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IRENA INNOVATION WEEK<sup>2020</sup>

# Session 8: The Way Forward

Re-capping and looking ahead

Thursday, 08 OCTOBER 2020 • 14:00-16:00 GMT+2

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# Session overview

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14:00-14:15	Key takeaways from technical discussions
14:15- 14:45	Climate Action in the Industry and Transport Sectors
14:45- 14:50	Digital break
14:50-15:50	Public Private discussion on Policies to Support the Transition
15:50– 16:00	Closing Remarks

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Please make sure to **mute** yourself during the session to avoid background noise



If you have questions for our panelists, please use the **Q&A**



Use **Chat** feature to introduce yourself & talk to other participants



The session is **livestreamed & recorded**. Recording will be available in a public domain. No Chatham House rules apply

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Key takeaways and reflections on this week's discussions

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# Key takeaways and reflections on this week's discussions

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**Dr Dolf Gielen**

Director

IRENA Innovation and Technology Centre



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## Panel I: Climate Action in the Industry and Transport Sectors

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# Panel I: Climate Action in the Industry and Transport Sectors

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## Moderator



**Elizabeth Press**

Director Planning and  
Programme Support  
IRENA

## Panellists



**Gonzalo Muñoz**

High-Level Climate  
Champion  
Chile



**Catherine Bremner**

Director of International  
Climate & Energy,  
Department for Business,  
Energy and Industrial Strategy  
UK

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## Panel II - Public private discussion on policies to support the transition

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# Panel II: Public private discussion on policies to support the transition

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**Dr Rabia Ferroukhi**

Director  
IRENA Knowledge, Policy and Finance Centre

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# Policies to support the energy transition in industry and transport

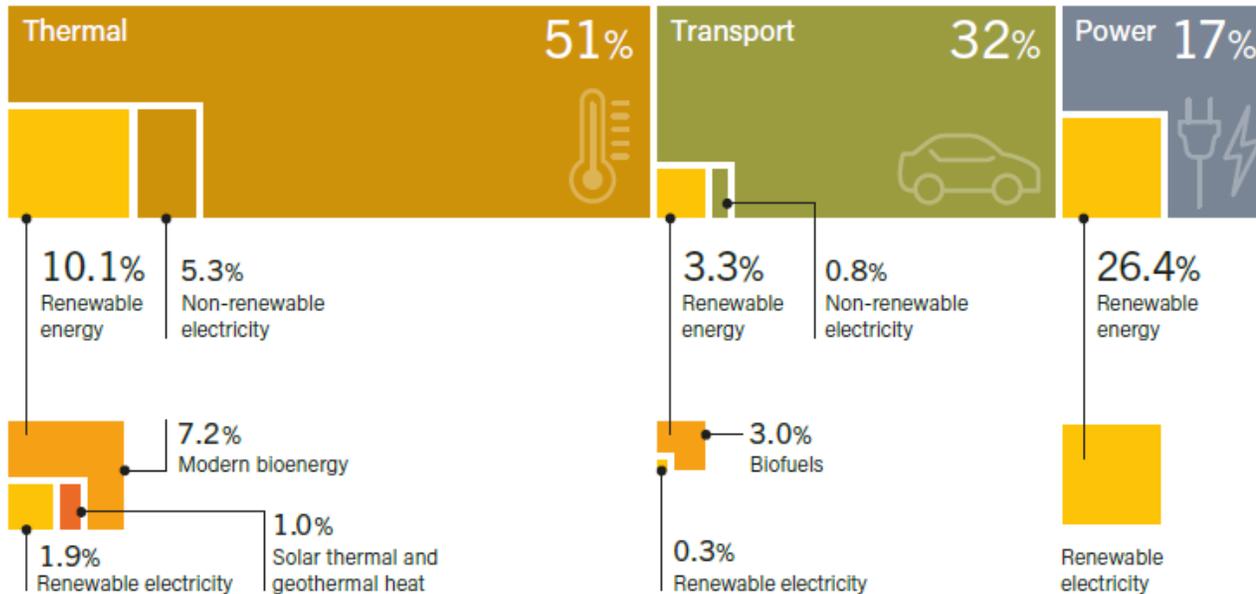
Dr. Rabia Ferroukhi

Director of the Knowledge, Policy and Finance Centre (KPFC)

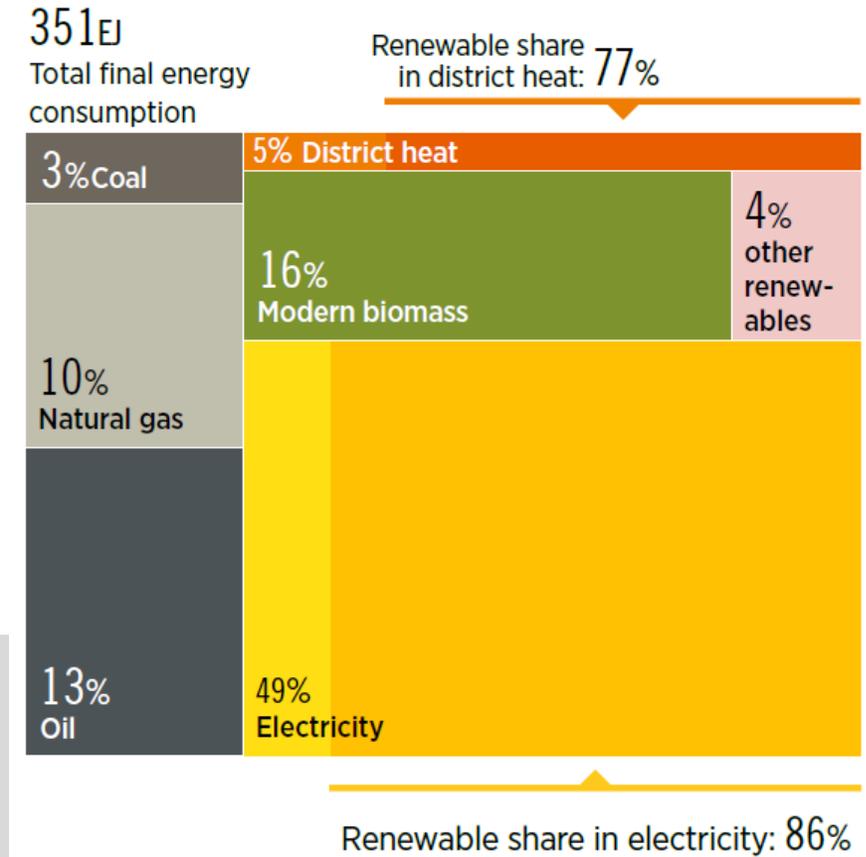
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# Energy Transition Policies – a systems approach

## TFEC today



## Transforming Energy Scenario 2050



Policy frameworks need to take a systems approach with more fully integrated policies across sectors

# Policies to enable the transition pathways for heating and cooling



Renewable-based electrification



Renewable gases (biomethane and Green Hydrogen)



Sustainable use of biomass



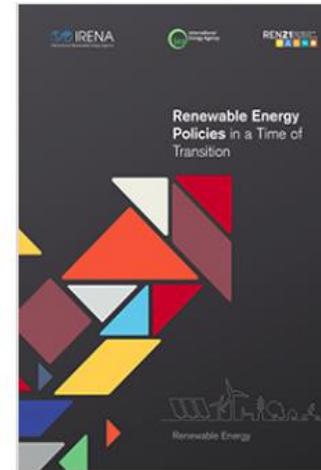
Direct use of solar thermal



Direct use of geothermal heat

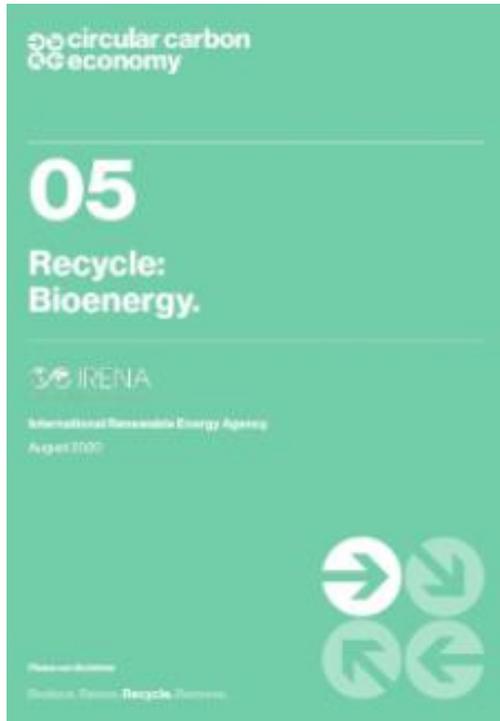


District heating and cooling



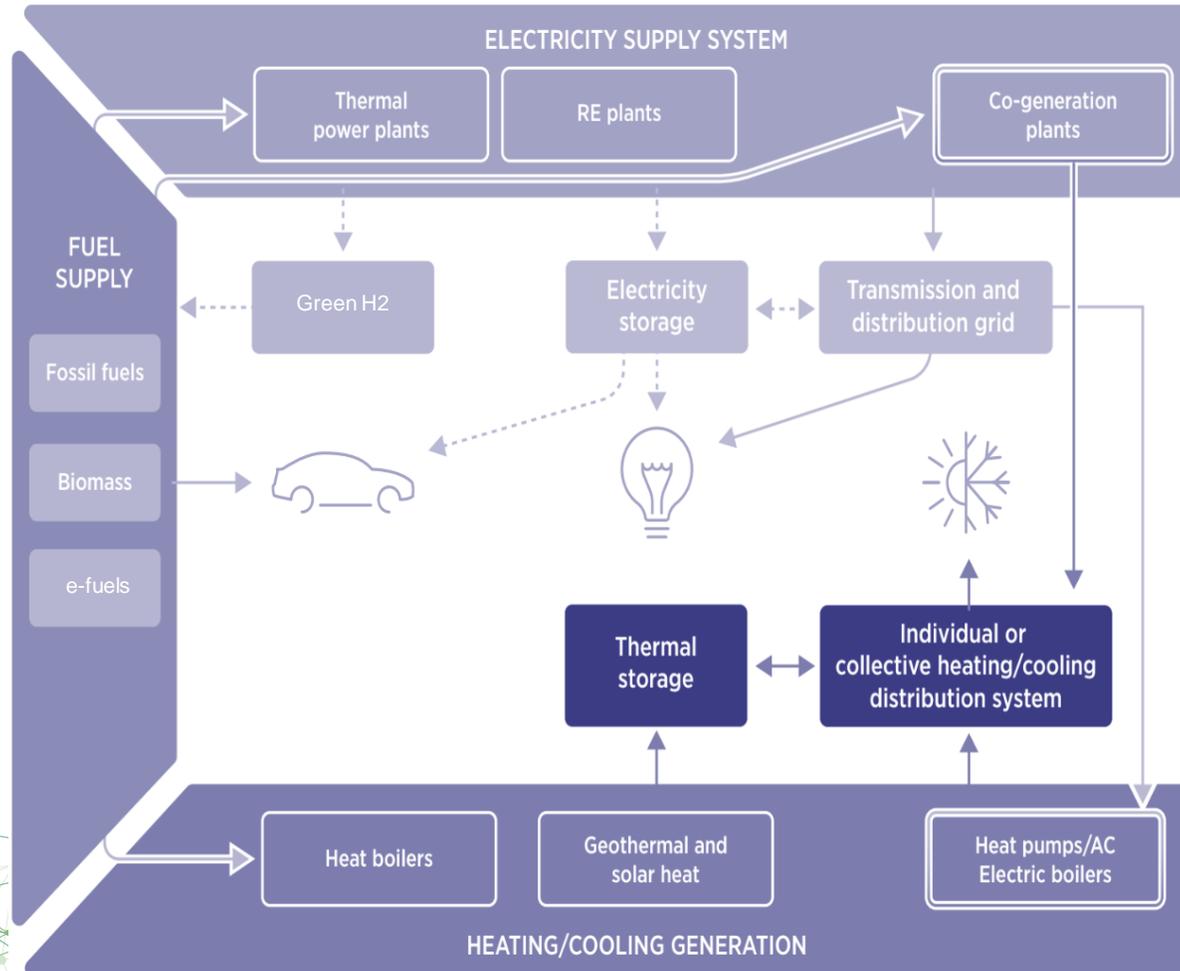
Development Urban  
Research Time-of  
Digitalisation Flexibility  
Long-Term Use Loans Energy Institutional  
Appliances Financial Heat Codes  
Minimum Strategy Behavioural Assurance  
Quality Sector Mandates  
Campaigns Planning Buildings  
Labelling Guarantees  
Pump National  
Strategies Private Policies

# Policies for sustainable bioenergy



- Bioenergy will have essential roles in the transformation of all end-use sectors
- Significant potential will be for long-haul transport and some heavy industries
- Financial, regulatory and technical barriers impeded the development
- Policies are needed to maximise synergies with agriculture, forestry, and waste management

# Policies for electrification and sector coupling



Policies for the acceleration of electrification and sector coupling include:

- financial support
- power market reforms
- tariffs redesign
- infrastructures upgrades
- minimum performance standards
- quality assurance

Indirect electrification, through Green Hydrogen, is also getting more and more attention...

# The drivers of the “new wave” of green hydrogen



Focus on all sectors

Technology maturity

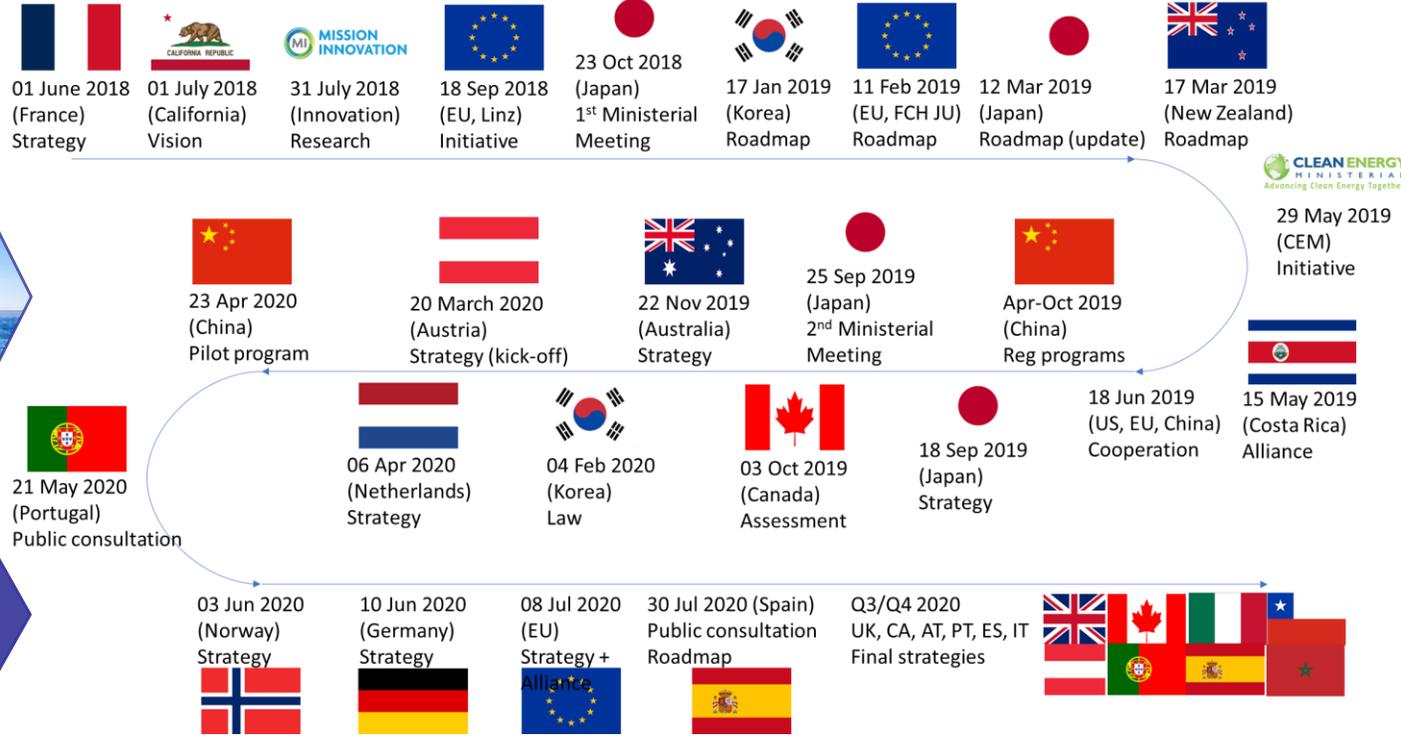


Decreasing VRE cost



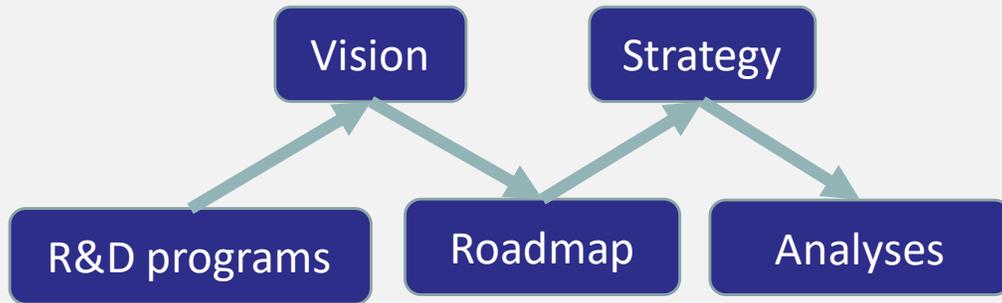
Commitment to net zero

Actor diversity



# Four pillars for green hydrogen policy making

## 1. National hydrogen strategies



## 2. Governance system and enabling policies

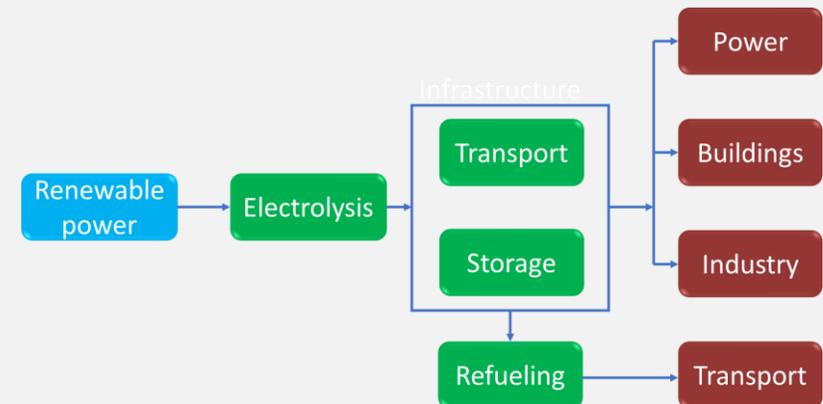
- ✓ Advisory council and sectoral tables
- ✓ Workforce development
- ✓ Codes, standards and regulations
- ✓ Level the playing field
- ✓ Research priorities

## 3. Guarantees of origin

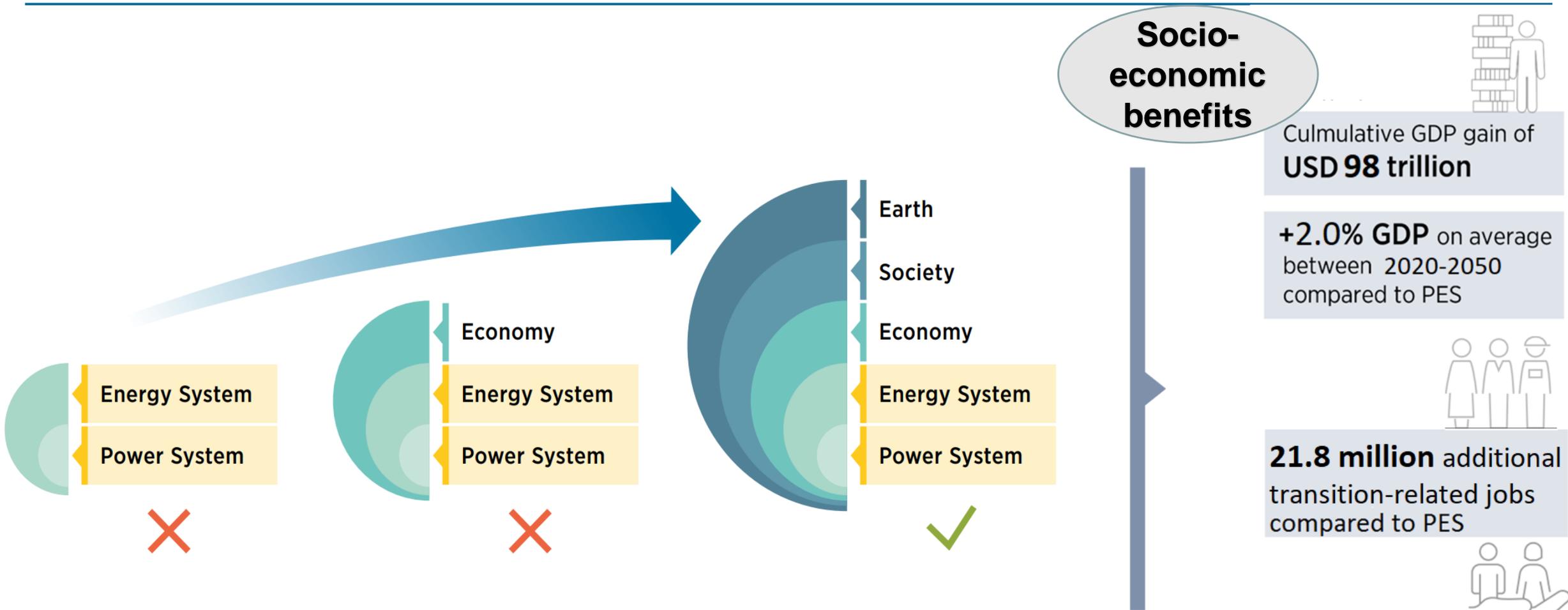


- ✓ Lifecycle emissions
- ✓ Labeling
- ✓ Production method
- ✓ Secured transaction
- ✓ Internationally accepted
- ✓ Robust, reliable

## 4. Establish policy priorities



# A systems approach for technology, policy and socio-economic structures



**Socio-economic benefits**

Cumulative GDP gain of **USD 98 trillion**

**+2.0% GDP** on average between 2020-2050 compared to PES

**21.8 million** additional transition-related jobs compared to PES

**+13.5% Welfare** improvement compared to PES

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Thank you!

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# Panel II: Public private discussion on policies to support the transition

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## Panellists



**Young Tae Kim**  
Secretary General  
ITF



**Amanda Wilson**  
Director General  
Office of Energy R&D  
Natural Resource  
Canada



**Ola Göransson**  
Deputy Director  
Ministry of Environment  
and Energy,  
Sweden



**Michael Hackethal**  
Head of Division - General  
issues of international  
energy cooperation,  
multilateral energy  
cooperation  
BMW, Germany



**Gregory Dolan**  
CEO  
Methanol Institute



**Soma Banerjee**  
Executive Director  
Confederation of  
Indian Industry

**Moderated by**

**Dr Rabia Ferroukhi**  
Director, Knowledge, Policy  
and Finance Centre  
IRENA



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## Closing remarks

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# Closing remarks

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**Francesco la Camera**

Director General  
IRENA

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**Thank you for joining us!**

**Summaries, slides and session recordings can be downloaded at:  
<http://innovationweek.irena.org>**

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