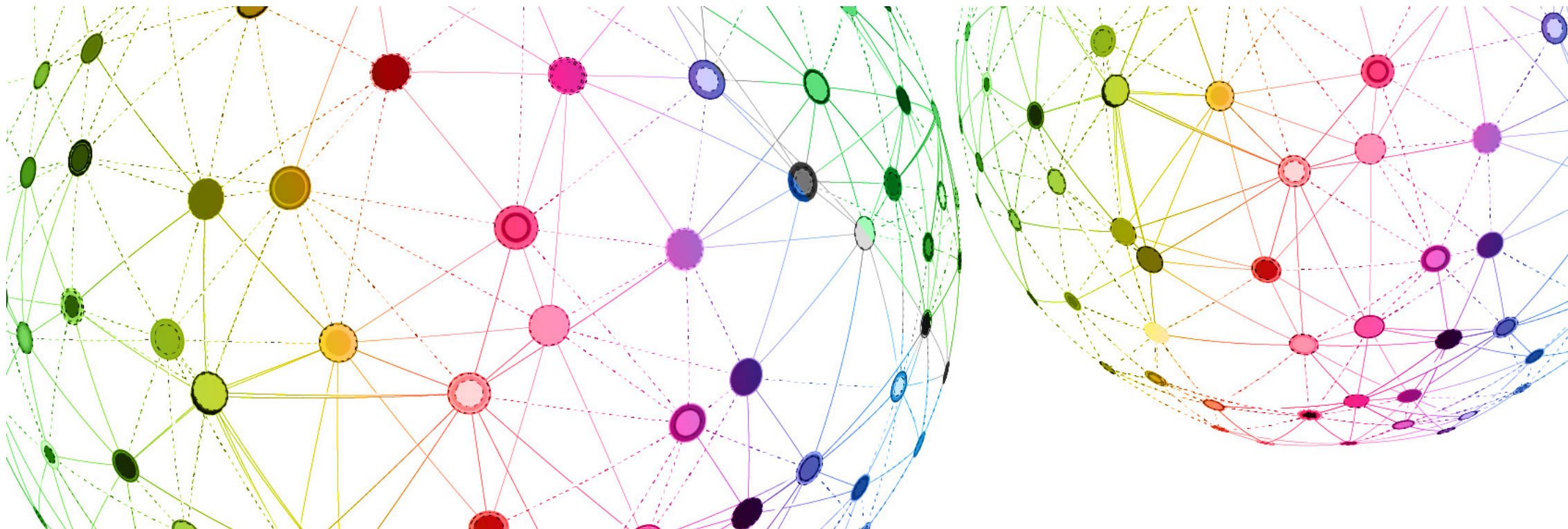




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Ufficio federale dell'energia UFE  
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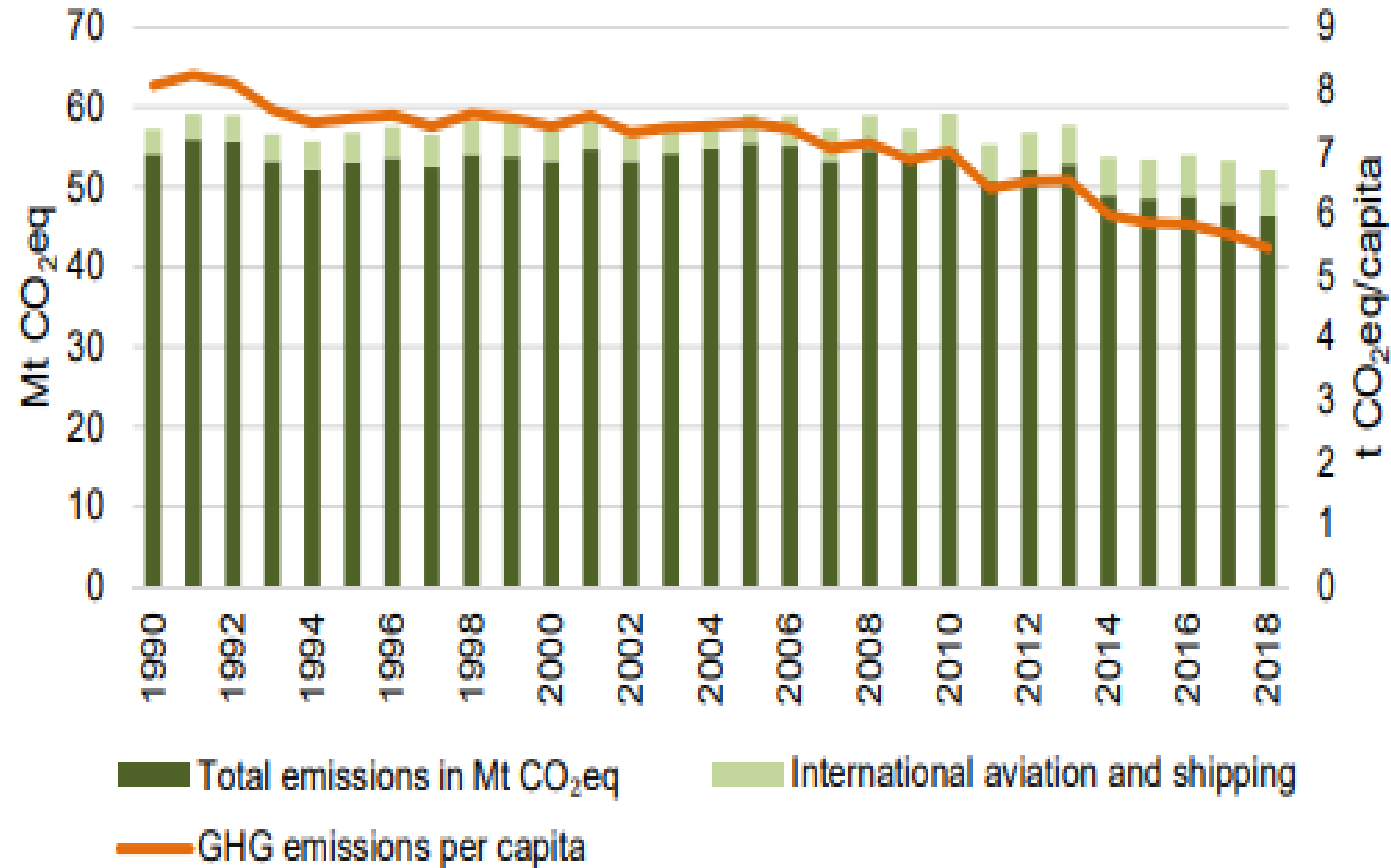


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# IEA NETWORKING EVENT 2022



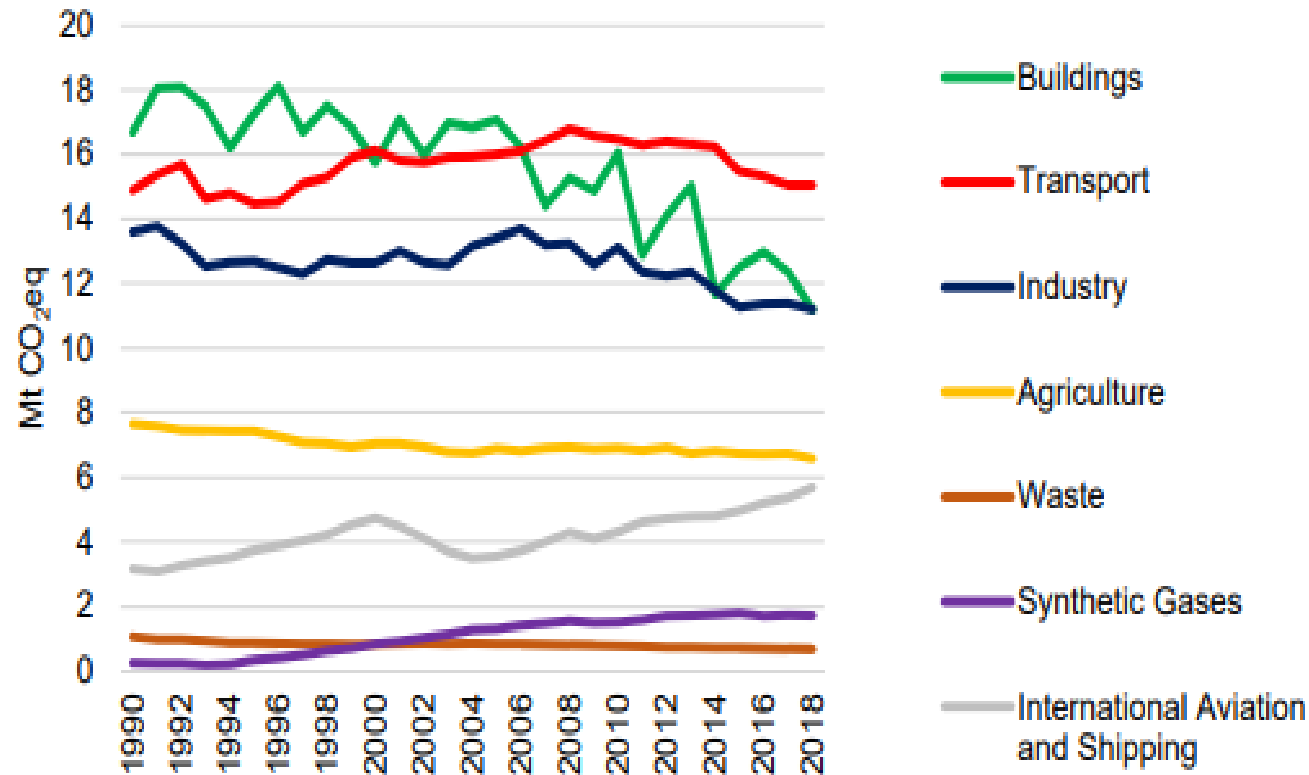
# DECARBONISATION THE INDISPENSABLE PATHWAY OF THE FUTURE



(Source: FOEN, 2020)



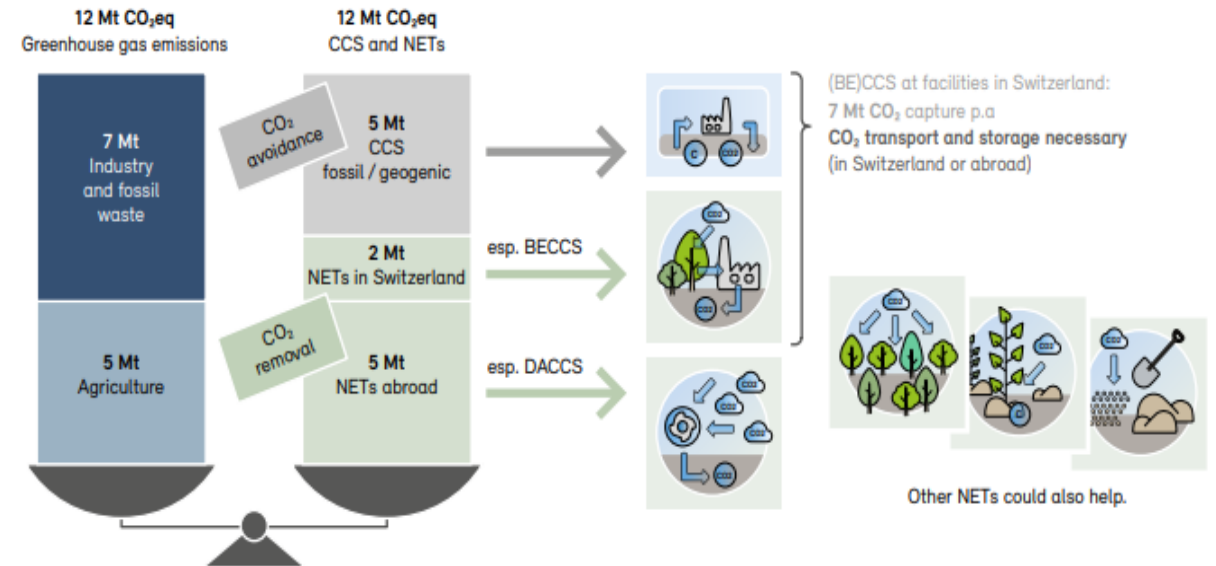
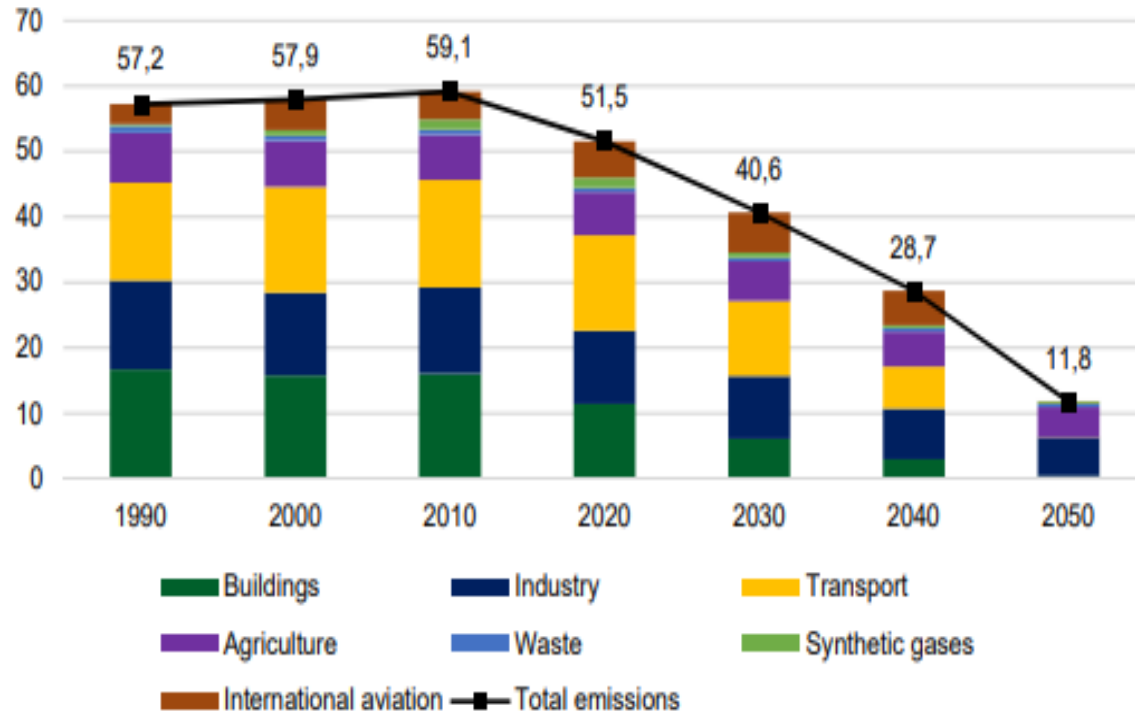
# DECARBONISATION THE INDISPENSABLE PATHWAY OF THE FUTURE



(Source: FOEN, 2020)



# DECARBONISATION THE INDISPENSABLE PATHWAY OF THE FUTURE



(Source: FOEN based on Prognos/TEP Energy/Infras/Ecoplan 2020)

(Source: FOEN 2021)



# DECARBONISATION THE INDISPENSABLE PATHWAY OF THE FUTURE

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09:45 – 10:15 **IEA Headquarters – Net Zero by 2050 – A Roadmap for  
the Global Energy Sector**

*Uwe Remme, Head of Hydrogen and Alternative Fuels  
Unit, International Energy Agency, Paris*

10:20 – 10:30 Discussion

10:35 – 10:50 **Energy perspectives 2050+ – The role and possible  
pathways of decarbonisation in different sectors**

*Giulia Lechthaler-Felber, Deputy Head Analysis and  
Perspectives, Swiss Federal Office of Energy, Berne*

10:55 – 11:05 Discussion



# DECARBONISATION THE INDISPENSABLE PATHWAY OF THE FUTURE



## System integration

11:10 – 11:25 **Wide band gap semiconductors – the future of power electronics**

*Roland Brüniger, R. Brüniger AG, Ottenbach*

11:30 – 11:45 **Energy flexibility of building clusters**

*Monika Hall, FHNW, Muttenz*

11:50 – 12:05 **Heat pump integration and application in nearly Zero Energy Buildings**

*Carsten Wemhöner, OST, Rapperswil*

12:05 – 12:15 Discussion

**12:15 – 13:30 Lunch**





# DECARBONISATION THE INDISPENSABLE PATHWAY OF THE FUTURE



## Mobility

13:30 – 13:45 **The future of decarbonisation is today: successes and hurdles of grid-serving electromobility**

*Anna Roschewitz, Novatlantis, Zürich*

13:50 – 14:05 **Enabling long-lasting battery systems for the provision of several decarbonization services**

*Priscilla Caliandro, BFH, Biel*

14:10 – 14:25 **Hydrogen and other low carbon fuels**

*Yuri Wright, ETH, Zürich*

14:30 – 14:45 **The Progress of Advanced Marine Fuels and the Specific Role of Dual-Fuel Technology in Decarbonising Shipping**

*German Weisser, WinGD, Winterthur*

14:50 – 15:10 Discussion

**15:10 – 15:30 Coffee**



# DECARBONISATION THE INDISPENSABLE PATHWAY OF THE FUTURE

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15:35 – 15:50 **Photovoltaic Power Systems Performance and Reliability - a joint SWISS contribution to PVPS Task13**

*Franz Baumgartner, ZHAW, Winterthur*

15:55 – 16:10 **Social License to automate**

*Selin Yilmaz, University of Geneva, Geneva*

16:15 – 16:30 **How to get rid of the rest – the role of CCUS/NET in decarbonization**

*Valentin Gischi, Programme Manager*

*Energy Research, Swiss Federal Office of Energy, Berne*

16:30 – 16:40 Discussion

16:40 – 16:50 **Closing remarks**

*Philippe Müller, CERT Alternate and Co-Head of Section*

*Energy Research and Cleantech, Swiss Federal Office of Energy, Berne*

16:50 – 17:30 **Networking Apéro**