Study evaluating the current energy efficiency policy framework in the EU and providing orientation on policy options for realising the cost-effective energy-efficiency/saving potential until 2020 and beyond

Country Annex 4: Summary of Results

Report on behalf of DG ENER

Sibylle Braungardt, Wolfgang Eichhammer (Project Coordinator), Rainer Elsland, Tobias Fleiter, Marian Klobasa, Michael Krail, Ben Pfluger; Matthias Reuter, Barbara Schloemann, Frank Sensfuss, Sohaib Tariq, Fraunhofer Institute for Systems and Innovation Research ISI

Lukas Kranzl, TU Vienna

Silvia Dovidio, Paolo Gentili, Pricewaterhouse-Coopers PwC

Karlsruhe/Vienna/Rome, 19 September 2014 (revised)
Country Annex Summary of Results

How to read this annex:

For each country this annex includes 4 figures:

- Two figures showing a comparison of different PRIMES projections\(^1\), statistical data from Eurostat and results of the modelling analysis for six different scenarios for 2020 for final and primary energy consumption. Also shown are the results of the bottom-up policy analysis and the decomposition analysis for 2020. Each of these figures includes a line marking the corresponding EED target\(^2\) for each country and the overall 20% reduction target for EU27.

- Two figures showing the PRIMES projections (if available) compared to the results of the modelling analysis for the year 2030. The EED target is indicated in these figures as well.

The percentage scale in the middle of the graph uses the same metrics as for the 2020 target that is percentage reduction compared to the PRIMES 2007 baseline.

Abbreviations used in the figures of this annex:

PRIMES: Different PRIMES projections
Eurostat: Statistical data
MA: Modelling analysis with 3 measure-based scenarios (Base_NoEA, Base_inclEA, AM) and 3 potential scenarios (HPI, LPI, NE)
PA: Bottom-up policy analysis
DA: Decomposition analysis

\(^1\) For EU28 only projections from PRIMES2013 are available

\(^2\) [http://ec.europa.eu/energy/efficiency/eed/reporting_en.htm](http://ec.europa.eu/energy/efficiency/eed/reporting_en.htm) Note: The target for EU27 does not match the sum of targets given for the member states
EU28 PRIMES projections Eurostat Results of this study

-0%
-5%
-10%
-15%
-25%
-30%
-35%

Primary energy [Mtoe]

1079 1179 1279 1379 1479 1579 1679 1779 1879 1979


2020 Modelling Analysis 2020 Policy Analysis 2020 Decompo Analysis


Results of this study

Final energy [Mtoe]

EU28 PRIMES projections Eurostat

EED Target

Primes2013

Eurostat

MA: Base_noEA

MA: Base_inclEA

MA: AM

MA: LPI

MA: HPI

PA (full measure implementation)

PA (implementation gaps)

MA: NE

MA: HPI

DA (savings rate from low-growth period 2008-2012; 2007 weather)

DA (savings rate from average-growth period; 2007 weather)
Results of this study

PRIMES projections Eurostat

Final energy [Mtoe]

EU27

EED Target

Final energy [Mtoe]

1388
1288
1188
1088
988
888
788


PA (full measure implementation)

DA (savings rate from low-growth period 2008-2012; 2007 weather)

DA (savings rate from low-growth period 2008-2012; 2012 weather)

DA (savings rate from average-growth period; 2007 weather)

MA: Base_noEA

MA: Base_incEA

MA: AM

MA: LPI

MA: HPI

MA: NE

PA (implementation gaps)
EED Target:
- 0%
- 5%
- 10%
- 15%
- 20%
- 25%
- 30%
- 35%

Primary energy [Mtoe]

EU27 PRIMES projections
Eurostat

Results of this study
- PRIMES2007
- PRIMES2007, with activities from PRIMES 2009
- PRIMES2009
- PRIMES2009, with activities from PRIMES 2013
- PRIMES2009, with activities from PRIMES 2013 + RES 2020 target achieved
- PRIMES2013
- Eurostat

MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE

Results of this study

Eurostat
PRIMES projections

Primary energy [Mtoe]
Results of this study

AT

PRIMES projections
Eurostat
Primes2007
Primes2007, with activities from PRIMES 2009
Primes2009
Primes2009, with activities from PRIMES 2013
Primes2009, with activities from PRIMES 2013 + RES
2020 target achieved
Primes2013
Eurostat
MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE
PA (implementation gaps)
PA (full measure implementation)
DA (savings rate from low-growth period 2008-2012; 2012 weather)
DA (savings rate from low-growth period 2008-2012; 2007 weather)
DA (savings rate from average-growth period; 2007 weather)

Primary energy [Mtoe]


BE PRIMES projections Eurostat Results of this study

EED target -20%
-15%
-10%
-5%
0%
Results of this study

Primary energy [Mtoe]

PRIMES projections
Eurostat

EED Target


-0%  -5%  -10%  -15%  -20%  -25%  -30%  -35%

Primes2007
Primes2007, with activities from PRIMES 2009
Primes2009
Primes2009, with activities from PRIMES 2013
Primes2009, with activities from PRIMES 2013 + RES 2020 target achieved
Primes2013
Eurostat

MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE
Results of this study - 0% - 5% - 10% - 15% - 20% - 25% - 30% - 35%
BG
PRIMES projections
Eurostat
Results of this study

Primary energy [Mtoe]

- Primes2007
- Primes2007, with activities from PRIMES 2009
- Primes2009
- Primes2009, with activities from PRIMES 2013
- Primes2009, with activities from PRIMES 2013 + RES
- 2020 target achieved
- Primes2013
- Eurostat

- MA: Base_noEA
- MA: Base_inclEA
- MA: AM
- MA: LPI
- MA: HPI
- MA: NE
- PA (implementation gaps)
- PA (full measure implementation)
- DA (savings rate from low-growth period 2008-2012; 2012 weather)
- DA (savings rate from low-growth period 2008-2012; 2007 weather)
- DA (savings rate from average-growth period; 2007 weather)
**PRIMES projections**

**Eurostat**

**Results of this study**

- **BG**

- **Primes2007**
- **Primes2007, with activities from PRIMES 2009**
- **Primes2009**
- **Primes2009, with activities from PRIMES 2013**
- **Primes2013**
- **Eurostat**
- **MA: Base_noEA**
- **MA: Base_inclEA**
- **MA: AM**
- **MA: LPI**
- **MA: HPI**
- **MA: NE**
- **PA (implementation gaps)**
- **PA (full measure implementation)**
- **DA (savings rate from low-growth period 2008-2012; 2012 weather)**
- **DA (savings rate from low-growth period 2008-2012; 2007 weather)**
- **DA (savings rate from average-growth period; 2007 weather)**
22

<table>
<thead>
<tr>
<th>CY</th>
<th>PRIMES projections</th>
<th>Eurostat</th>
<th>Results of this study</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Primes2007
- Primes2007, with activities from PRIMES 2009
- Primes2009
- Primes2009, with activities from PRIMES 2013
- Primes2009, with activities from PRIMES 2013 + RES
- 2020 target achieved
- Primes2013
- Eurostat

- MA: Base_noEA
- MA: Base_inclEA
- MA: AM
- MA: LPI
- MA: HPI
- MA: NE
- PA (implementation gaps)
- PA (full measure implementation)

- DA (savings rate from low-growth period 2008-2012; 2012 weather)
- DA (savings rate from low-growth period 2008-2012; 2007 weather)
- DA (savings rate from average-growth period; 2007 weather)
Results of this study

PRIMES projections

Final energy [Mtoe]

EED target

Primes2007

Primes2007, with activities from PRIMES 2009

Primes2009

Primes2009, with activities from PRIMES 2009

Primes2013

Eurostat

Ma: Base_noEA

Ma: Base_inclEA

Ma: AM

Ma: LPI

Ma: HPI

Ma: NE

Pa (implementation gaps)

Pa (full measure implementation)

Da (savings rate from low-growth period 2008-2012; 2012 weather)

Da (savings rate from low-growth period 2008-2012; 2007 weather)

Da (savings rate from average-growth period; 2007 weather)
PRIMES projections

Eurostat

Results of this study

Primary energy [Mtoe]

CY

MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE

Primes2007
Primes2007, with activities from PRIMES 2009
Primes2009
Primes2009, with activities from PRIMES 2013
Primes2009, with activities from PRIMES 2013 + RES 2020 target achieved
Primes2013
Eurostat

EED Target

-0%
-5%
-10%
-15%
-20%
-25%
-30%
-35%
CZ

PRIMES projections
Eurostat

Results of this study

- Primes2007
- Primes2007, with activities from PRIMES 2009
- Primes2009
- Primes2009, with activities from PRIMES 2013
- Primes2009, with activities from PRIMES 2013 + RES
- 2020 target achieved
- Primes2013
- Eurostat

MA: Base_noEA
MA: Base_incEA
MA: AM
MA: LPI
MA: HPI
MA: NE

PA (implementation gaps)
PA (full measure implementation)

DA (savings rate from low-growth period 2008-2012; 2012 weather)
DA (savings rate from low-growth period 2008-2012; 2007 weather)
DA (savings rate from average-growth period; 2007 weather)
Czech Republic

PRIMES projections
Eurostat

Results of this study

Final energy [Mtoe]

-15%
-20%
-25%
-30%
-35%


Primes2007
Primes2007, with activities from PRIMES 2009
Primes2009
Primes2009, with activities from PRIMES 2013
Primes2013
Eurostat
MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE
PA (implementation gaps)
PA (full measure implementation)
DA (savings rate from low-growth period 2008-2012; 2012 weather)
DA (savings rate from low-growth period 2008-2012; 2007 weather)
DA (savings rate from average-growth period; 2007 weather)

Results of this study
PRIMES projections
Eurostat
Results of this study

CZ

Primary energy [Mtoe]

2030 Modelling Analysis

-35%
-30%
-25%
-20%
-15%
-10%
-5%
0%
5%
10%
15%
20%
25%
30%
35%
40%
42
47
52
57

Primes2007
Primes2007, with activities from PRIMES 2009
Primes2009
Primes2009, with activities from PRIMES 2013
Primes2009, with activities from PRIMES 2013 + RES 2020 target achieved
Primes2013
Eurostat

MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE
Final energy [Mtoe]

PRIMES projections
Eurostat

Results of
this study

CZ

PRIMES2007
PRIMES2007, with activities from PRIMES 2009
PRIMES2009
PRIMES2009, with activities from PRIMES 2013
PRIMES2009, with activities from PRIMES 2013 + RES 2020 target achieved
PRIMES2013
Eurostat

MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: HPI
MA: NE
<table>
<thead>
<tr>
<th>Year</th>
<th>Final energy [Mtoe]</th>
<th>DK</th>
<th>PRIMES projections</th>
<th>Eurostat</th>
<th>Results of this study</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1995</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2005</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2020</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**
- **Blue line:** Primes2007
- **Red line:** Primes2007, with activities from PRIMES 2009
- **Green line:** Primes2009
- **Orange line:** Primes2009, with activities from PRIMES 2013
- **Purple line:** Primes2013
- **Green line:** Eurostat
- **Purple filled square:** MA: Base_noEA
- **Blue filled square:** MA: Base_inclEA
- **Orange filled square:** MA: AM
- **Green filled square:** MA: LPI
- **Red filled square:** MA: HPI
- **Gray filled square:** MA: NE
- **Cyan filled triangle:** PA (implementation gaps)
- **Orange filled triangle:** PA (full measure implementation)
- **Yellow filled triangle:** DA (savings rate from low-growth period 2008-2012; 2012 weather)
- **Green filled triangle:** DA (savings rate from low-growth period 2008-2012; 2007 weather)
- **Purple filled triangle:** DA (savings rate from average-growth period; 2007 weather)
PRIMES projections
Eurostat

Results of
this study

DK

Primary energy [Mtoe]

10 12 14 16 18 20 22


2020 Modelling Analysis

-35%

-30%

-25%

-20%

-15%

-10%

-5%

0%

EED Target

Primes2007
Primes2007, with activities from PRIMES 2009
Primes2009
Primes2009, with activities from PRIMES 2013
Primes2009, with activities from PRIMES 2013 + RES 2020 target achieved
Primes2013
Eurostat

MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE
PRIMES projections
Eurostat

Results of this study

Primary energy [Mtoe]
Final energy [Mtoe]

PRIMES projections
Eurostat
Results of this study

- Primes2007
- Primes2007, with activities from PRIMES 2009
- Primes2009
- Primes2009, with activities from PRIMES 2013
- Primes2009, with activities from PRIMES 2013 + RES 2020 target achieved
- Primes2013
- Eurostat

- MA: Base_noEA
- MA: Base_inclEA
- MA: AM
- MA: HPI
- MA: NE

EED Target

-0%
-5%
-10%
-15%
-20%
-25%
-30%
-35%


2020 Modelling Analysis
Results of this study

PRIMES projections

Primary energy [Mtoe]

- FI

- Eurostat

- PRIMES 2007
- PRIMES 2007, with activities from PRIMES 2009
- PRIMES 2009
- PRIMES 2009, with activities from PRIMES 2013
- PRIMES 2009, with activities from PRIMES 2013 + RES 2020 target achieved
- PRIMES 2013
- Eurostat

- MA: Base_noEA
- MA: Base_inclEA
- MA: AM
- MA: LPI
- MA: HPI
- MA: NE

2020 Modelling Analysis
DE PRIMES projections Eurostat Results of this study

Primary energy [Mtoe]

- Primes2007
- Primes2007, with activities from PRIMES 2009
- Primes2009
- Primes2009, with activities from PRIMES 2013
- Primes2009, with activities from PRIMES 2013 + RES 2020 target achieved
- Primes2013
- Eurostat

- MA: Base_noEA
- MA: Base_inclEA
- MA: AM
- MA: LPI
- MA: HPI
- MA: NE

- PA (implementation gaps)
- PA (full measure implementation)

- DA (savings rate from low-growth period 2008-2012; 2012 weather)
- DA (savings rate from low-growth period 2008-2012; 2007 weather)
- DA (savings rate from average-growth period; 2007 weather)
Results of this study
PRIMES projections
Eurostat

Results of this study

Final energy [Mtoe]
PRIMES projections

Eurostat

Results of this study

- Primes2007
- Primes2007, with activities from PRIMES 2009
- Primes2009
- Primes2009, with activities from PRIMES 2009, with activities from PRIMES 2013
- Primes2009, with activities from PRIMES 2013 + RES
- Primes2013
- 2020 target achieved

Eurostat

- MA: Base_noEA
- MA: Base_inclEA
- MA: AM
- MA: LPI
- MA: HPI
- MA: NE

PA (implementation gaps)

- PA (full measure implementation)

DA (savings rate from low-growth period 2008-2012; 2012 weather)

DA (savings rate from low-growth period 2008-2012; 2007 weather)

DA (savings rate from average-growth period; 2007 weather)
PRIMES projections
Eurostat

Results of this study

Primary energy [Mtoe]
19
18
17
16
15
14
13
12
11
10

IE

-0%
-5%
-10%
-15%
-20%
-25%
-30%
-35%

Primes2007
Primes2007, with activities from PRIMES 2009
Primes2009
Primes2009, with activities from PRIMES 2013
Primes2009, with activities from PRIMES 2013 + RES 2020 target achieved
Primes2013
Eurostat

MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE

Results of this study
IE

PRIMES projections
Eurostat

Results of this study

Final energy [Mtoe]

Primes2007
Primes2007, with activities from PRIMES 2009
Primes2009
Primes2009, with activities from PRIMES 2013
Primes2009, with activities from PRIMES 2013 + RES 2020 target achieved
Primes2013
Eurostat

MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: HPI
MA: HPI
MA: NE
IT
PRIMES projections
Eurostat

Results of this study

Primary energy [Mtoe]


Primes2007
Primes2009
Primes2009, with activities from PRIMES 2009
Primes2009, with activities from PRIMES 2013
Primes2009, with activities from PRIMES 2013 + RES
2020 target achieved
Primes2013
Eurostat
MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE
PA (implementation gaps)
PA (full measure implementation)

DA (savings rate from low-growth period 2008-2012; 2012 weather)
DA (savings rate from low-growth period 2008-2012; 2007 weather)
DA (savings rate from average-growth period; 2007 weather)
LV
PRIMES projections
Eurostat
Results of
this study

Final energy [Mtoe]

Primes2007
Primes2007, with activities from PRIMES 2009
Primes2009
Primes2009, with activities from PRIMES 2013
Primes2013
Eurostat
MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE
PA (implementation gaps)
PA (full measure implementation)
DA (savings rate from low-growth period 2008-2012; 2012 weather)
DA (savings rate from low-growth period 2008-2012; 2007 weather)
DA (savings rate from average-growth period; 2007 weather)
PRIMES projections
Eurostat
Results of this study

-0%
-5%
-10%
-15%
-20%
-25%
-30%

LV

Final energy [Mtoe]

2030 Modelling Analysis
LT
PRIMES projections
Eurostat
Results of this study

Final energy [Mtoe]

11
10
9
8
7
6
5
4
3


Primes2007
Primes2009
Primes2009, with activities from PRIMES 2009
Primes2009, with activities from PRIMES 2013
Primes2013
Eurostat
MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE
PA (implementation gaps)
PA (full measure implementation)
DA (savings rate from low-growth period 2008-2012; 2012 weather)
DA (savings rate from low-growth period 2008-2012; 2007 weather)
DA (savings rate from average-growth period; 2007 weather)
PRIMES projections
Eurostat
Results of this study

Primary energy [Mtoe]


MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE

Primes2007
Primes2007, with activities from PRIMES 2009
Primes2009
Primes2009, with activities from PRIMES 2013
Primes2009, with activities from PRIMES 2013 + RES 2020 target achieved
Primes2013
Eurostat

Results of this study
Results of this study

PRIMES projections
Eurostat

Final energy [Mtoe]


EU Energy Directive (EED) targets

Primes2007
Primes2007, with activities from PRIMES 2009
Primes2009
Primes2009, with activities from PRIMES 2013
Primes2013
Eurostat
MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE
PA (implementation gaps)
PA (full measure implementation)
DA (savings rate from low-growth period 2008-2012; 2012 weather)
DA (savings rate from low-growth period 2008-2012; 2007 weather)
DA (savings rate from average-growth period; 2007 weather)
Results of this study

PRIMES projections

Eurostat

Primary energy [Mtoe]
PRIMES projections  
Eurostat

Results of this study

- 0%
- 5%
- 10%
- 15%
- 20%
- 25%

Final energy [Mtoe]

Primes2007
Primes2007, with activities from PRIMES 2009
Primes2009
Primes2009, with activities from PRIMES 2013
Primes2009, with activities from PRIMES 2013 + RES 2020 target achieved
Primes2013
Eurostat

MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: HPI
MA: NE

2030 Modelling Analysis
### PRIMES projections

- **MT**: PRIMES projections for final energy [Mtoe]
- **Eurostat**: Energy consumption data from Eurostat

### Results of this study

- **Primes2007**: Baseline scenario with no energy access
- **Primes2007, with activities from PRIMES 2009**: Baseline scenario with additional activities from PRIMES 2009
- **Primes2009**: Baseline scenario with activities from PRIMES 2009
- **Primes2009, with activities from PRIMES 2013**: Baseline scenario with activities from PRIMES 2013
- **Primes2013**: Baseline scenario with activities from PRIMES 2013
- **Eurostat**: Final energy consumption from Eurostat

### Model Components

- **MA**: Different model components:
  - **MA: Base_noEA**: Base model without energy access
  - **MA: Base_inclEA**: Base model with energy access
  - **MA: AM**: Adaptation measures
  - **MA: LPI**: Long-term perspective
  - **MA: HPI**: High-protection instruments
  - **MA: NE**: Normative elements
- **DA**: Different savings rates:
  - **DA (savings rate from low-growth period 2008-2012; 2012 weather)**
  - **DA (savings rate from low-growth period 2008-2012; 2007 weather)**
  - **DA (savings rate from average-growth period; 2007 weather)**
- **PA**: Different implementation measures:
  - **PA (implementation gaps)**
  - **PA (full measure implementation)**

### Dates

Results of this study

-5%
-10%
-15%
-20%
-25%
-30%
-35%

Final energy [Mtoe]
NL
PRIMES projections
Eurostat
Results of this study

Final energy [Mtoe]

-35%
-30%
-25%
-20%
-15%
-10%
-5%
0%


Primes2007
Primes2009
Primes2009, with activities from PRIMES 2009
Primes2013
Primes2013, with activities from PRIMES 2013
Eurostat
MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: AM
MA: LPI
MA: HPI
MA: NE
PA (implementation gaps)
PA (full measure implementation)
DA (savings rate from low-growth period 2008-2012; 2012 weather)
DA (savings rate from low-growth period 2008-2012; 2007 weather)
DA (savings rate from average-growth period; 2007 weather)
NL

PRIMES projections

Eurostat

Results of this study

-0%
-5%
-10%
-15%
-20%

Primary energy [Mtoe]


PRIMES2007
PRIMES2007, with activities from PRIMES 2009
PRIMES2009
PRIMES2009, with activities from PRIMES 2013
PRIMES2009, with activities from PRIMES 2013 + RES 2020 target achieved
PRIMES2013
Eurostat

MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE
Primes2007
Primes2007, with activities from PRIMES 2009
Primes2009
Primes2009, with activities from PRIMES 2013
Primes2009, with activities from PRIMES 2013 + RES
2020 target achieved
Primes2013
Eurostat
MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE
PA (implementation gaps)
PA (full measure implementation)
DA (savings rate from low-growth period 2008-2012; 2012 weather)
DA (savings rate from low-growth period 2008-2012; 2007 weather)
DA (savings rate from average-growth period; 2007 weather)
PRIMES projections, Eurostat, with activities from PRIMES 2009, PRIMES 2013 + RES 2020 target achieved.

Results of this study
Results of this study
Results of this study:

- Primes2007
- Primes2007, with activities from PRIMES 2009
- Primes2009
- Primes2009, with activities from PRIMES 2013
- Primes2009, with activities from PRIMES 2013 + RES 2020 target achieved

PRIMES projections across different years:

- Primes2007
- Primes2009
- Primes2013

Energy projections are shown for different energy targets and scenarios, including:

- EU: Base_noEA
- EU: Base_inclEA
- EU: AM
- EU: HPI
- EU: NE

The graph illustrates the progression of final energy [Mtoe] from 1990 to 2050, with specific notes on the achievement of RES 2020 targets for Primes2009.
PRIMES projections
Eurostat

Results of this study

Final energy [Mtoe]

- Primes2007
- Primes2007, with activities from PRIMES 2009
- Primes2009
- Primes2009, with activities from PRIMES 2013
- Primes2013
- Eurostat
- MA: Base_noEA
- MA: Base_inclEA
- MA: AM
- MA: LPI
- MA: HPI
- MA: NE
- PA (implementation gaps)
- PA (full measure implementation)
- DA (savings rate from low-growth period 2008-2012; 2012 weather)
- DA (savings rate from low-growth period 2008-2012; 2007 weather)
- DA (savings rate from average-growth period; 2007 weather)
PRIMES projections
Eurostat
Results of this study

-0% -5% -10% -15% -20% -25% -30% -35%

Primary energy [Mtoe]


PRIME2007
PRIME2007, with activities from PRIMES 2009
PRIME2009
PRIME2009, with activities from PRIMES 2013
PRIME2009, with activities from PRIMES 2013 + RES 2020 target achieved
PRIME2013
Eurostat
MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE

Results of this study
SK

PRIMES projections
Eurostat

Results of this study

Primary energy [Mtoe]

-40%
-35%
-30%
-25%
-20%
-15%
-10%
-5%
0%

2030 Modelling Analysis

Primes2007
Primes2007, with activities from PRIMES 2009
Primes2009
Primes2009, with activities from PRIMES 2013
Primes2009, with activities from PRIMES 2013 + RES 2020 target achieved
Primes2013
Eurostat
MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE

Results of this study
SK

PRIMES projections
Eurostat

Results of this study

-0%
-5%
-10%
-15%
-20%
-25%
-30%
-35%

Final energy [Mtoe]

Primes2007
Primes2007, with activities from PRIMES 2009
Primes2009
Primes2009, with activities from PRIMES 2013
Primes2009, with activities from PRIMES 2013 + RES 2020 target achieved
Primes2013
Eurostat

MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: HPI
MA: NE
Results of this study

ES

PRIMES projections

Eurostat

Primes2007

Primes2007, with activities from PRIMES 2009

Primes2009

Primes2009, with activities from PRIMES 2013

Primes2013

Eurostat

MA: Base_noEA

MA: Base_inclEA

MA: AM

MA: LPI

MA: HPI

MA: NE

PA (implementation gaps)

PA (full measure implementation)

DA (savings rate from low-growth period 2008-2012; 2012 weather)

DA (savings rate from low-growth period 2008-2012; 2007 weather)

DA (savings rate from average-growth period; 2007 weather)
PRIMES projections
Eurostat
Results of this study

Primary energy [Mtoe]

MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE

PRIMES2007
PRIMES2007, with activities from PRIMES 2009
PRIMES2009
PRIMES2009, with activities from PRIMES 2013
PRIMES2009, with activities from PRIMES 2013 + RES 2020 target achieved
PRIMES2013
Eurostat

EED Target

ES
ES

PRIMES projections
Eurostat

Results of this study

Final energy [Mtoe]

PRIMES2007
PRIMES2007, with activities from PRIMES 2009
PRIMES2009
PRIMES2009, with activities from PRIMES 2013
PRIMES2009, with activities from PRIMES 2013 + RES 2020 target achieved
PRIMES2013
Eurostat

MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: HPI
MA: NE

PRIMES projections
Eurostat

Results of this study

Final energy [Mtoe]

PRIMES2007
PRIMES2007, with activities from PRIMES 2009
PRIMES2009
PRIMES2009, with activities from PRIMES 2013
PRIMES2009, with activities from PRIMES 2013 + RES 2020 target achieved
PRIMES2013
Eurostat

MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: HPI
MA: NE
Results of this study

Primary energy [Mtoe]


PRIMES projections
Eurostat

SE

Primes2007
Primes2009
Primes2009, with activities from PRIMES 2009
Primes2009, with activities from PRIMES 2009, with activities from PRIMES 2013
Primes2009, with activities from PRIMES 2013 + RES
2020 target achieved
Primes2013
Eurostat
MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE
PA (implementation gaps)
PA (full measure implementation)
DA (savings rate from low-growth period 2008-2012; 2012 weather)
DA (savings rate from low-growth period 2008-2012; 2007 weather)
DA (savings rate from average-growth period; 2007 weather)
PRIMES projections
Eurostat

Results of this study

Primary energy [Mtoe]

-35%
-30%
-25%
-20%
-15%
-10%
-5%
0%

2020 Modelling Analysis

SE
Primary energy [Mtoe]
PRIMES projections
Eurostat

Results of this study

UK

2020 Modelling Analysis
2020 Policy Analysis
2020 Decom Comp Analysis

Final energy [Mtoe]

172
162
152
142
132
122
112
102
92

1990
1995
2000
2005
2010
2015
2020

PRIMES2007
PRIMES2009
PRIMES2009, with activities from PRIMES 2009
PRIMES2013
Eurostat
MA: Base_noEA
MA: Base_inclEA
MA: AM
MA: LPI
MA: HPI
MA: NE
PA (implementation gaps)
PA (full measure implementation)
DA (savings rate from low-growth period 2008-2012; 2012 weather)
DA (savings rate from low-growth period 2008-2012; 2007 weather)
DA (savings rate from average-growth period; 2007 weather)