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PROFITIEREN. WO IMMER SIE ENERGIE BRAUCHEN.



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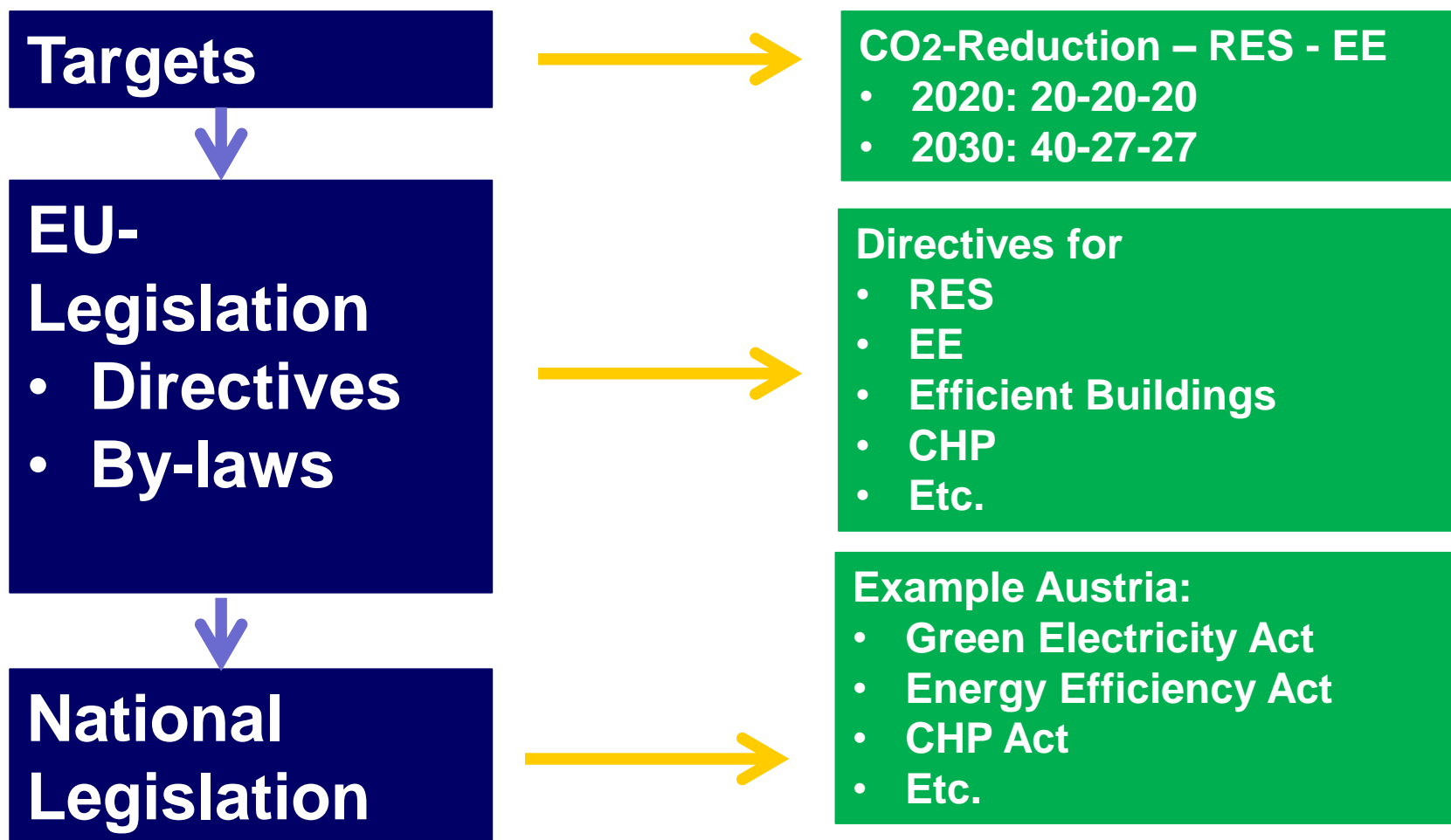
Best practices from the EU in developing RES/EE regulatory frameworks'

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THE FRAMEWORK IN THE EUROPEAN UNION



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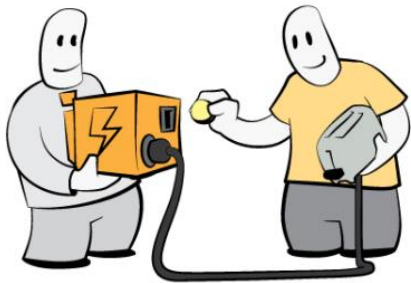


In General: brilliant!

- Technologies and know-how are available
- Investors are available
- High awareness for RES and EE among customers
- High willingness to pay for RES and EE among customers (at least residential)

Resent developments: example green electricity

- Green-electricity-technologies are far away from competitiveness – under the current market situation (low market prices for electricity and CO2-certificates)
- Need for public subsidies is still increasing – especially biomass proved to fail in electricity generation
- Conflict of targets: security of supply vs. increase RES vs. affordable energy



Best known and (probably) most successful RES Supporting Scheme: Feed-in-tariffs for green electricity



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In General

- Used in most EU-members
- Nearly riskless for investors
- Individual design in each member-country
- Every available technology was supported

The success

- Resulted in a massive increase of RES
- In Austria: green electricity doubled since 2009 with a share of approx. 20% of total generation

Still up to date?

Nowadays: FiT are...

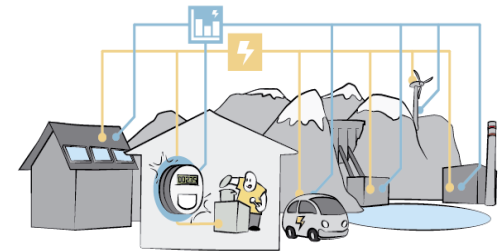
- ...not efficient
- ...not effective
- ...not adequate
- ...not flexible

The instrument

- Did a good job in the first years...
- ...but do not match present market requirements
- Very different developments among technologies

Current trend

- More market based approaches
- System responsibility for generation-units



EE and RES in 2016



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Conglomeration of different instruments and policies:

- Housing schemes
- Investment support for RES (electricity, heat)
- Subsidies for commercial and industrial EE
- Support for specific technologies
- Market based instruments (trading with EE measures)
- Etc.

Efficiency/Effectivity?

- Sometimes a confusing situation
- Double and triple support
- Subsidies very popular instrument for politicians
- Not transparent
- Not measurable
- Strong involvement of interest groups
- Etc.

- After decades of joint European Energy policies/strategies...
- ... and all the lessons learned

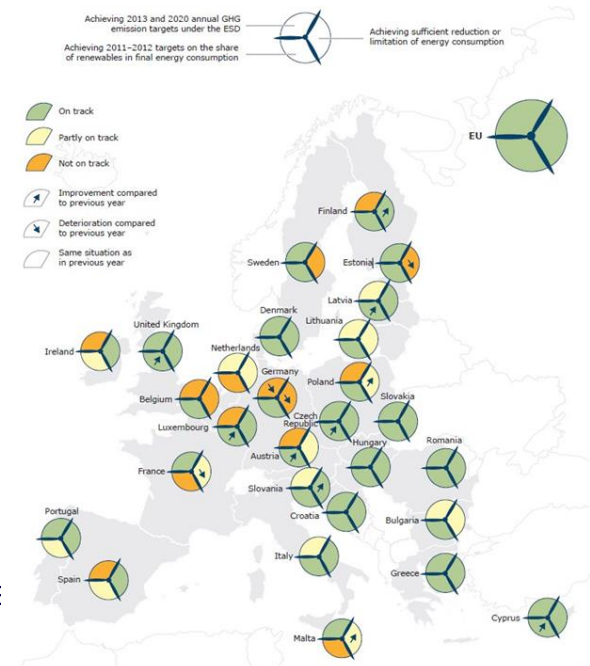
Do we still need regulation and supporting schemes??

Yes!

The market still does not generate the desired outcomes!

Still a hard way for RES and EE

- to be competitive
- and to guarantee a fast transformation of the energy system.



What is essential for successful RES and EE supporting schemes/policies?



A transparent, neutral and measurable strategy E-CONTROL

Definition of Targets:

- Technical and economical feasible (grid, balancing, etc.)
- Focus on local strengths

Definition of Supporting Schemes:

- In general: every scheme is suitable to meet the targets
- The questions are:
 - The available financial resources
 - The speed to reach the targets
 - The involved market based approaches
 - Which technologies and services should be introduced into the market
 - The risk-level for investors



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