Renewables in the Slovak Transport Sector: Developments and Challenges

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GHG emissions from fuel in transport
(in thousand tonnes)
GHG emissions in the Slovak transport sector

- Slovakia is **on track** to reach its emission goals under the ESD (up to 13% in 2020 compared to 2005)
- GHG emissions from fuel combustion in transport **have been rising** steadily since 2014 (7.6 million tones reached in 2017)
- **Transport**: 16.3% share on total GHG emissions

<table>
<thead>
<tr>
<th>Vehicle fleet</th>
<th>1990</th>
<th>2016</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passenger cars</td>
<td>875,550</td>
<td>2,124,528</td>
<td>+142.65%</td>
</tr>
<tr>
<td>Light commercial vehicles</td>
<td>89,949</td>
<td>493,245</td>
<td>+448.36%</td>
</tr>
<tr>
<td>Consumption (PJ)</td>
<td>61,027.37</td>
<td>91,103.49</td>
<td>+49.28%</td>
</tr>
<tr>
<td>Emissions CO2 eq. (kt)</td>
<td>4,588.64</td>
<td>6,336.18</td>
<td>+38.08%</td>
</tr>
</tbody>
</table>
RES-T Share: 7.0% in 2017 (-1.5% compared to 2015, however, +0.2% compared to the NREAP’s 2017 interim trajectory) with the EU 2020 RES-T target set at 10%

- Slovak Government considered least active in the Visegard Group’s (V4) region
- biofuels: mandatory blending of biocomponents into transport fuels (shares defined by 2030) (6.9% for 2019, 8.2% for the period of 2022-2030) & tax regulation mechanism
- no hydrogen vehicles and no publicly accessible infrastructure
- negligible share of vehicles on alternative fuels (e.g., M1 category: EVs 951, 619 PHEVs)

- electro-mobility infrastructure network (Dec 2018):
  - 92 DC charging points (over 44 kW), 143 AC charging points (up to 44 kW)
  - By 2025: 1,500 points in total
Slovakia ranked 19th out of 22 evaluated European countries.
Relevant Policy Documents on Alternative Mobility in Slovakia

- National Policy for the Implementation of Infrastructure for Alternative Fuels in the Slovak Republic (2016)
- Action Plan on Electromobility Development (March 2019)
- Measures to Remove Barriers to the Sustainable Development of the Automotive Industry in Slovakia, Including the Supply Network (April 2019)
- & National Energy and Climate Plan (NECP; in progress)
Overview of the Latest Policy Developments

- **November 2018:** first ultra-fast charging stations for EVs opened
- **November 2018:** SK and CZ agreed on cooperation in the field of clean mobility
- **June 2019:** a founding agreement of the Slovak Battery Alliance (SBaA) signed
- **March 2019:** MŽP’s launched funding scheme on EVs for municipalities and regions
- **April 2019:** a grant of 6.9 million EUR from EU Funds on smart mobility obtained
- **May 2019:** Working Group on the Support of Industrial Battery Production in Slovakia at the Ministry of Economy created
- **June 2019:** green European Vehicle Numbers (EVN) for EVs and PHEVs approved by the Government
- **July 2019:** a funding scheme for municipalities and regions on AC charging stations launched
- **December 2019 (awaited):** a new subsidy scheme on EVs and PHEVs
I. Insufficient Professional Capacity and Lack of Communication

II. Problematic Conditions of Subsidy Drawing


IV. Investment Instability in the Sector of Biofuels

V. Slow Development of Electromobility

VI. Biofuels Disadvantaged Compared to Other RES-T Technologies

VII. Too Powerful Position of Oil Refineries in the V4 region
What to do next?

- **Slovakia has recorded significant developments** on its way towards improving deployment of low- and zero-emissions vehicles and enhancing the potential of energy storage in the last years.

- Nevertheless, **Slovakia should focus on the following priorities in the upcoming years:**
  - EU Commission (2019) recommends to Slovakia in the field of climate mitigation to take action on investment-related economic policy, *incl. transport and its sustainability in 2019-2020*
  - introduction of a practically non-existing **hydrogen vehicles market**
  - ensure a **proper implementation of Electromobility Action Plan** (2019-2020), especially charging infrastructure & shortened depreciation period for entrepreneurs
  - elaborate action plans on the development of **other alternative fuels**
  - ... ?
Thank you for your attention!
ideas into energy.
Content

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