The Belgian National Energy and Climate Plan 2030
NEKP-PNEC

IEA Technical Day, 11 June 2019

http://economie.fgov.be
OVERVIEW

1. General EU context
2. BE coordination (SG Enover-CNC)
3. Key messages draft NECP 31/12/18
4. Consultation process
5. Next steps

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1. General EU Context

- Requirement under Governance Regulation (Chapter 2 & Annex I) 2018/1999, OJ - 21/12/18
- Template in accordance with 5 dimensions Energy Union: Decarbonisation (emissions and renewable energy), Energy Efficiency, Security of supply, Internal market, and Innovation, competition and Research and development
- Time horizon: 2021-2030 & long-term perspectives 2040/2050
- Deadlines: 1st draft plans by 31/12/18 – final plans by 31/12/19

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2. Internal BE coordination

- **Steering group Enover-CNC NECP2030**
  - Co-pilotship Energy/Climate: K. Geens – SPF-FOD Econ./J. De Schrijver – LNE
  - Secretariat: Enover-NKC 2030 Concere-CNC@economie.fgov.be
  - Composition: administrations 4 + 4 + substitutes
  - Pilots per dimension
  - Main tasks: cfr. Work methodology 2016

- **Sub working groups**
  - All kinds of Enover and CNC WPs (EE, RES, Balances, …) + Belset
  - Part B: Ad hoc WG Enover-CNC Projections
  - COMM WG since January 2019

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3. Key messages draft NECP 31/12/18

- Integration process & buildings blocks
- Publication 11/01/19 > NECP + all annexes
- Key messages per dimension
Integration process

Enover-Concere

NECP Steering Groupe

NKC-CNC
Integrated draft NECP

entity-specific plans as the basis for the final integrated draft plan
- Interfederal Energy Pact

- Entity-specific plans
  with as basis the different regional processes:

- Federal process
  - Federal Energy Strategy, 30/3/18
  - Draft Federal contribution, 30/11/18
Publication draft BE NECP
since 11/01/19

- https://economie.fgov.be/nl/publicaties/ontwerp-van-geintegreerd
- https://economie.fgov.be/fr/publications/projet-de-plan-national
- https://www.cnc-nkc.be/nl/reports
- https://www.cnc-nkc.be/fr/reports
<table>
<thead>
<tr>
<th></th>
<th>2020</th>
<th>2030</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BE</strong></td>
<td>-15%</td>
<td>-35%</td>
</tr>
<tr>
<td><strong>RBC</strong></td>
<td>-8.8%</td>
<td>-32%</td>
</tr>
<tr>
<td><strong>WR</strong></td>
<td>-14.7%</td>
<td>-37%</td>
</tr>
<tr>
<td><strong>FR</strong></td>
<td>-15.7%</td>
<td>-35%</td>
</tr>
<tr>
<td><strong>FED</strong></td>
<td>Continuation PAMs + New PAMs</td>
<td>Continuation PAMs + New PAMs</td>
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</table>
Objectives

- BE contribution to EU objective of 32% = 18.3%

- Federal contribution:
  - Offshore: 4GW
  - Blending percentage biofuels: 14%*

* In NEKP

PAMs

- Thread = costs efficiency

- Cf. Entity-specific plans
  - Taking into account different geographical, socio-econ. and technol. potential
RES share in Gross Final energy consumption (WAM scenario)

- Transport (RES-T): 20.6% (2030), 6.9% (2016)
- Power (RES-E): 40.4% (2030), 15.8% (2016)
- Heating and cooling (RES-H): 12.7% (2030), 8.1% (2016)
Decarbonisation – Renewable Energy
Contribution entities

- Flanders: 39%
- Wallonia: 37%
- FED (Offshore): 22%
- RBC: 2%

Contribution entity specific plans
Objectives

- BE contribution to EU objective of 32.5%:
  - 22% or 39 Mtoe primary energy consumption
  - 17% or 33.1 Mtoe final energy consumption with respect to Primes 2007

PAMs

- Cf. Entity-specific plans
- LT renovation strategy: cf. regional renovation strategies
- Art. 7: each region has his own policy, federally supporting and reinforcing policy

For comparison: for 2020 indicative objective of 18%
ENERGY EFFICIENCY

Primaire energieconsumptie

Finale energieconsumptie

39 Mtoe: -22%

33,1 Mtoe: -17%

Final energy consumption in 2030 vs 2015

<table>
<thead>
<tr>
<th>Sector</th>
<th>WEM</th>
<th>WAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industry</td>
<td>10.5%</td>
<td>6.2%</td>
</tr>
<tr>
<td>Residential</td>
<td>-2.6%</td>
<td>-19.6%</td>
</tr>
<tr>
<td>Tertiary</td>
<td>2.1%</td>
<td>-12.9%</td>
</tr>
<tr>
<td>Transport</td>
<td>5.0%</td>
<td>-11.6%</td>
</tr>
<tr>
<td>Total</td>
<td>4.6%</td>
<td>-7.7%</td>
</tr>
</tbody>
</table>
Objectives

- Policy focused on system adequacy within the framework of nuclear power phase-out (loss of 5.918 MW), and need to attract necessary investments (flexible production, interconnections, storage, DSM)

- Transition from low to high calorific gas > 1.2 million connections

PAMs

- Stake on power-to-x, new technologies such as hydrogen, electrification of transport

- Capacity Remuneration Mechanism 2022-2025

- Management radioactive waste
Objectives/Priorities

- EU Interconnection target figure electricity of 15% will be amply exceeded with planed interconnection rate of +-30% by 2030
- Energy transmission infrastructure:
  - Brabo - NL
  - Nemo – VK
  - Alegro – DE
- Market integration within framework of PLEF
- Roll out smart meters
- Flexibility energy system
- Energy poverty

PAMs

- Evaluations of existing electricity and gas infrastructures
- Continuation and reinforcement of regional collaboration within the framework of PLEF and NSEC
- Better coordinate demand and use, and attract right investments to obtain a complementary energy mix
- Policy to protect the consumer and energy poverty plans
Objectives/Priorities

- >= 3% R&D objective (as % of the GDP)
- EU: SET-plan > BE: BELSET platform

PAMs

- Investment tools/funds:
  - Energy Transition Funds
    - 20 million €/j up to 2030
  - National Investment pact:
    - 60 billion € up to 2030 for energy projects
  - Regional initiatives/ financing instruments
- Compet: Energy standard
4. Consultation process

National public consultation, 04/06/19 – 15/07/19

\[ Cf. \text{ article 10 of Regulation 2018/1999} \]
- [www.nationaalenergieklimaatplan.be](http://www.nationaalenergieklimaatplan.be)

Regional consultation

\[ \text{article 12 of Regulation 2018/1999} \]
- BE initiative “Regional Dialogue Energy-Climate” within Pentalateral Energy Forum (PLEF), June 2018
  - Benelux Declaration, June 2018
  - PLEF Declaration, December 2018
5. Next steps

Q1 – Q2 2019

- National public consultation
  - Common advice strategic advisory boards via FRDO*
  - Public consultation based on limited questionnaire

- Regional consultation
  - Bilateral consultations
  - PLEF regional dialogue
  - BE regional consultation

- EC recommendations

By 31/12/19 - 01/01/20

- Final BE NEKP
  - Benchmark dates as defined in work methodology
  - Adaptations taking into account adapted entity-specific plans, results of consultations, EC recommendations

- Long-term emissions strategy (art. 15) > no part of NEKP

*FRDO: Federale Raad voor Duurzame Ontwikkeling

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Any questions?

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