CONCERTED ACTION
ENERGY PERFORMANCE OF BUILDINGS

Long-term renovation strategy

Session 8

Dr. Martin Pehnt

ifeu – Institute for Energy and Environmental Research Heidelberg

CTM of CT 4, EPBD

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 820497.

Welcome to Session 8 „Long-term renovation strategy“ LTRS

- **Organizing team**

Martin Pehnt (coord.) — **EPBD**

ifeu - Institute for Energy and Environmental Research, Germany

Sophie Shnapp — **RED, EPBD**

Tadeusz Skoczkowski — **EED**

Polish National Energy Conservation Agency, and Warsaw University of Technology

Emilie Carmichael — **RED**

Energy Savings Trust

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Aim of session

- **Discuss the future of the LTRS from the perspective of the three directives to identify possible co-operation areas and get synergy**

Organisational

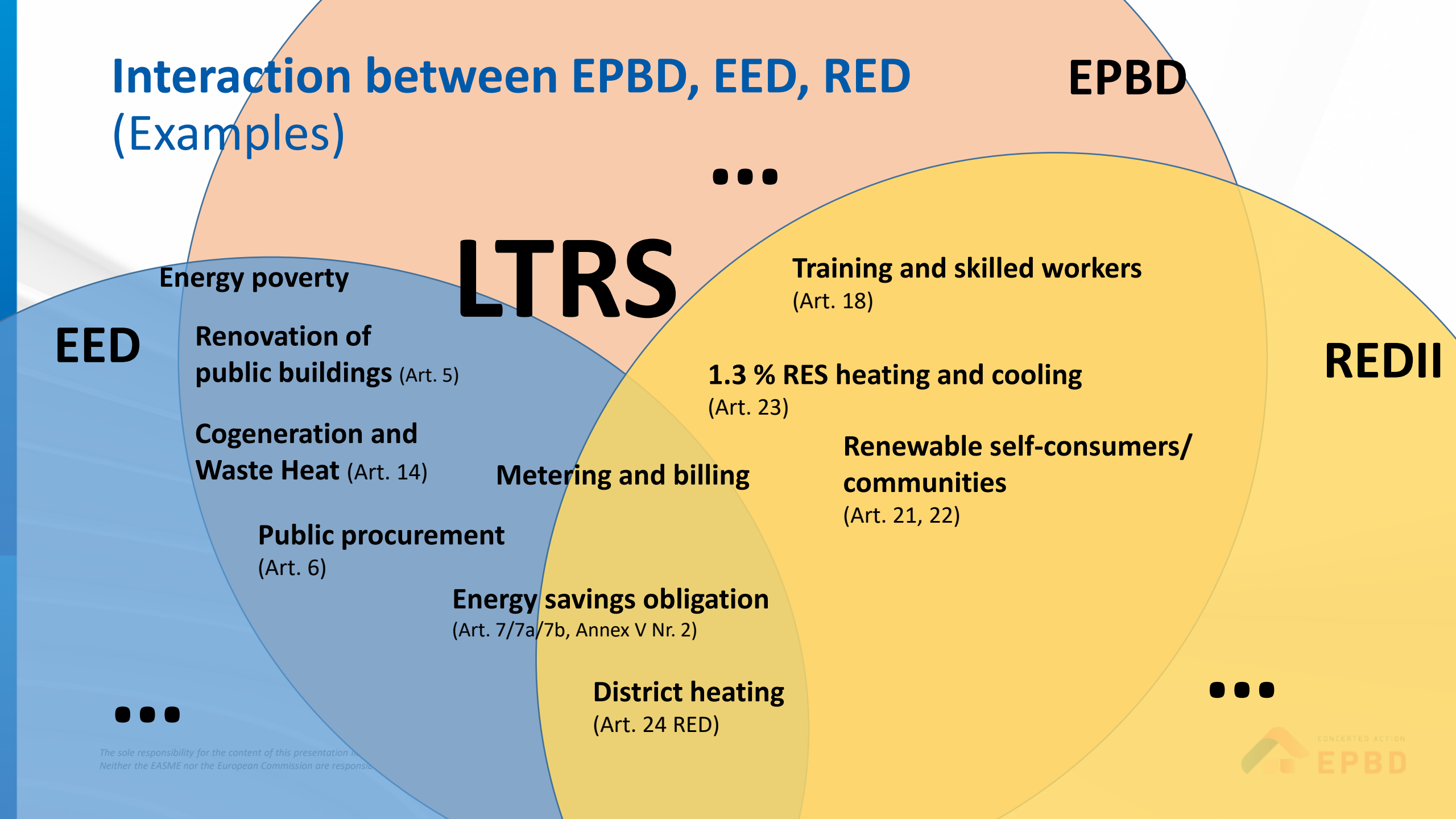
Which ministries are responsible, how is stakeholder participation designed, etc.

Strategic aspects

Relationship between supply and demand, interaction of efficiency and renewables, future role of heat/gas infrastructures and savings, allocation of biomass and PtX to sectors, etc.

Using policy mechanisms of other directives for the LTRS

Interaction between EPBD, EED, RED (Examples)



Balance between Renewable Energy and Energy Efficiency (Status: June 2019)

- **To be considered: Insulation restrictions, climate, potentials for renewables, …**

	Share of RES in total heating and cooling demand			*Savings in final energy demand for building stock*			Base year	Scale	not yet decided
Country	***2018***	***2030***	***2050***	***2018***	***2030***	***2050***			
Austria							1990	quantitative scale	
Belgium / Flanders							2007	qualtitative scale	yes
Bulgaria								qualtitative scale	yes
Croatia							2017	quantitative scale	
Cyprus							2010	quantitative scale	
Denmark							2005	quantitative scale	yes
Estonia								quantitative scale	yes
Finland							2012	quantitative scale	
France							2012	quantitative scale	
Italy							baseline	quantitative scale	
Luxemburg							1995	quantitative scale	
Slovakia							average of 2001-2005	quantitative scale	
Spain							2015	qualtitative scale	yes

Note: system boundaries, base years, and methodologies differ.

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Cyprus					2010	quantitative scale	
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Estonia						quantitative scale	yes
Finland					2012	quantitative scale	
France					2012	quantitative scale	
Italy					baseline	quantitative scale	
Luxemburg						quantitative scale	
Slovakia					average of 2001-2005	quantitative scale	
Spain						quantitative scale	yes

How do we achieve the right balance of efficiency and renewables with political instruments?

e. g. in Germany, a „top-down“ CO_2 price is **combined** with more detailed sub-policies, including

- strict HT‘/U value AND renewable heating requirements for new buildings
- certain renovation requirements for existing buildings
- a ban on new installation of heating oil boilers from 2026
- But solar energy supply of tenants or neighbours is complex.

Note: system boundaries, base years, and methodologies differ.

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Overview of EPBD Article 2a components

Submission
March 2020

Article 2a
Long-term renovation strategies to support renovation into a **highly energy efficient and decarbonised building stock** by 2050, facilitating the **cost-effective** transformation of existing buildings into **nearly zero-energy** buildings.

Public Consultation

Financing and economic

Best practices on smart financing

Cost-effective transformation

- Trigger points

Incentives

Incentives for skills and educations

Incentives for smart technologies

Policies & actions for public buildings

Policies & actions against energy poverty

Policies

Roadmap

- Milestones & indicators 2030, 2040 & 2050

Highly energy efficient and decarbonised building stock by 2050

- Requirements for existing buildings

Energy savings and wider benefits

- Health, safety and air quality

Overview of building stock

Policies & actions for cost-effective deep renovation

- Staged vs. one-step
- Building renovation passports

Policies & actions for worst performing buildings

Split-incentive & market failures

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Time	What	Who
9‘00	Welcome and Introduction	Martin Pehnt *ifeu – Institute for Energy and Environmental Research Heidelberg*
Part I	**Insights**	
9‘10	**LTRS and decarbonization of buildings** Importance for the overall targets, new role of LTRS within EPBD, insights from evaluation 2017 LTRS, what to expect in future	Paolo Bertoldi *DG JRC – Directorate Energy, Transport and Climate*
9‘20	**Insights from the 2020 LTRS process** **The Spanish LTRS 2020** **Experience from three current LTRS**	 Eduardo de Santiago *Ministerio de Fomento* Ivan Jankovic *BPIE*
9‘50	Towards integrated LTRS: **Summary** of part I and presentation of questions for Part II	Tadeusz Skoczkowski *Polish National Energy Conservation Agency and Warsaw University of Technology*
Part II	**Conclusions paper**	
10’00	Discussion of prepared questions in small “cross-directive” groups	
10’25	Collecting the conclusions in the plenary	Sophie Shnapp, Emilie Carmichael *Energy Saving Trust*
10’30	End of session	

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Group work

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Questions

- **20 min group work. Aim: Produce 2-5 statements.**

1. Using RED and EED for the LTRS: Are there significant measures in the transposition of the EED or RED which particularly help to achieve the objectives of the LTRS? Discuss good examples. E. g.

EED: public buildings, procurement, energy savings obligation (Art. 5, Art. 6, Art. 7/7a/7b EED)

RED: mainstreaming RES heating and cooling, training, self-consumption, (Art. 18, 21, 23 (…)?

2. Synergies and conflicts in the LTRS: Are there significant measures in the LTRS or in the current building instruments where efficiency cannibalizes renewables or vice versa ….

… e. g. regarding favorable policy, access to financing, rewards in the building code? Is a CO2 reduction approach e. g. with CO_2 taxes sufficient or do we need separate requirements/instruments for efficiency and renewables? Experience in each country.

3. Integration of Directives: Do you have any suggestions for a better integration of the three directives in terms of instruments or policy areas?

e. g. responsibilities, time frame and difficulty in co-coordination among the directives? How to identify the synergic elements of LTRS in MSs?

Thank you!

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