

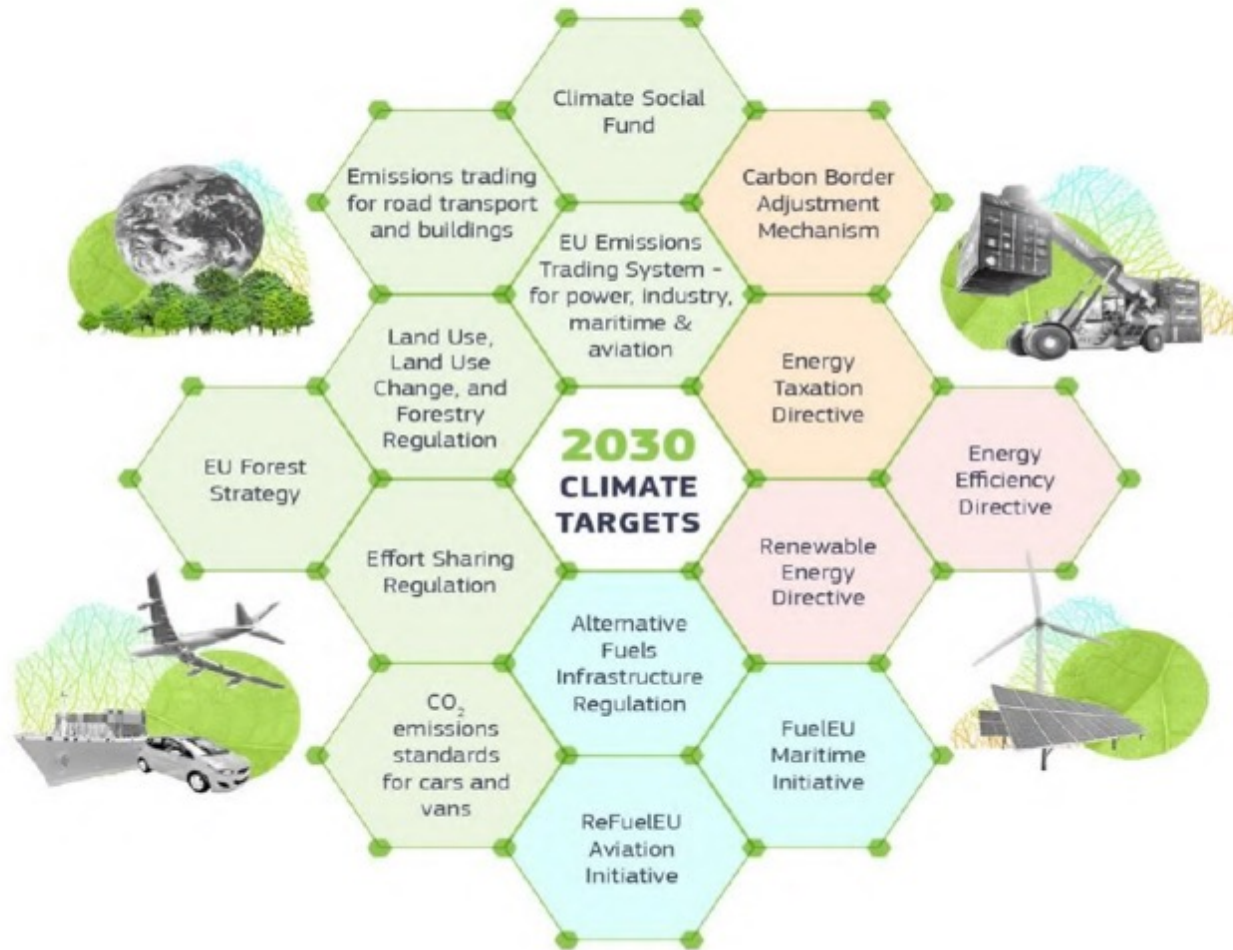
# REGIONAL TRAINING ON MODEL-BASED INTEGRATED ENERGY AND CLIMATE ANALYSES

Almaty, 24 September 2024

## Preparing National energy and climate plan

Mindaugas Stonkus,  
International Expert, SECCA

# The Fit for 55 Package – Overview

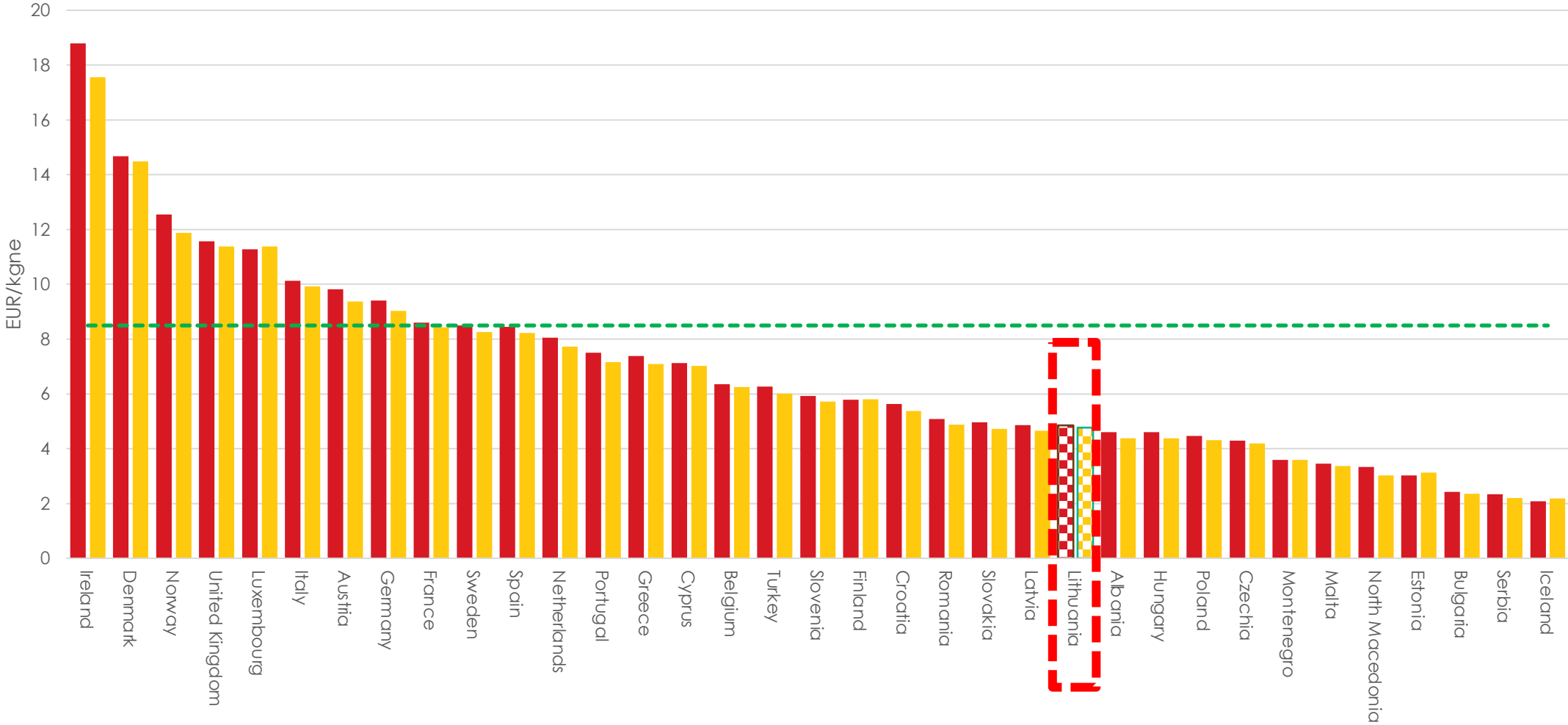


The package aims to make the EU 'fit for 55' and **deliver the transformational change** needed in a

- **fair,**
  - **cost-efficient** and
  - **competitive**
- way.**

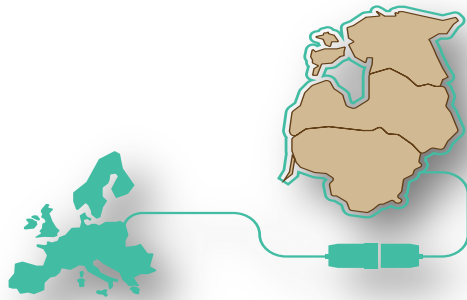
It cements the **EU's global leadership** by action and by example in the **fight against climate change**

# LT energy intensity comparing to EU 27+UK and target till 2030

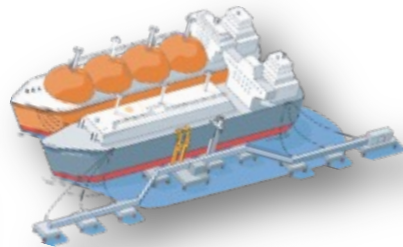


# National objectives with regards to security of supply

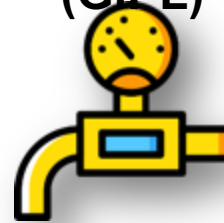
Synchronization  
with Continental  
Europe Networks  
& “Harmony Link”



Klaipėda LNG  
import terminal



Gas  
interconnection  
Poland –  
Lithuania  
(GIPL)



Incentives  
schemes for  
prosumers



## Following the Commission's recommendations:

- **Additional information and measures introduced :**
  - *About capacity provision mechanism;*
  - *About the Kruonis pumped storage plant as a means to provide rapid reserve power, and its development project;*
  - *A description of the adequacy associated with the capacity mechanism;*
  - *Storage devices are described as a means of ensuring adequacy.*

# Preparing NECP and its content

## **SECTION A: NATIONAL PLAN**

### 1. OVERVIEW AND PROCESS FOR ESTABLISHING THE PLAN

- 1.1. Executive Summary
- 1.2. Overview of current policy situation
- 1.3. Consultations and involvement of national and EU entities and their outcome
- 1.4. Regional cooperation in preparing the plan

### **2. NATIONAL OBJECTIVES AND TARGETS**

- 2.1. Dimension Decarbonisation
- 2.2. Dimension Energy efficiency
- 2.3. Dimension Energy security
- 2.4. Dimension Internal energy market
  - 2.4.1. Electricity interconnectivity
  - 2.4.2. Energy transmission infrastructure
  - 2.4.3. Market integration
  - 2.4.4. Energy poverty

# Preparing NECP and its content

## 3. POLICIES AND MEASURES

### 3.1. Dimension Decarbonization

#### 3.1.1. GHG emissions and removals

#### 3.1.2. Renewable energy

#### 3.1.3. Other elements of the dimension

### 3.2. Dimension Energy efficiency

### 3.3. Dimension Energy security

### 3.4. Dimension Internal energy market

#### 3.4.1. Electricity infrastructure

#### 3.4.2. Energy transmission infrastructure

#### 3.4.3. Market integration

#### 3.4.4. Energy Poverty

### 3.5. Dimension Research, innovation and competitiveness

# Preparing NECP and its content

## SECTION B: ANALYTICAL BASIS

4. CURRENT SITUATION AND PROJECTIONS WITH EXISTING POLICIES AND MEASURES

5. IMPACT ASSESSMENT OF PLANNED POLICIES AND MEASURES

Part 2

1. List of parameters and variables to be reported in Section B of National Plans

1.1. General parameters and variables

1.2. Energy balances and indicators

1.3. GHG emissions and removals related indicators

2. Description of energy efficiency measures according to EED Annex II

# Guidelines for preparation of NECP

## 3.4. Dimension Internal energy market<sup>1</sup>

### 3.4.1. Electricity infrastructure

#### i. Policies and measures to achieve the targeted level of interconnectivity as set out in Article 4(d)

*(1) the level of electricity interconnectivity that the Member State aims for in 2030 in consideration of the electricity interconnection target for 2030 of at least 15%, with a strategy with the level from 2021 onwards defined in close cooperation with affected Member States, taking into account the 2020 interconnection target of 10% and the indicators of the urgency of action [ ] based on price differential in the wholesale market, nominal transmission capacity of interconnectors compared to their peak load and to installed renewable generation as set out in Annex I. Each new interconnector must be subject to a socioeconomic and environmental cost-benefit analysis and implemented only if the potential benefits outweigh the costs.*

*(2) Key electricity and gas transmission [ ] infrastructure projects, [ ] and, where relevant, modernisation projects, that are necessary for the achievement of objectives and targets under the five dimensions of the Energy Union Strategy.*

*(3) national objectives related to other aspects of the internal energy market such as: increasing system flexibility, in particular [ ] through policies and measures related to marketbased price formation in compliance with applicable legislation [ ]\*); market integration and coupling, aimed at increasing the tradeable capacity of existing interconnectors, smart grids, aggregation, demand response, storage, distributed generation, mechanisms for dispatching, redispatching and curtailment and real-time price signals [ ], including a timeframe for when the objectives should be met, and other national objectives related to the internal energy market as set out in Annex I.*

#### ii. Regional cooperation in this area<sup>2</sup>

#### iii. If applicable, financing measures in this area at national level, including EU support and the use of EU funds



# Lithuanian NECP 2021-2030 (288 pages)



- Under EU Regulation 2018/2019
- Approved in 2019
- Update required by June 30, 2024

\*European Commission guidelines for updating the NECPs. In accordance with Article 14 of EU Regulation 2018/1999, the NECPs are to be updated by 30 June 2024 (draft version for the European Commission: 30 June 2023)

## The NECPs include the implementation of the following strategies:

National Energy Independence Strategies (NENS)

National climate change strategy (agenda from 2021 onwards)

## The main parts of the NECPs are:

Energy efficiency

Energy security

The internal energy market

Research, innovation and competitiveness

Decarbonisation (decarbonisation)

## EC requirements for the revision of the NECPs\*

Increased focus on energy security

Increased ambitions in the areas of energy and climate change (Fit for 55, RePowerEU packages, etc.)

Ensure a just and fair energy transformation and climate change management

# Revision of NECP

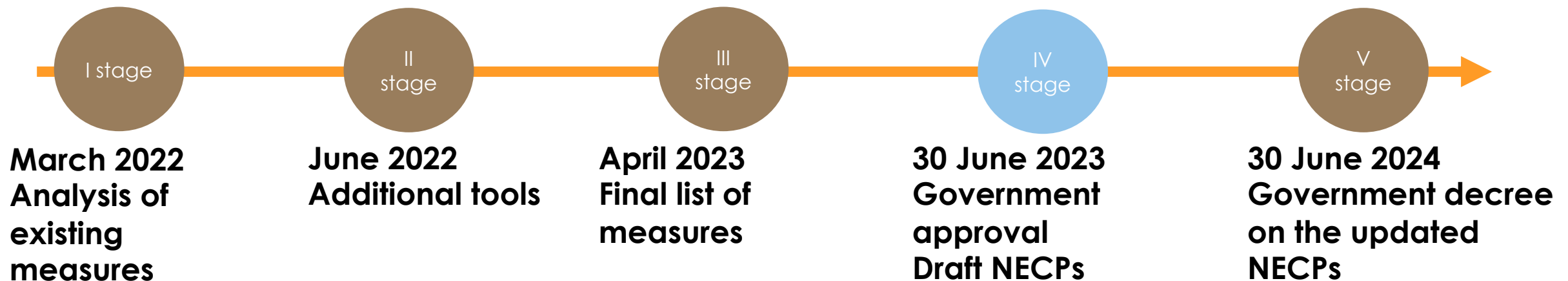
**8 working groups**  
**300 soc. partners,**  
**including:**  
**The 5 main branch**  
**ministries**  
**3 agencies**  
**4 teams of**  
**consultants**

**~600 offers received**  
**~300 measures**  
**selected**

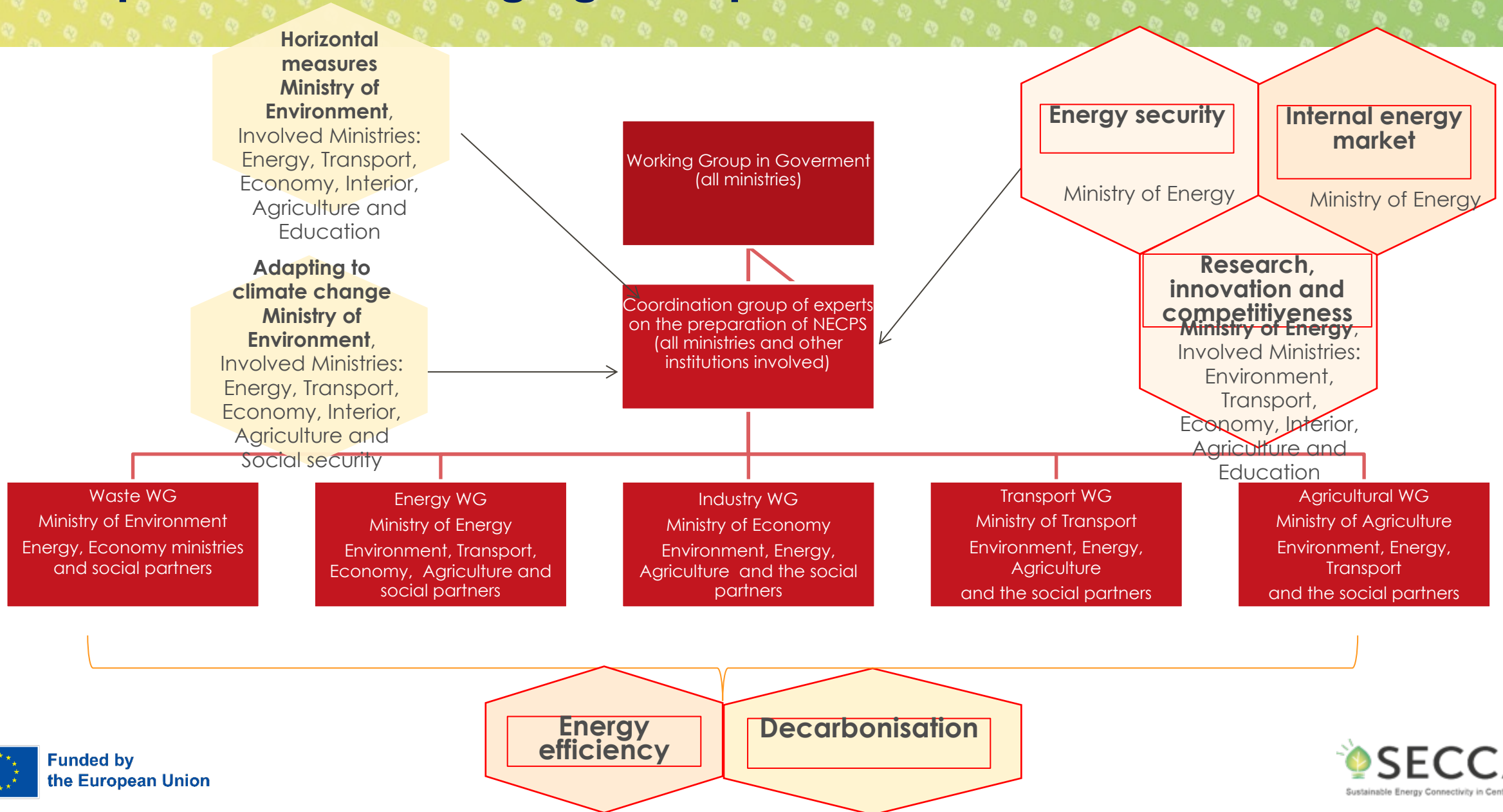
**Modeling performed**  
**Selected 126 of the**  
**most effective**  
**additional tools**

**Upcoming works:**  
**Preparation of the**  
**textual part**  
**Public and regional**  
**consultations**  
**Macroeconomic**  
**assessment of measures**  
**Submission to the**  
**European Commission**

- Strategic Environmental Impact Assessment (SEA)
- Comments and corrections from the European Commission



# The process of managing the update of NECPs



# Hints for drafting NECP

- **Main recommendation is to use Guidelines for NECP:**
  - Keep the descriptions and numbering from the Guidelines in narrative part;
  - Use the same coding, description and planned budget for each measure from the PAM;
  - Mark parts which must be filled by other institutions;
  - Identify part where information from modeling is needed.
- **Example of NECP of other country:**
  - Agree on example of one or two country NECP for preparation of narrative part. Romanian example is one of detailed ones;
  - Use similar tables and graphics.
- **Information from other documents and studies:**
  - Use or provide information from legal documents for description of the existing system or legal framework;
  - Provided information should be short and detailed.

# Preparation of narrative part

- **Overview of the system and the current policy framework**
- Information from the strategies and studies
- **Identifying targets till 2030**
- Short information about baseline and previous period
- Possible targets and investments needed
- **Description of each dimension**
- Set inter-institutional working group with main responsible ministries
- Indicate dimensions or parts for which each ministry or agency is responsible for

**THANK YOU!**

A GOAL

WITHOUT A

PLAN IS JUST

A DREAM.

-dave ramsey



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the European Union