

ENERGY SERVICE MARKET IN AUSTRIA

Monitoring, Controlling & Evaluation



Christoph PLOINER, MSc. | National Energy Efficiency Monitoring Agency
CAEED | 7th March | Munich

Article 8 | Implementation in Austria

National legislation

Federal Energy Efficiency Act

- Large enterprises (non SMEs) are obligated to report their energy audit to the **Monitoring Agency**
- Small and medium enterprises can report their energy audits
- Large enterprises: Internal energy audits are only possible in combination with energy related management systems (e.g. ISO 50001)
- Energy Service Providers (energy auditors & energy advisors) have to meet specific qualification requirements
- **Monitoring Agency** has to publish a [list of obligated companies](#)
- **Monitoring Agency** has to publish a [list of Energy Service Providers](#)
- Energy Audits have to be carried out by qualified Energy Service Providers
- Quality criteria for Energy Audits are laid down in the annex

Framework conditions

Company definition

To determine obligation: Sum of all enterprises operating in Austria with shares of more than 50% on or by other companies.

Key data	Threshold	above (▲) or beneath (▼) threshold?							
Employees	≤ 249	▼	▼	▼	▼	▲	▲	▲	▲
Turnover	≤ EUR 50 Mio.	▼	▲	▼	▲	▲	▼	▲	▼
Balance	≤ EUR 43 Mio.	▼	▼	▲	▲	▲	▼	▼	▲
		SME			Large Enterprise				



Large enterprises have to analyse their energy consumption in buildings, industrial processes and transport.

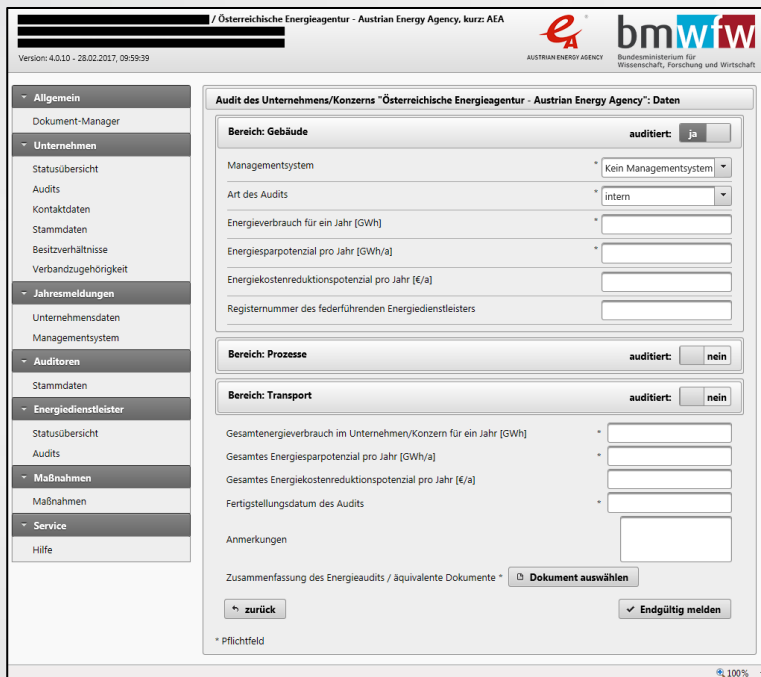
Companies have to report the executed energy audits to the **Monitoring Agency**

Framework conditions

Reporting of Energy Audits (1)

Online application and database for reporting (e-government | www.usp.gv.at)

Online-Form: • Analysed sector: Buildings | Processes | Transport



The screenshot shows the 'Audit des Unternehmens/Konzerns' form. The left sidebar contains navigation options: Allgemein, Unternehmen, Auditors, Energy Service Providers, Measures, and Service. The main form area is titled 'Audit des Unternehmens/Konzerns - Österreichische Energieagentur - Austrian Energy Agency: Daten'. It is divided into three sections: 'Bereich: Gebäude', 'Bereich: Prozesse', and 'Bereich: Transport'. Each section has a 'auditiert:' checkbox. The 'Gebäude' section includes fields for 'Managementssystem', 'Art des Audits', 'Energieverbrauch für ein Jahr [GWh]', 'Energiesparpotenzial pro Jahr [GWh/a]', 'Energiekostenreduktionspotenzial pro Jahr [€/a]', and 'Registernummer des federführenden Energiedienstleisters'. The 'Prozesse' and 'Transport' sections have similar fields for energy consumption, savings potential, and report completion date. At the bottom, there are buttons for 'zurück' and 'Endgültig melden', along with a 'Dokument auswählen' button for uploading documents. A note at the bottom left indicates that certain fields are mandatory (* Pflichtfeld).

- Information on management system(s)
- Internal or external energy audit
- Energy consumption per sector & in total
- Energy savings potential per sector & in total
- Energy cost savings per sector & in total
- Register number of leading energy auditor
- Completion date of report
- Energy audit report (recommended) and/or Summary of energy audit report (obligatory)

Framework conditions

Reporting of Energy Audits (2)

Recommended template

monitoringstelle
energieeffizienz

Zusammenfassung des Energieaudits gemäß § 9 EEEffG
Meldung an die Monitoringstelle Energieeffizienz



AUSTRIAN ENERGY AGENCY

Zusammenfassung des Energieaudits gemäß § 9 EEEffG

Name des auditierten Unternehmens _____

28. Februar 2017

Version: 17. November 2015

Hinweis!

Die Inhalte dieser Zusammenfassung sind in einem Dokument darzustellen, vom federführenden Energieauditor zu unterzeichnen und als Nachweis der Erfüllung der Verpflichtung gemäß § 9 EEEffG fristgerecht in der Anwendung zum Energieeffizienzgesetz im Unternehmensserviceportal (USP) hochzuladen (pdf-Format). Der Energieauditbericht muss im ersten Schritt nicht hochgeladen werden. Auf Verlangen ist dieser der Monitoringstelle zu übermitteln.

Die Angaben dieser Zusammenfassung dienen in erster Linie zur Plausibilisierung der Energieaudits durch die Monitoringstelle Energieeffizienz. Die angegebenen Energieeffizienzmaßnahmen sind nicht verpflichtend umzusetzen.

Auditiertes Unternehmen	Text
Straße, Nr.	Text
PLZ, Ort	Text
Tätigkeit (ÖNACE 2008)	Text

Beschreibung des Unternehmens
Hier sind die wirtschaftlichen Tätigkeiten des Unternehmens zu beschreiben.

Text

Audit-Team

Führende/r Auditor/In:	Name Unternehmen
Zweite/r Auditor/In:	Name Unternehmen
Dritte/r Auditor/In:	Name Unternehmen

Vom Audit erfasste Unternehmen und Standorte
Es sind alle im Audit erfassten Unternehmen sowie ihre zugehörigen Standorte anzuführen. Werden Unternehmen sowie ihre zugehörigen Standorte ausgenommen, ist dies aufzuzeigen und zu begründen.

Text

Datum der (ersten) Begehung: _____

Monitoringstelle Energieeffizienz
Österreichische Energieagentur - Austrian Energy Agency
01 - 20 52 20 | office@monitoringstelle.at | www.monitoringstelle.at

- Available on the website of the Monitoring Agency
- Templates for Energy Audit & Energy Audit Summary

Contents of the summary (obligatory)

- Scope of the audit (Description and locations of the company)
- Names of the auditors
- Energy consumption of each energy carrier
- Energy consumption of most relevant devices
- Potential energy efficiency measures
- Plan for implementation of energy efficiency measures

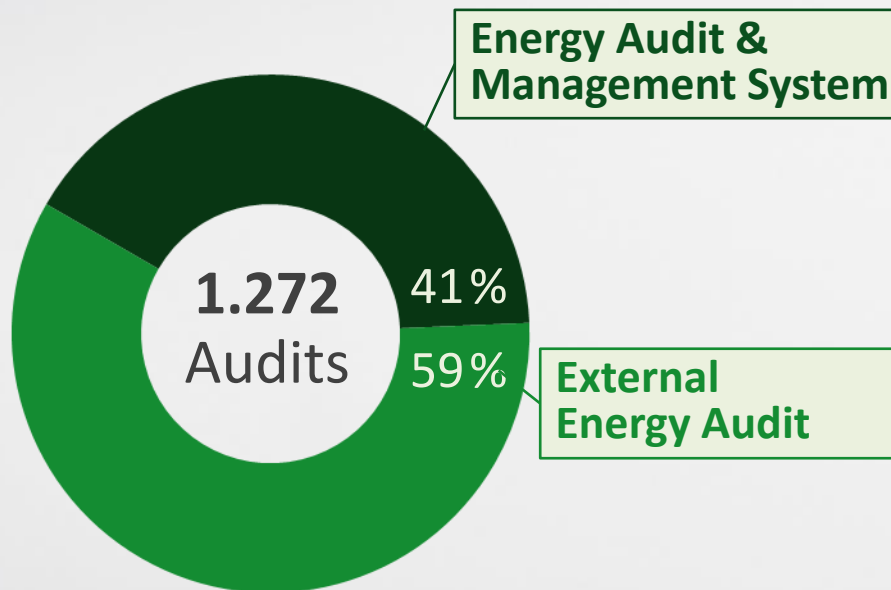
Numbers for Austria

Obligated Companies & registered Energy Auditors

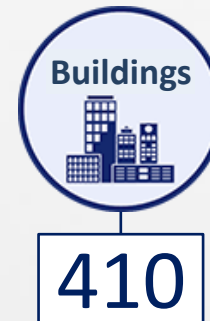
1.966 Large Enterprises



478 Energy Auditors



thereof...



all three fields: 75 auditors

Numbers on energy consumption and energy efficiency potentials are not entirely evaluated

Controlling

Levels and methods of controlling

1. Plausibility check

Comparison of key figures of **all** obligated companies; Identification of statistical outliers;
Qualification of the energy auditors

2. Compilation of sample for in-depth checks

Set-up a list of implausible and random audits (representative)

3. In-depth check

Compliance with the legal requirements; certification status; plausibility check of the figures on energy consumption and energy efficiency measures;

4. On-site check

Mostly face-to-face discussion on the contents of the audits; Inspection of the consuming facilities

Data analysis

Further use of reported Energy Audits

Limited data export possible:

- + Input data in forms are digital available and can be used for further analysis
- Energy Audits and summaries have to be digitalised before analysis

At this stage the primary application area of the exported data is the compliance check

Federal Energy Efficiency Act foresees the possibility of limited third party usage of reported data (if compatible with data security and privacy regulations).

Energy Service Market | Survey Results

Survey on Energy Service Market

Basic information

Online survey based on web questionnaires



The screenshot shows the survey interface for 'monitoringstelle energieeffizienz'. The title is 'Energieeffizienz – Dienstleistungsmarkt'. The text explains that the Energy Efficiency Act (EEFG) opens many opportunities for companies but also brings obligations and challenges. It mentions that 2015 was the first obligation period and that the monitoring station has received over 10,000 requests. A key task is to observe the market for measures, audits, and other services. The survey requires a password, and a 'Weiter' button is provided. At the bottom, contact information for the Austrian Energy Agency is listed.

> 2,000 Companies

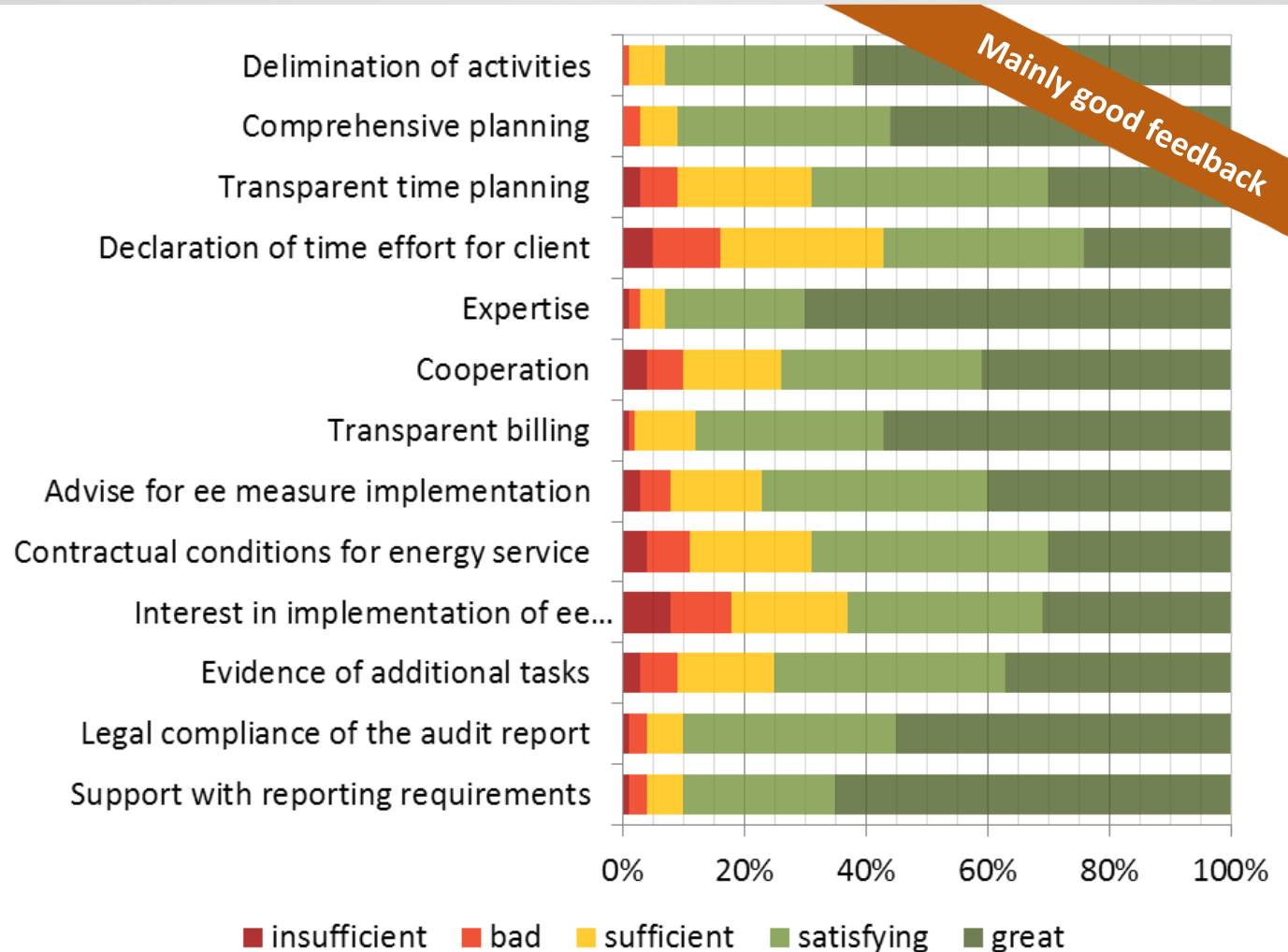
> 45 %
returned

Survey Topics (Relevant for Article 8)

- Quality of energy auditors
- Large Enterprises
- Costs of Energy Audits
- Provider of energy savings contracting

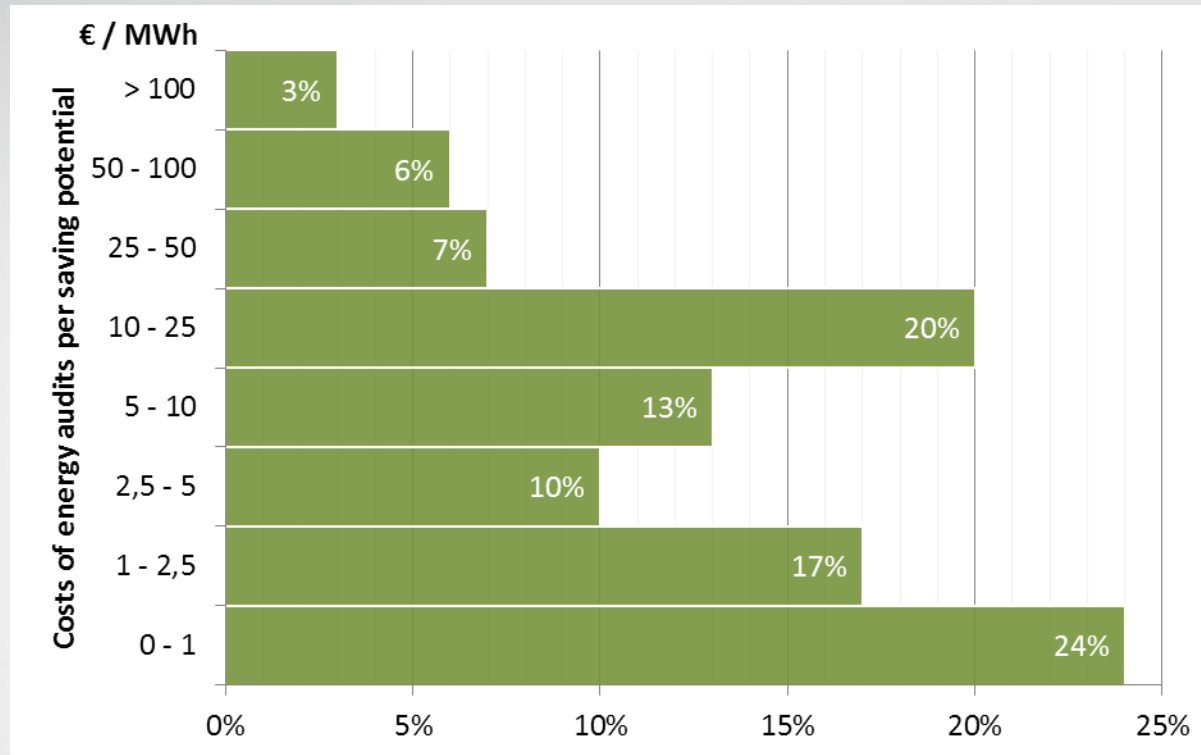
Survey on Energy Service Market

Quality of energy auditors



Survey on Energy Service Market

Specific costs of energy audits



Very different energy saving potentials and audit costs

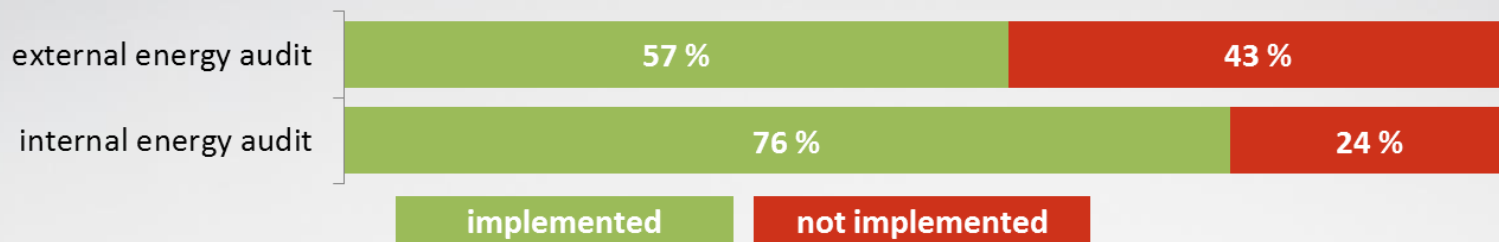
Prices of energy efficiency measures in EEO at the time of the study at a level of 1 Ct./kWh

=> 36 % of the audits have higher specific costs than the average of energy efficiency measures

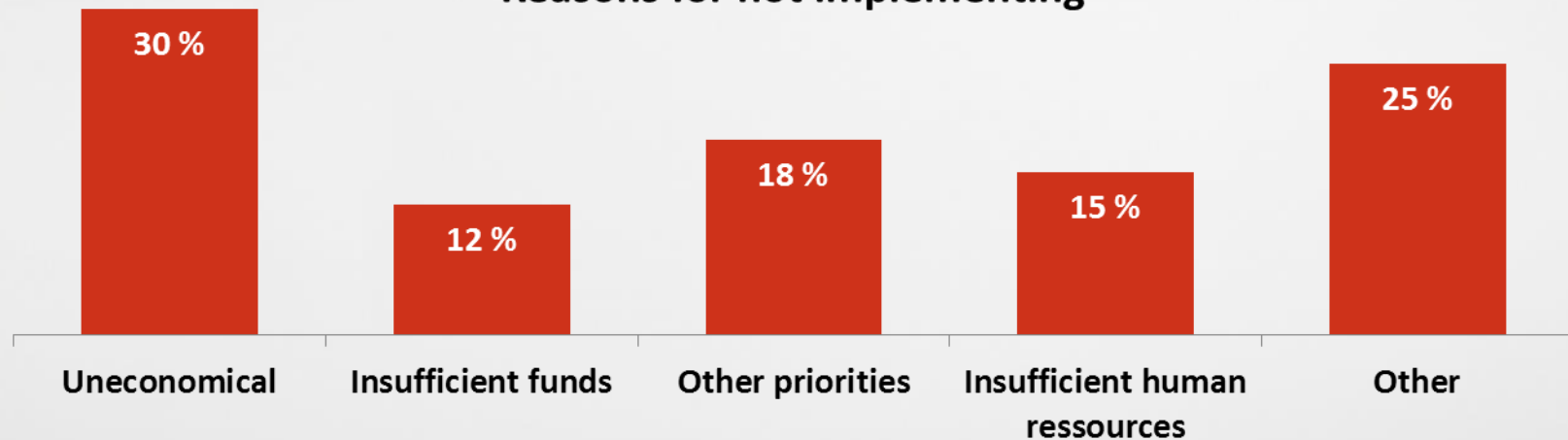
Survey on Energy Service Market

Implementation of measures

Implementation status of planned measures



Reasons for not implementing

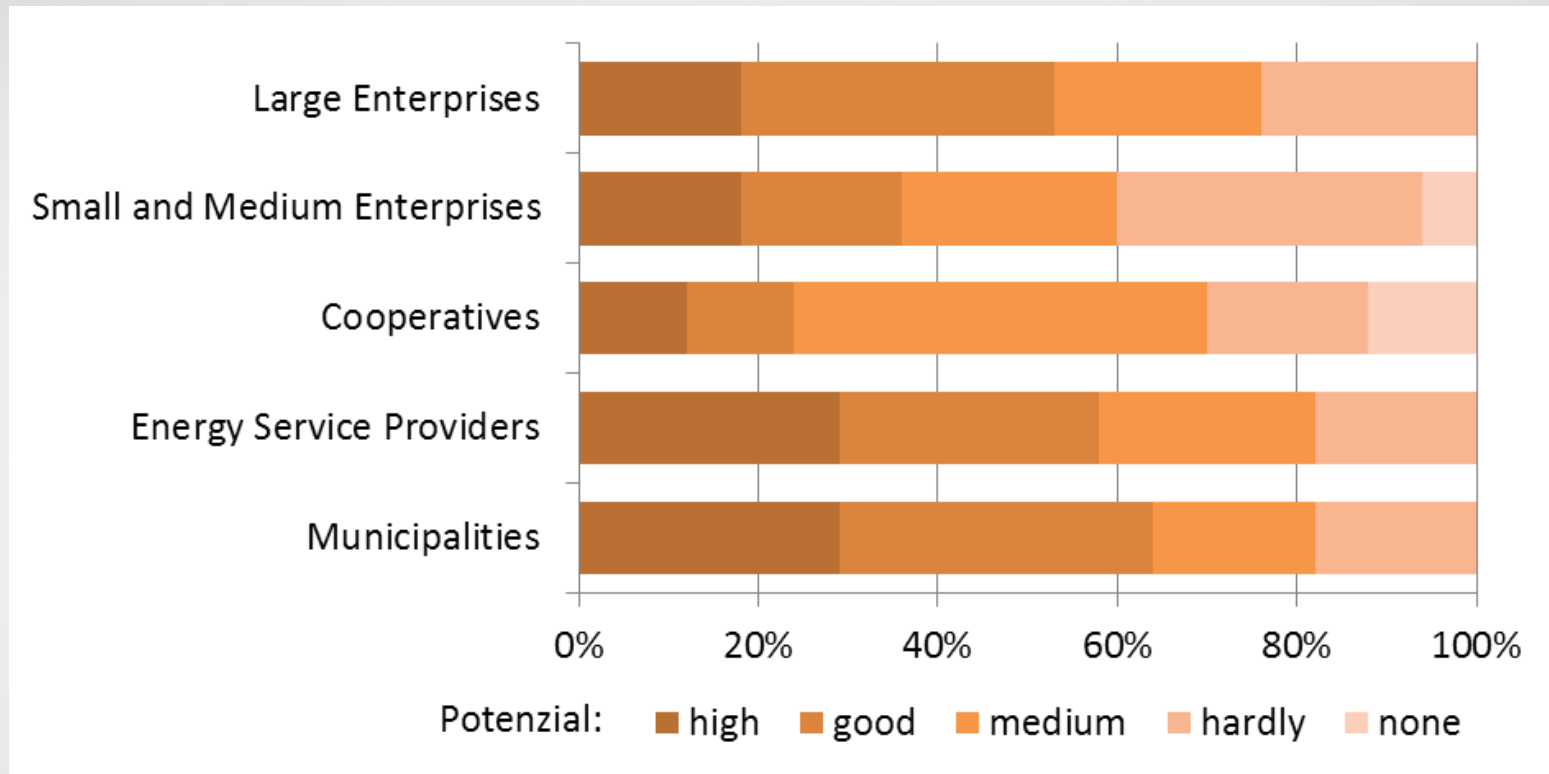


Other reasons:

Lack of time, planning efforts, non-owner of the building, long-term-measures

Survey on Energy Service Market

Potentials of contracting projects

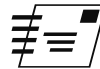


Contact

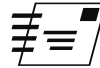
Questions on the Austrian
Implementation of the
Energy Efficiency Directive?



www.monitoringstelle.at (only German)



office@monitoringstelle.at



christoph.ploiner@energyagency.at

Christoph Ploiner

Scientific Officer

Austrian Energy Agency

*The **Austrian Energy Agency** is the national centre of excellence for energy. New technologies, renewable energy, and energy efficiency are the focal points of our scientific activities.*