

#mission2030 The new Austrian Climate and Energy Strategy

International multidisciplinary conference "Energy Efficiency policies toward 2030 – opportunities and challenges for Central Europe" Prague, 26 November 2018

Austrian Energy Agency Guenter Pauritsch 26 November, 2018



#mission2030

- prepared by the
 - Ministry for Sustainability*) and Tourism, and
 - Ministry for Transport, Innovation and Technology
- adopted in June 2018





Die österreichische Klima- und Energiestrategie

^{*)} change in organisation of Ministries: includes **energy** & mining, agriculture, forestry, **environment & climate**, water management, tourism

Document is available in English and German:

Link: <u>https://www.bmnt.gv.at/service/publikationen.html</u>

#mission2030

- National Climate and Energy Strategy
 - Timeframe until 2030
 - Longterm perspectives until 2050
- Main sectors of activity until 2030:
 - Buildings (3 Mt CO₂: from 8 to 5 Mt)
 - Transport (7,3 Mt CO₂: from 22.0 to 15.7 Mt))
 - Electricity supply
- Additional main sector from 2030 to 250:
 - Industry





#mission2030

Die österreichische Klima- und Energiestrategie



Phase-out of fossil fuels Full decarbonisation until 2050

- national heating strategy
 - phase-out of oil for heating
 - starting 2020 for new boilers
 - from 2025 on for replacements
 - greening the gas supply
 - production of 2 billion m³ green gas from residues
 - usage of existing gas infrastructure

Phase-out of fossil fuels Full decarbonisation until 2050

-5

Ladeplatz

nur für Elektrofahrzeuge

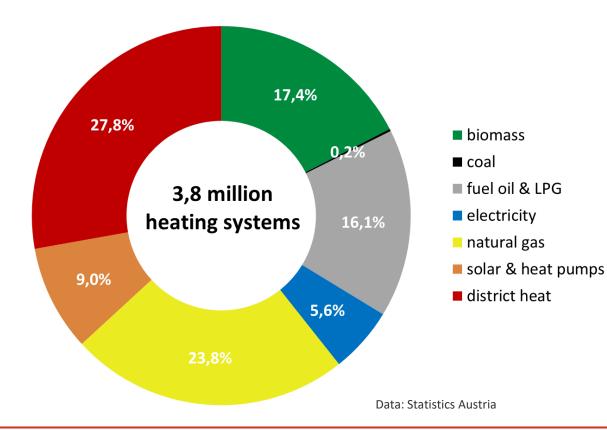
massive uptake of e-mobility

Phase-out of fossil fuels Full decarbonisation until 2050

shift to green hydrogen, electricity and renewables in industry after 2030

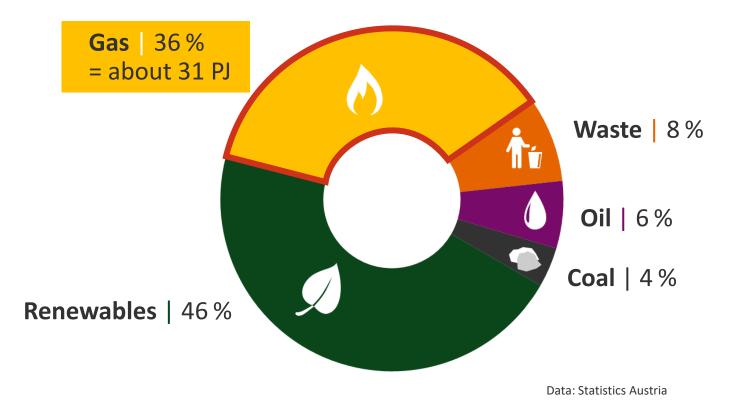
Market share of oil boilers 16% District heat + natural gas >50%





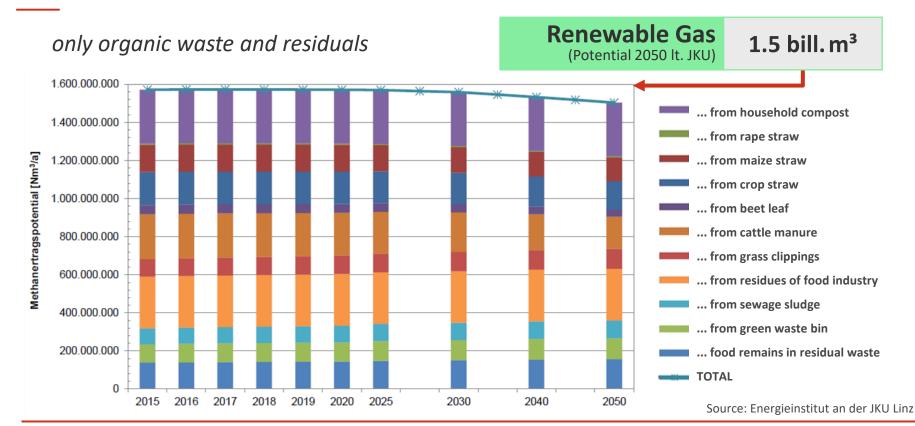


Gas is also crucial for the generation of district heat



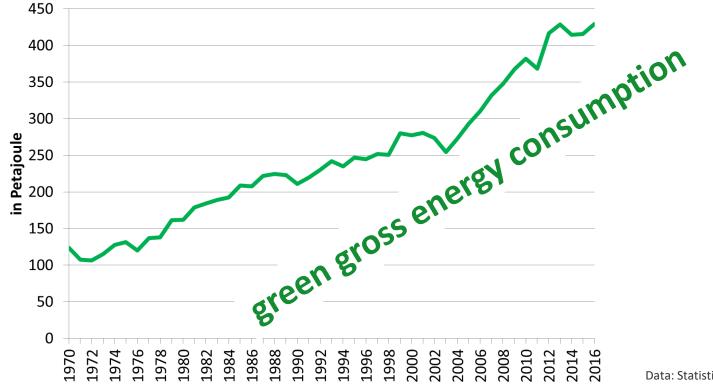
Roadmap Greening the Gas ressources & potential







All together: continuing the growth of green energy

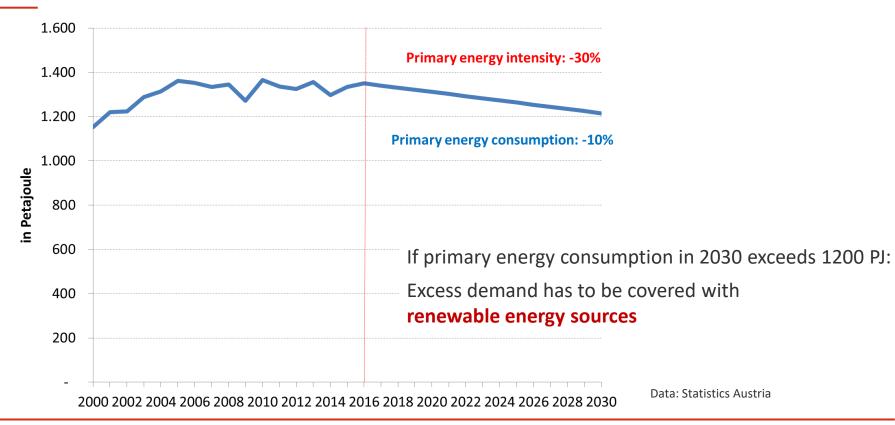


Data: Statistics Austria



Reduction of primary energy intensity by 25% to 30% (compared to 2015)

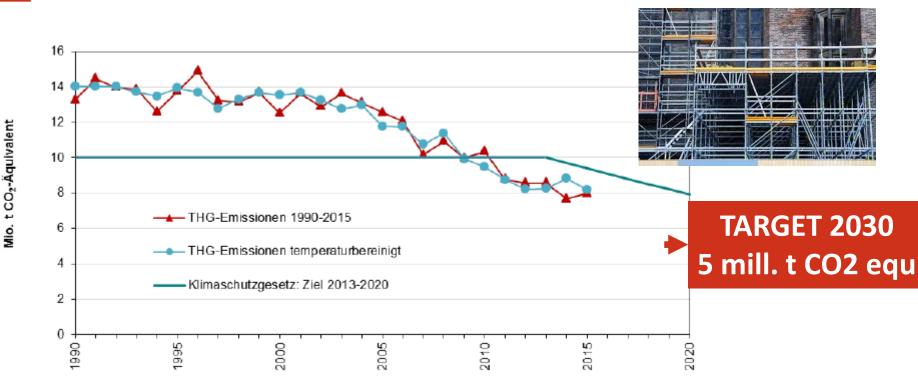






Reduction of greenhouse gas emissions of buildings and increase of renovation rate to 2% p.a.



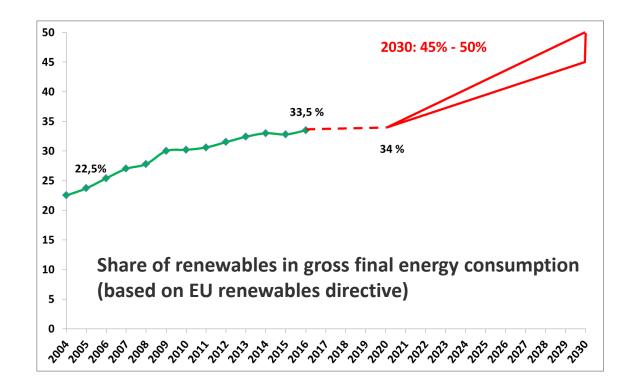


Source: Environment Agency Austria





Increasing the share of renewables to 45% – 50%



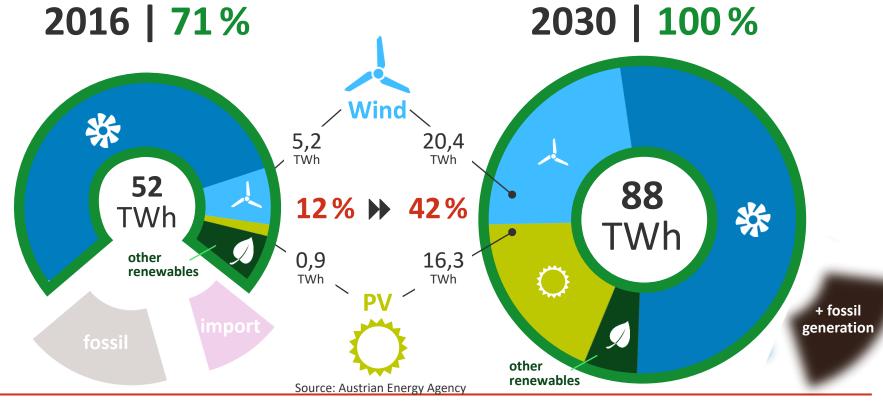


Data: Eurostat





100% green electricity requires up to plus 35 TWh



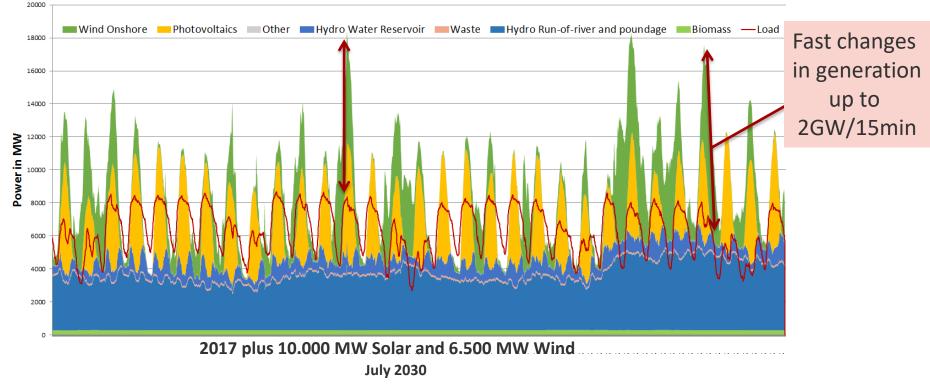


Additional generation will come mainly from PV and wind



2030 | Future is becoming more complex Massive surplus of generation during summer

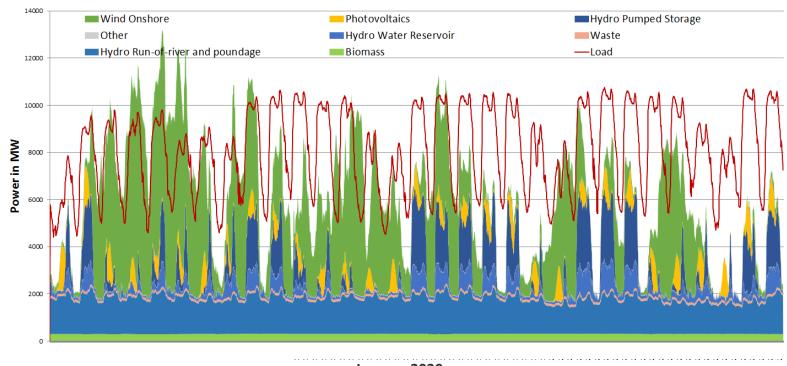




Data source: ENTSO-E

Winter 2030 | Future is becoming more complex Energy needed to cover demand during winter



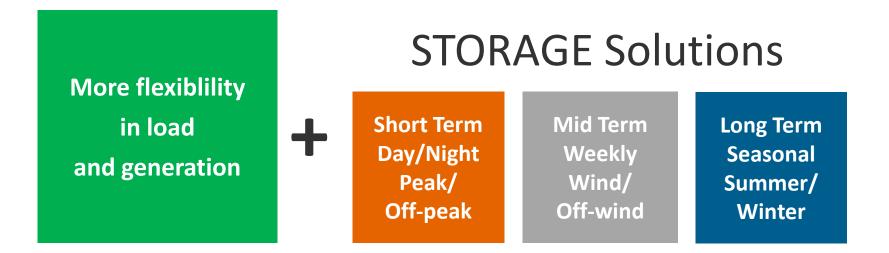


January 2030 2017 plus 10.000 MW Solar and 6.500 MW Wind

Data source: ENTSO-E

Flexibility is key for the 100% RES-based Austrian power system





Intelligent / digital system /sector coupling

Summary

key targets of **#mission2030**



- Full **decarbonisation** of the energy system until 2050
- 45% 50% of energy demand from renewables until 2030
- **100%** electricity from renewables
- **Phase-out** of **oil** for heating (2020 new boilers / 2025 replacements)
- Greening the gas supply
- Massive uptake of e-mobility
- Reduction of energy intensity by 25% 30%, renovation rate 2% p.a.
- Green hydrogen & electricity in industry after 2030
- Systemic solutions / Sector coupling / Transnational market design / Infrastructure

Contact

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