

Monitoring, Reporting and Verification

Experiences in Austria

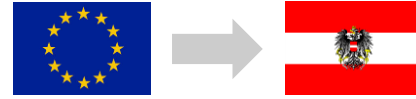
monitoringstelle
energieeffizienz
(National Energy Efficiency Monitoring Agency)

Austrian Energy Agency (AEA)
Christoph Ploiner, MSc | 28th May 2020



Article 7

Legal Framework in brief



Austrian Article 7 Target 2014-2020: **218 PJ** cumulative final energy savings

Energy Efficiency Act = national implementation of EED (Energy Efficiency Directive)

- EEOs & Alternative Strategic Measures (Energy tax & Subsidy Programs)
- National Target: 159 PJ_{cum} EEOs & 151 PJ_{cum} Alternative Strategic Measures
- Implementation of National Energy Efficiency Monitoring Agency

Decree on Energy Efficiency (according to the Energy Efficiency Act)

- Standardized measures catalogue
- Requirements and guidance on individual measures

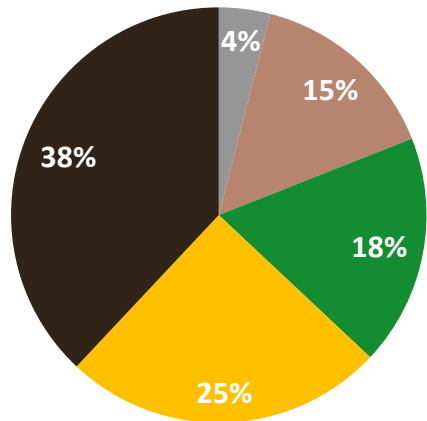
Energy Efficiency Obligation Scheme






Obligated parties

“Sales to final customers” \geq 25 GWh

Energy suppliers with shares $>$ 50% are considered as one company

413 obligated energy supplier:



-  Oil Supplier (gas stations, heating oil delivery)
-  Electricity and gas suppliers
-  Stores (e.g. DIY superstores)
-  Municipal utilities & District heat
-  Other

Energy Efficiency Obligation Scheme

Experiences

- Number of obligated parties should be as low as possible
- Enough time for reporting, but deadline necessary
- Control of eligibility easier with public authority
- Keep the EEOS as simple as possible (e.g. reduce number of exemptions)
- Clear rules are needed
 - Definition of the most relevant terms (e.g. final energy consumption)
 - Requirements for individual energy saving actions
- Exclude critical energy saving actions from the EEOS

Reporting of Energy Efficiency Measures Online Application / Database

e-Government application for the Energy Efficiency Act

Required tasks

- Registration at National Energy Efficiency Monitoring Agency
- Registration at e-government platform “Unternehmensserviceportal **USP**”
- “Handy-Signatur” (digital identification) of person responsible for the report required. Each entry into the application will be logged.

Why e-Government



- **Sensible data**: personal data | company confidentiality
- **Data security**: Multiple levels of security

➔ **Reporting of measures via online forms**

Reporting of Energy Efficiency Measures

Insights into the Online-Application

Rollen: [REDACTED]
KUR: [REDACTED]
Version: 9.0.1 - 12.06.2019, 15:09:08

  Bundesministerium
Nachhaltigkeit und Tourismus

Allgemein

- Dokument-Manager

Unternehmen

- Statusübersicht
- Audits
- Kontaktdaten
- Stammdaten
- Besitzverhältnisse
- Verbandzugehörigkeit

Jahresmeldungen

- Unternehmensdaten
- Energieabsatz
- Ausschreibungen
- Managementsystem

Maßnahmen

- Maßnahmen**

Service

- Hilfe

Maßnahmenformular auswählen

- 1 Allgemein
- Beleuchtung
- Bewusstseinsbildende Maßnahmen
- Effiziente Stromerzeugung
- Elektrogeräte
- Gebäudehülle
- ▾ Heizsysteme und Warmwasser
 - Fernwärme
 - Heizkessel
- ▾ Solarthermische Anlagen
 - Solare Warmwasserbereitung (ab 1.1.2017)
 - Solarthermisch Anlagen (1.1.2014 - 31.12.2016)
 - Teilsolare Raumheizung (ab 1.1.2017)
- Wärmepumpen
- Wärmespeicher in Gebäuden
- Wärmeverteilung in Gebäuden
- Kühlung und Klimatisierung
- Mobilität

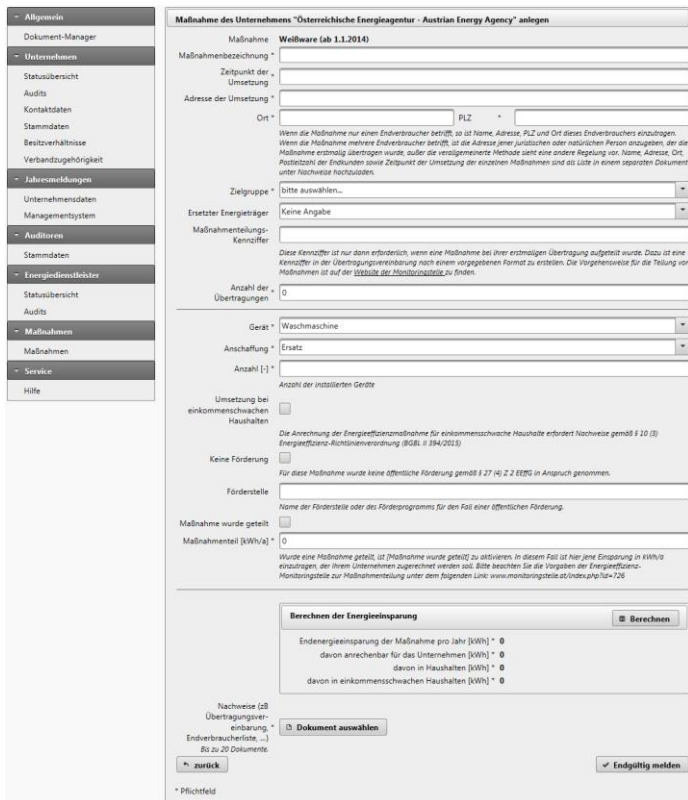
Maßnahmen-Details

Wählen Sie bitte ein Maßnahmenformular aus.

[← zurück](#) [→ weiter](#)

120%

Reporting of Energy Efficiency Measures Report form



The screenshot shows a web-based form for reporting energy efficiency measures. The form is titled 'Maßnahme des Unternehmens "Österreichische Energieagentur - Austrian Energy Agency" anlegen'. It contains several sections for data entry:

- Maßnahme:** Wellware Lab 1.1.2014
- Maßnahmenbezeichnung:** (empty)
- Zeitpunkt der Umsetzung:** (empty)
- Adresse der Umsetzung:** (empty)
- Ort:** (empty)
- Zielgruppe:** [Bitte auswählen...]
- Ersatzer Energieträger:** Keine Angabe
- Maßnahmenstellungs-Kennziffer:** (empty)
- Anzahl der Übertragungen:** 0
- Gerät:** Waschmaschine
- Anschaffung:** Ersatz
- Anzahl [1]:** (empty)
- Umsetzung bei einkommensschwachen Haushalten:**
- Keine Förderung:**
- Förderstelle:** (empty)
- Maßnahme wurde geteilt:**
- Maßnahmenteil [kWh/a]:** 0

At the bottom, there is a 'Berechnen der Energieeinsparung' section with a 'Berechnen' button. Below it, there are fields for 'Nachweise (ab Übertragungsvereinbarung, Endverbraucherliste, ...)' and a 'Dokument auswählen' button. The form also includes 'zurück' and 'Endgültig melden' buttons.

General questions

- Name of beneficiary
- Date of implementation
- Address of measure
- Reduced energy carrier
- Upload for evidence
- Subsidy

Measure specific (exemplary)

- Appliance type
- Number of appliances
- Performance
- Operating hours



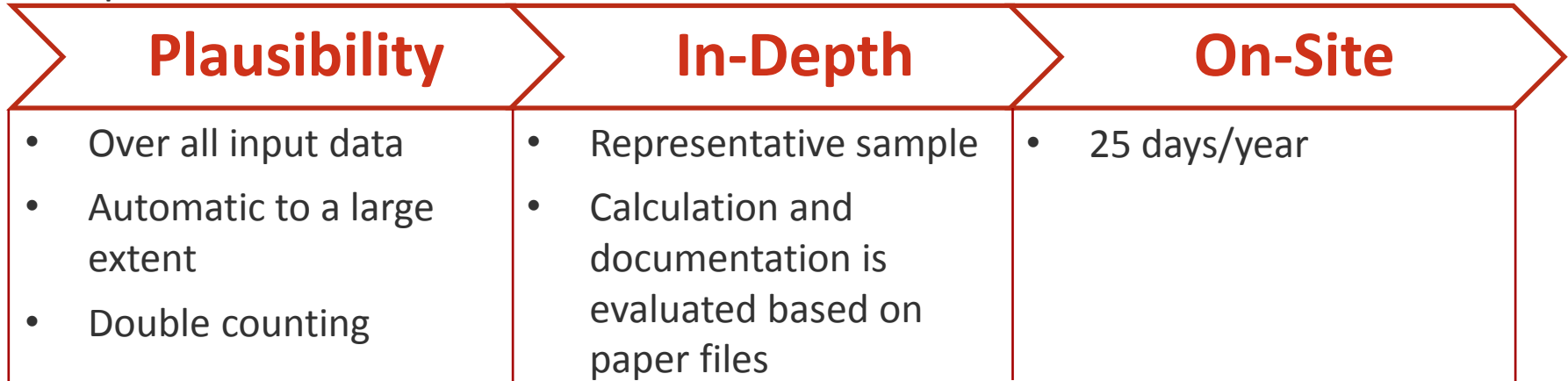
Calculation of energy savings

Verification

All required data is reported via the **online database**

No pre-checks: Measures are controlled and verified after being reported by an obligated party

3-step-evaluation:



Monitoring & Verification

Success factors

- Standardised report procedures and reporting templates
- Clear definition of eligible measures
- Clear definition of evaluation and documentation requirements
- Use default evaluation values for standard measures (especially in households) and use the deemed savings approach in all possible cases
- Performing checks on paper files instead of on-site as much as possible
- Introduction of a paperless process
- Automation of the monitoring process (e.g. use of databases)
- Clear and transparent rules adequately communicated to all actors

Experiences

- Companies want legal certainty => pre checks for big energy saving measures can improve certainty
- In some cases standardized methods can trigger undesirable side effects => Possibility of fast changings in methods should be accorded
- Long lead time for build-up of reporting infrastructure and information of obligated parties necessary
- More features of the Online-Application can reduce data input and verification enormous
- Don't underestimate the creativity of obligated parties

Best Practice

- Involvement of stakeholders (obligated parties, energy service provider, ...)
- Centralized e-Government platform for energy efficiency reporting
- Decree on requirements and guidance on individual measures
- Evidence of many individual energy saving actions
- Big industrial energy saving measures

Contact

Christoph Ploiner, MSc.

Expert

Österreichische Energieagentur - Austrian Energy Agency

christoph.ploiner@energyagency.at

Tel +43 (0)1 586 15 24 - 104

Mariahilfer Strasse 136 | 1150 Vienna | Austria

www.energyagency.at

 @at_AEA



In the podcast [Petajoule](#), the experts of the Austrian Energy Agency will be answering questions to the energy future with guests from the energy sector.