auditor(s)

Name	
Phone	
e-mail	
Accreditations and certificates	

Please add as many tables as needed

2.3. Context of the energy audit - scope, aim and thoroughness, timeframe and boundaries

- *needs and expectations of school managers*
- *scope of the audit (e.g. audit of the whole building, building unit, technical building system),*
- *Aim of the audit (e.g. to check compliance with energy performance requirements, energy certification, tailored energy audit, energy performance inspection etc.),*
- *degree of thoroughness and type of assessment required (e.g. calculated design, calculated as built, measured actual, measured standards / corrected for climate and use),*
- *and any other important boundary that would affect auditor's work.*

2.4. Description of audited object

5-10 sentences about the current state of the building (age, materials used, energy sources, technical equipment etc.)

2.5. Energy audit methodology

2.5.1. Relevant standards

List of standards used during the audit

2.5.2. Regulations

List of binding national regulations related to the energy audit

2.5.3. Information on data collection

Types of data collected, on-site visit date, sources of data etc.



3. General building data

3.1. Location

Building name	
Street, number, city and postcode	
Province/Region	
Country	
Longitude [DD.dd°] ⁴	
Latitude [DD.dd°] ⁵	
Height above the see level [m] ⁶	
Year of construction	
Useful area - the whole building [m ²]	<i>Total useful area of the building</i>
Useful area - audited part [m ²]	<i>Useful area of an audited part of a school.</i>

3.2. Energy and water consumption

Please provide in the following sections data on historical energy consumption. Please clearly indicate the period considered.

3.2.1. Electricity Consumption and Mix

3.2.2. Gas/Oil/solid Fuel Consumption

3.2.3. Renewable Energy Sources

3.2.4. Other Generation

3.2.5. Final Energy Consumption and CO₂ Emissions (according to the national emission factors)

3.3. Building exploitation, maintenance and management

If it's relevant for further analyses, please provide here information about specificity of the building exploitation, e.g. occupation hours, months of exploitation, building technical equipment set-up.

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4. Existing state of building energy systems

Please provide in the following sections all data that will be necessary to evaluate energy savings suggestions, that will be presented in the next deliverable (D3.X.3 Energy simulations and technical improvement options). You are not obliged to put in these report any improvement options.

- 4.1. Heating system
- 4.2. Water and sewage system
- 4.3. HVAC
- 4.4. Cooling system
- 4.5. Electric system
- 4.6. Building envelope
- 4.7. Renewable energy sources
- 4.8. Lightning system
- 4.9. Other systems



5. Other information

Please add here other relevant information, not included in the previous sections.

6. Attachments

Please add here any attachment you consider relevant (e.g. energy bills, building schemes, photos)



III. Building #3

1. Summary of the energy performance of the building and suggested improvement options

1.1. Summary of the existing state of the building

Please shortly summarise the existing state of the building, focusing on energy performance of the building.



2. Introduction

2.1. General information of audited organisation

4-5 sentences about the school (as an organisation).

2.2. Energy auditor(s)

Name	
Phone	
e-mail	
Accreditations and certificates	

Please add as many tables as needed

2.3. Context of the energy audit - scope, aim and thoroughness, timeframe and boundaries

- *needs and expectations of school managers*
- *scope of the audit (e.g. audit of the whole building, building unit, technical building system),*
- *Aim of the audit (e.g. to check compliance with energy performance requirements, energy certification, tailored energy audit, energy performance inspection etc.),*
- *degree of thoroughness and type of assessment required (e.g. calculated design, calculated as built, measured actual, measured standards / corrected for climate and use),*
- *and any other important boundary that would affect auditor's work.*

2.4. Description of audited object

5-10 sentences about the current state of the building (age, materials used, energy sources, technical equipment etc.)

2.5. Energy audit methodology

2.5.1. Relevant standards

List of standards used during the audit

2.5.2. Regulations

List of binding national regulations related to the energy audit

2.5.3. Information on data collection

Types of data collected, on-site visit date, sources of data etc.



3. General building data

3.1. Location

Building name	
Street, number, city and postcode	
Province/Region	
Country	
Longitude [DD.dd°] ⁷	
Latitude [DD.dd°] ⁸	
Height above the see level [m] ⁹	
Year of construction	
Useful area - the whole building [m ²]	<i>Total useful area of the building</i>
Useful area - audited part [m ²]	<i>Useful area of an audited part of a school.</i>

3.2. Energy and water consumption

Please provide in the following sections data on historical energy consumption. Please clearly indicate the period considered.

3.2.1. Electricity Consumption and Mix

3.2.2. Gas/Oil/solid Fuel Consumption

3.2.3. Renewable Energy Sources

3.2.4. Other Generation

3.2.5. Final Energy Consumption and CO₂ Emissions (according to the national emission factors)

3.3. Building exploitation, maintenance and management

If it's relevant for further analyses, please provide here information about specificity of the building exploitation, e.g. occupation hours, months of exploitation, building technical equipment set-up.

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⁹ Suggested free tool to find exact coordinated of a place: <http://www.mapcoordinates.net/en>



4. Existing state of building energy systems

Please provide in the following sections all data that will be necessary to evaluate energy savings suggestions, that will be presented in the next deliverable (D3.X.3 Energy simulations and technical improvement options). You are not obliged to put in these report any improvement options.

- 4.1. Heating system
- 4.2. Water and sewage system
- 4.3. HVAC
- 4.4. Cooling system
- 4.5. Electric system
- 4.6. Building envelope
- 4.7. Renewable energy sources
- 4.8. Lightning system
- 4.9. Other systems



5. Other information

Please add here other relevant information, not included in the previous sections.

6. Attachments

Please add here any attachment you consider relevant (e.g. energy bills, building schemes, photos)





Please replace with:
2 – for classrooms
3 – for sport halls
4 – for canteens

D.T3.X.2 ENERGY SIMULATIONS AND TECHNICAL IMPROVEMENT OPTIONS-

Country

Version 1
08 2018





IV. Building #4

1. Summary of the energy performance of the building and suggested improvement options

1.1. Summary of the existing state of the building

Please shortly summarise the existing state of the building, focusing on energy performance of the building.



2. Introduction

2.1. General information of audited organisation

4-5 sentences about the school (as an organisation).

2.2. Energy auditor(s)

Name	
Phone	
e-mail	
Accreditations and certificates	

Please add as many tables as needed

2.3. Context of the energy audit - scope, aim and thoroughness, timeframe and boundaries

- *needs and expectations of school managers*
- *scope of the audit (e.g. audit of the whole building, building unit, technical building system),*
- *Aim of the audit (e.g. to check compliance with energy performance requirements, energy certification, tailored energy audit, energy performance inspection etc.),*
- *degree of thoroughness and type of assessment required (e.g. calculated design, calculated as built, measured actual, measured standards / corrected for climate and use),*
- *and any other important boundary that would affect auditor's work.*

2.4. Description of audited object

5-10 sentences about the current state of the building (age, materials used, energy sources, technical equipment etc.)

2.5. Energy audit methodology

2.5.1. Relevant standards

List of standards used during the audit

2.5.2. Regulations

List of binding national regulations related to the energy audit

2.5.3. Information on data collection

Types of data collected, on-site visit date, sources of data etc.



3. General building data

3.1. Location

Building name	
Street, number, city and postcode	
Province/Region	
Country	
Longitude [DD.dd°] ¹⁰	
Latitude [DD.dd°] ¹¹	
Height above the see level [m] ¹²	
Year of construction	
Useful area - the whole building [m ²]	<i>Total useful area of the building</i>
Useful area - audited part [m ²]	<i>Useful area of an audited part of a school.</i>

3.2. Energy and water consumption

Please provide in the following sections data on historical energy consumption. Please clearly indicate the period considered.

3.2.1. Electricity Consumption and Mix

3.2.2. Gas/Oil/solid Fuel Consumption

3.2.3. Renewable Energy Sources

3.2.4. Other Generation

3.2.5. Final Energy Consumption and CO₂ Emissions (according to the national emission factors)

3.3. Building exploitation, maintenance and management

If it's relevant for further analyses, please provide here information about specificity of the building exploitation, e.g. occupation hours, months of exploitation, building technical equipment set-up.

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¹¹ Suggested free tool to find exact coordinated of a place: <http://www.mapcoordinates.net/en>

¹² Suggested free tool to find exact coordinated of a place: <http://www.mapcoordinates.net/en>



4. Existing state of building energy systems

Please provide in the following sections all data that will be necessary to evaluate energy savings suggestions, that will be presented in the next deliverable (D3.X.3 Energy simulations and technical improvement options). You are not obliged to put in these report any improvement options.

- 4.1. Heating system
- 4.2. Water and sewage system
- 4.3. HVAC
- 4.4. Cooling system
- 4.5. Electric system
- 4.6. Building envelope
- 4.7. Renewable energy sources
- 4.8. Lightning system
- 4.9. Other systems



5. Other information

Please add here other relevant information, not included in the previous sections.

6. Attachments

Please add here any attachment you consider relevant (e.g. energy bills, building schemes, photos)



V. Building #5

1. Summary of the energy performance of the building and suggested improvement options

1.1. Summary of the existing state of the building

Please shortly summarise the existing state of the building, focusing on energy performance of the building.



2. Introduction

2.1. General information of audited organisation

4-5 sentences about the school (as an organisation).

2.2. Energy auditor(s)

Name	
Phone	
e-mail	
Accreditations and certificates	

Please add as many tables as needed

2.3. Context of the energy audit - scope, aim and thoroughness, timeframe and boundaries

- *needs and expectations of school managers*
- *scope of the audit (e.g. audit of the whole building, building unit, technical building system),*
- *Aim of the audit (e.g. to check compliance with energy performance requirements, energy certification, tailored energy audit, energy performance inspection etc.),*
- *degree of thoroughness and type of assessment required (e.g. calculated design, calculated as built, measured actual, measured standards / corrected for climate and use),*
- *and any other important boundary that would affect auditor's work.*

2.4. Description of audited object

5-10 sentences about the current state of the building (age, materials used, energy sources, technical equipment etc.)

2.5. Energy audit methodology

2.5.1. Relevant standards

List of standards used during the audit

2.5.2. Regulations

List of binding national regulations related to the energy audit

2.5.3. Information on data collection

Types of data collected, on-site visit date, sources of data etc.



3. General building data

3.1. Location

Building name	
Street, number, city and postcode	
Province/Region	
Country	
Longitude [DD.dd°] ¹³	
Latitude [DD.dd°] ¹⁴	
Height above the see level [m] ¹⁵	
Year of construction	
Useful area - the whole building [m ²]	<i>Total useful area of the building</i>
Useful area - audited part [m ²]	<i>Useful area of an audited part of a school.</i>

3.2. Energy and water consumption

Please provide in the following sections data on historical energy consumption. Please clearly indicate the period considered.

3.2.1. Electricity Consumption and Mix

3.2.2. Gas/Oil/solid Fuel Consumption

3.2.3. Renewable Energy Sources

3.2.4. Other Generation

3.2.5. Final Energy Consumption and CO₂ Emissions (according to the national emission factors)

3.3. Building exploitation, maintenance and management

If it's relevant for further analyses, please provide here information about specificity of the building exploitation, e.g. occupation hours, months of exploitation, building technical equipment set-up.

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¹⁴ Suggested free tool to find exact coordinated of a place: <http://www.mapcoordinates.net/en>

¹⁵ Suggested free tool to find exact coordinated of a place: <http://www.mapcoordinates.net/en>



4. Existing state of building energy systems

Please provide in the following sections all data that will be necessary to evaluate energy savings suggestions, that will be presented in the next deliverable (D3.X.3 Energy simulations and technical improvement options). You are not obliged to put in these report any improvement options.

4.1. Heating system

4.2. Water and sewage system

4.3. HVAC

4.4. Cooling system

4.5. Electric system

4.6. Building envelope

4.7. Renewable energy sources

4.8. Lightning system

4.9. Other systems



5. Other information

Please add here other relevant information, not included in the previous sections.

6. Attachments

Please add here any attachment you consider relevant (e.g. energy bills, building schemes, photos)



VI. Building #6

1. Summary of the energy performance of the building and suggested improvement options

1.1. Summary of the existing state of the building

Please shortly summarise the existing state of the building, focusing on energy performance of the building.



2. Introduction

2.1. General information of audited organisation

4-5 sentences about the school (as an organisation).

2.2. Energy auditor(s)

Name	
Phone	
e-mail	
Accreditations and certificates	

Please add as many tables as needed

2.3. Context of the energy audit - scope, aim and thoroughness, timeframe and boundaries

- *needs and expectations of school managers*
- *scope of the audit (e.g. audit of the whole building, building unit, technical building system),*
- *Aim of the audit (e.g. to check compliance with energy performance requirements, energy certification, tailored energy audit, energy performance inspection etc.),*
- *degree of thoroughness and type of assessment required (e.g. calculated design, calculated as built, measured actual, measured standards / corrected for climate and use),*
- *and any other important boundary that would affect auditor's work.*

2.4. Description of audited object

5-10 sentences about the current state of the building (age, materials used, energy sources, technical equipment etc.)

2.5. Energy audit methodology

2.5.1. Relevant standards

List of standards used during the audit

2.5.2. Regulations

List of binding national regulations related to the energy audit

2.5.3. Information on data collection

Types of data collected, on-site visit date, sources of data etc.



3. General building data

3.1. Location

Building name	
Street, number, city and postcode	
Province/Region	
Country	
Longitude [DD.dd°] ¹⁶	
Latitude [DD.dd°] ¹⁷	
Height above the see level [m] ¹⁸	
Year of construction	
Useful area - the whole building [m ²]	<i>Total useful area of the building</i>
Useful area - audited part [m ²]	<i>Useful area of an audited part of a school.</i>

3.2. Energy and water consumption

Please provide in the following sections data on historical energy consumption. Please clearly indicate the period considered.

3.2.1. Electricity Consumption and Mix

3.2.2. Gas/Oil/solid Fuel Consumption

3.2.3. Renewable Energy Sources

3.2.4. Other Generation

3.2.5. Final Energy Consumption and CO₂ Emissions (according to the national emission factors)

3.3. Building exploitation, maintenance and management

If it's relevant for further analyses, please provide here information about specificity of the building exploitation, e.g. occupation hours, months of exploitation, building technical equipment set-up.

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¹⁷ Suggested free tool to find exact coordinated of a place: <http://www.mapcoordinates.net/en>

¹⁸ Suggested free tool to find exact coordinated of a place: <http://www.mapcoordinates.net/en>



4. Existing state of building energy systems

Please provide in the following sections all data that will be necessary to evaluate energy savings suggestions, that will be presented in the next deliverable (D3.X.3 Energy simulations and technical improvement options). You are not obliged to put in these report any improvement options.

- 4.1. Heating system
- 4.2. Water and sewage system
- 4.3. HVAC
- 4.4. Cooling system
- 4.5. Electric system
- 4.6. Building envelope
- 4.7. Renewable energy sources
- 4.8. Lightning system
- 4.9. Other systems



5. Other information

Please add here other relevant information, not included in the previous sections.

6. Attachments

Please add here any attachment you consider relevant (e.g. energy bills, building schemes, photos)





Please replace with:
2 – for classrooms
3 – for sport halls
4 – for canteens

D.T3.X.2 ENERGY SIMULATIONS AND TECHNICAL IMPROVEMENT OPTIONS-

Country

Version 1
08 2018





VII. Building #7

1. Summary of the energy performance of the building and suggested improvement options

1.1. Summary of the existing state of the building

Please shortly summarise the existing state of the building, focusing on energy performance of the building.



2. Introduction

2.1. General information of audited organisation

4-5 sentences about the school (as an organisation).

2.2. Energy auditor(s)

Name	
Phone	
e-mail	
Accreditations and certificates	

Please add as many tables as needed

2.3. Context of the energy audit - scope, aim and thoroughness, timeframe and boundaries

- *needs and expectations of school managers*
- *scope of the audit (e.g. audit of the whole building, building unit, technical building system),*
- *Aim of the audit (e.g. to check compliance with energy performance requirements, energy certification, tailored energy audit, energy performance inspection etc.),*
- *degree of thoroughness and type of assessment required (e.g. calculated design, calculated as built, measured actual, measured standards / corrected for climate and use),*
- *and any other important boundary that would affect auditor's work.*

2.4. Description of audited object

5-10 sentences about the current state of the building (age, materials used, energy sources, technical equipment etc.)

2.5. Energy audit methodology

2.5.1. Relevant standards

List of standards used during the audit

2.5.2. Regulations

List of binding national regulations related to the energy audit

2.5.3. Information on data collection

Types of data collected, on-site visit date, sources of data etc.



3. General building data

3.1. Location

Building name	
Street, number, city and postcode	
Province/Region	
Country	
Longitude [DD.dd°] ¹⁹	
Latitude [DD.dd°] ²⁰	
Height above the see level [m] ²¹	
Year of construction	
Useful area - the whole building [m ²]	<i>Total useful area of the building</i>
Useful area - audited part [m ²]	<i>Useful area of an audited part of a school.</i>

3.2. Energy and water consumption

Please provide in the following sections data on historical energy consumption. Please clearly indicate the period considered.

3.2.1. Electricity Consumption and Mix

3.2.2. Gas/Oil/solid Fuel Consumption

3.2.3. Renewable Energy Sources

3.2.4. Other Generation

3.2.5. Final Energy Consumption and CO₂ Emissions (according to the national emission factors)

3.3. Building exploitation, maintenance and management

If it's relevant for further analyses, please provide here information about specificity of the building exploitation, e.g. occupation hours, months of exploitation, building technical equipment set-up.

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²¹ Suggested free tool to find exact coordinated of a place: <http://www.mapcoordinates.net/en>



4. Existing state of building energy systems

Please provide in the following sections all data that will be necessary to evaluate energy savings suggestions, that will be presented in the next deliverable (D3.X.3 Energy simulations and technical improvement options). You are not obliged to put in these report any improvement options.

- 4.1. Heating system
- 4.2. Water and sewage system
- 4.3. HVAC
- 4.4. Cooling system
- 4.5. Electric system
- 4.6. Building envelope
- 4.7. Renewable energy sources
- 4.8. Lightning system
- 4.9. Other systems



5. Other information

Please add here other relevant information, not included in the previous sections.

6. Attachments

Please add here any attachment you consider relevant (e.g. energy bills, building schemes, photos)



VIII. Building #8

1. Summary of the energy performance of the building and suggested improvement options

1.1. Summary of the existing state of the building

Please shortly summarise the existing state of the building, focusing on energy performance of the building.



2. Introduction

2.1. General information of audited organisation

4-5 sentences about the school (as an organisation).

2.2. Energy auditor(s)

Name	
Phone	
e-mail	
Accreditations and certificates	

Please add as many tables as needed

2.3. Context of the energy audit - scope, aim and thoroughness, timeframe and boundaries

- *needs and expectations of school managers*
- *scope of the audit (e.g. audit of the whole building, building unit, technical building system),*
- *Aim of the audit (e.g. to check compliance with energy performance requirements, energy certification, tailored energy audit, energy performance inspection etc.),*
- *degree of thoroughness and type of assessment required (e.g. calculated design, calculated as built, measured actual, measured standards / corrected for climate and use),*
- *and any other important boundary that would affect auditor's work.*

2.4. Description of audited object

5-10 sentences about the current state of the building (age, materials used, energy sources, technical equipment etc.)

2.5. Energy audit methodology

2.5.1. Relevant standards

List of standards used during the audit

2.5.2. Regulations

List of binding national regulations related to the energy audit

2.5.3. Information on data collection

Types of data collected, on-site visit date, sources of data etc.



3. General building data

3.1. Location

Building name	
Street, number, city and postcode	
Province/Region	
Country	
Longitude [DD.dd°] ²²	
Latitude [DD.dd°] ²³	
Height above the see level [m] ²⁴	
Year of construction	
Useful area - the whole building [m ²]	Total useful area of the building
Useful area - audited part [m ²]	Useful area of an audited part of a school.

3.2. Energy and water consumption

Please provide in the following sections data on historical energy consumption. Please clearly indicate the period considered.

3.2.1. Electricity Consumption and Mix

3.2.2. Gas/Oil/solid Fuel Consumption

3.2.3. Renewable Energy Sources

3.2.4. Other Generation

3.2.5. Final Energy Consumption and CO₂ Emissions (according to the national emission factors)

3.3. Building exploitation, maintenance and management

If it's relevant for further analyses, please provide here information about specificity of the building exploitation, e.g. occupation hours, months of exploitation, building technical equipment set-up.

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²⁴ Suggested free tool to find exact coordinated of a place: <http://www.mapcoordinates.net/en>



4. Existing state of building energy systems

Please provide in the following sections all data that will be necessary to evaluate energy savings suggestions, that will be presented in the next deliverable (D3.X.3 Energy simulations and technical improvement options). You are not obliged to put in these report any improvement options.

- 4.1. Heating system
- 4.2. Water and sewage system
- 4.3. HVAC
- 4.4. Cooling system
- 4.5. Electric system
- 4.6. Building envelope
- 4.7. Renewable energy sources
- 4.8. Lightning system
- 4.9. Other systems



5. Other information

Please add here other relevant information, not included in the previous sections.

6. Attachments

Please add here any attachment you consider relevant (e.g. energy bills, building schemes, photos)

