

# Set of resources for Monitoring, Reporting and Verification

---

## Report D3.2

Project Coordinator: INSTITUTE FOR EUROPEAN ENERGY AND CLIMATE POLICY STICHTING - IEACP

Work Package Austrian Energy Agency – AEA

October 2021



This project has received funding from the European Union's Horizon 2020 Research and innovation programme under grant agreement No 840034.

## Authors

Gregor Thenius, Austrian Energy Agency

Document title	Set of resources for Monitoring, Reporting and Verification
Work Package	WP 3
Document Type	Deliverable
Date	8 November 2021
Document Status	Final version

## Acknowledgments & Disclaimer

This project has received funding from the *European Union's Horizon 2020 research and innovation programme* under grant agreement No 840034.

Neither the European Commission nor any person acting on behalf of the Commission is responsible for the use which might be made of the following information. The views expressed in this publication are the sole responsibility of the author and do not necessarily reflect the views of the European Commission.

Reproduction and translation for non-commercial purposes are authorised, provided the source is acknowledged.

## Table of Contents

<b>Set of resources for Monitoring, Reporting and Verification .....</b>	<b>1</b>
<b>Preface .....</b>	<b>4</b>
<b>1   Cycle 1.....</b>	<b>5</b>
<b>1.1 Parameters for Monitoring, Reporting and Verification of Article 7 Energy Efficiency Directive.....</b>	<b>5</b>
<b>1.2 Cost effectiveness for Monitoring, Reporting and Verification .....</b>	<b>5</b>
<b>2   Cycle 2.....</b>	<b>6</b>
<b>2.1 Step by step guide for Monitoring, Reporting and Verification .....</b>	<b>6</b>
<b>3   Material from Work Package 2 .....</b>	<b>7</b>
<b>3.1 Gap analysis on the issues of policy (re)design, implementation, monitoring, reporting and verification .....</b>	<b>7</b>
<b>3.2 Matching existing tools for MRV and Policy Implementation with needs &amp; gaps.....</b>	<b>7</b>
<b>3.3 ENSMOV Snapshot reports .....</b>	<b>8</b>
<b>3.4 Webinar on IT tools .....</b>	<b>8</b>
<b>Annex .....</b>	<b>9</b>

# Preface

---

Work package 3 of ENSMOV translates the findings of work package 2 on needs assessments and tools to generate resources for practical support for policy makers and stakeholders. The objectives are to:

- provide support materials to Member States in policy implementation for EEOs and alternative policies;
- create toolkits for implementing MRV that is integrated into policy design and meets the requirements of current EED legislation (linked also the new Governance regulation and EPBD);
- synthesize all support material to produce guidance for integrated policy implementation;
- plan a structured knowledge exchange programme on MRV and policy implementation to Member States using generated resources.

This report summarises the material developed in task 3.2 “Resource development for Monitoring, Reporting and Verification” in the three cycles of the project.

The following chapters contain a short description of each material. The full versions of the respective materials can be found in the Annex to this report.

# 1 | Cycle 1

---

## 1.1 Parameters for Monitoring, Reporting and Verification of Article 7 Energy Efficiency Directive

This report offers an overview of the most important parameters, terms, and concepts that are relevant for monitoring, reporting and verification procedures for Article 7 EED. Additionally to offering a summarised list of relevant terms and concepts, the report offers easily comprehensible explanations thereof.

The terms and concepts include target groups, additionality, materiality, monitoring, time schedules, reporting, verification, data sources, accounting for savings.

### ENSMOV Webinars

The first general ENSMOV webinar on MRV can be watched here: <https://ensmov.eu/1st-ensmov-thematic-webinar-recording-and-presentations-available/>

The ENSMOV webinar related to this topic can be watched here: <https://ensmov.eu/ensmov-thematic-webinar-technical-aspects-of-mrv-recording-available/>

## 1.2 Cost effectiveness for Monitoring, Reporting and Verification

According to the surveys implemented in the beginning of ENSMOV, designing policies in order to minimise the costs for all parties involved and cost-efficient provision of monitoring, reporting and verification (MRV) are among the crucial topics for Member States. Thus, this report presents the cost drivers for energy efficiency policies and proposals on what to consider when defining and redesigning MRV procedures in order to minimise the associated costs.

## 2 | Cycle 2

---

### 2.1 Step by step guide for Monitoring, Reporting and Verification

This report gives an overview of the contents to be considered when setting up a Monitoring, Reporting and Verification (MRV) system for Article 7 of the Energy Efficiency Directive (2012/27/EU – EED). It is based on the report on the parameters of an MRV system from Cycle 1 and deals with the necessary contents of such a system in the form of a step-by-step guide. An MRV system in the course of the implementation of Article 7 means the demonstrable tracking of additional implemented individual energy saving actions to reduce final energy consumption.

Due to the very broad implementation options for the fulfilment of Article 7 EED, the report refers more to causal relationships than to implementation details of specific policy instruments, even though policy instruments are sometimes used as examples.

#### **ENSMOV webinar**

The ENSMOV webinar related to this topic can be watched here: <https://ensmov.eu/ensmov-workshop-step-by-step-guide-for-setting-up-and-modifying-an-mrv-scheme/>

## 3 | Material from Work Package 2

---

### 3.1 Gap analysis on the issues of policy (re)design, implementation, monitoring, reporting and verification

This report presents a gap analysis of European Union (EU) Member States' (MSs') implementation of Article 7 of the Energy Efficiency Directive (EED). It identifies areas of policy implementation that have been carried out in ways that are not always consistent with the EED, particularly around monitoring, reporting and verification (MRV) and policy (re-)design issues associated with policy measures that can deliver energy savings compliant with the EED. The report focuses on key issues, selected on the basis of stakeholder feedback and desk research, and the impacts that these could have on the achievement of Article 7 targets.

### 3.2 Matching existing tools for MRV and Policy Implementation with needs & gaps

This report provides an overview of an extensive mapping and matchmaking exercise that identified various tools and resources at the International, European-EU and National levels that are relevant to the MRV and implementation of Article 7 of the Energy Efficiency Directive (EED). Drawing on a compendium of tools and resources assembled, we have matched these existing tools and resources with the core findings of the needs assessment report and gap analysis report undertaken by ENSMOV project partners.

In our report, we identify the key resources and tools most relevant to the prominent needs and gaps identified across Member States (MS), which, tend to be International tools and European-EU level tools and resources that are created with energy efficiency policy and EED directives and targets in mind. National tools and resources, that are tailored to specific country contexts, appear less frequently in our matchmaking results, with Horizon 2020 and European Commission led EU-level projects in particular providing information most relevant to Article 7 of the EED. In addition, numerous reports draw very closely on national case studies and examples in order to highlight the diversity of approaches to policy implementation, MRV, alternative measures and energy efficiency obligation schemes that are required to meet Article 7 targets. Thus, drawing parallels with the MULTEE project, we find that both knowledge exchange and coordination of experience sharing between different

governance levels is fundamental to understanding best practices and successful case studies in energy efficiency policy. We also include a selected set of relevant ‘Academic Outputs’ that stakeholders will find useful for independent and critical insight into policy measures for Article 7.

In the core part of our matchmaking exercise (Chapter 4), we have identified 7 gaps, providing a suggested set of tools and resources that will then assist policymakers and stakeholders in addressing these gaps. We also highlight important aspects of gaps that are currently not addressed by specific tools, before suggesting and identifying the types of additional tools required for the next implementation phase of Article 7 of the EED (2021 – 2030)

### 3.3 ENSMOV Snapshot reports

The two ENSMOV snapshot reports for EEOS and alternative measures respectively also include information on the costs for EEOS and alternative measures and learnings regarding the improvement of MRV procedures for different EU Member States.

<https://ensmov.eu/snapshot-of-energy-efficiency-obligation-schemes-in-europe-as-of-end-2019/>

<https://ensmov.eu/snapshot-of-alternative-measures-in-europe-article-7-eed-as-of-end-2019/>

### 3.4 Webinar on IT tools

The ENSMOV webinar on IT tools for energy efficiency policies presenting case examples from 5 countries can be watched here: <https://ensmov.eu/recording-ensmov-workshop-it-tools-for-energy-efficiency-policies/>

The respective powerpoint presentations can also be accessed via this link.



# Annex

---

The following reports are attached to this report:

- Parameters for Monitoring, Reporting and Verification of Article 7 Energy Efficiency Directive
- Cost Effectiveness for Monitoring, Reporting and Verification (Article 7 EED)
- Setting up a MRV system, Step by step guidance
- Gap analysis on the issues of policy (re)design, implementation, monitoring, reporting and verification
- Gap analysis on the issues of policy (re)design, implementation, monitoring, reporting and verification
- Snapshot of Alternative Measures for the Article 7 of the Energy Efficiency Directive 2012/27/EU (as of end 2019)
- Snapshot of Energy Efficiency Obligation Schemes in Europe (as of end 2019)