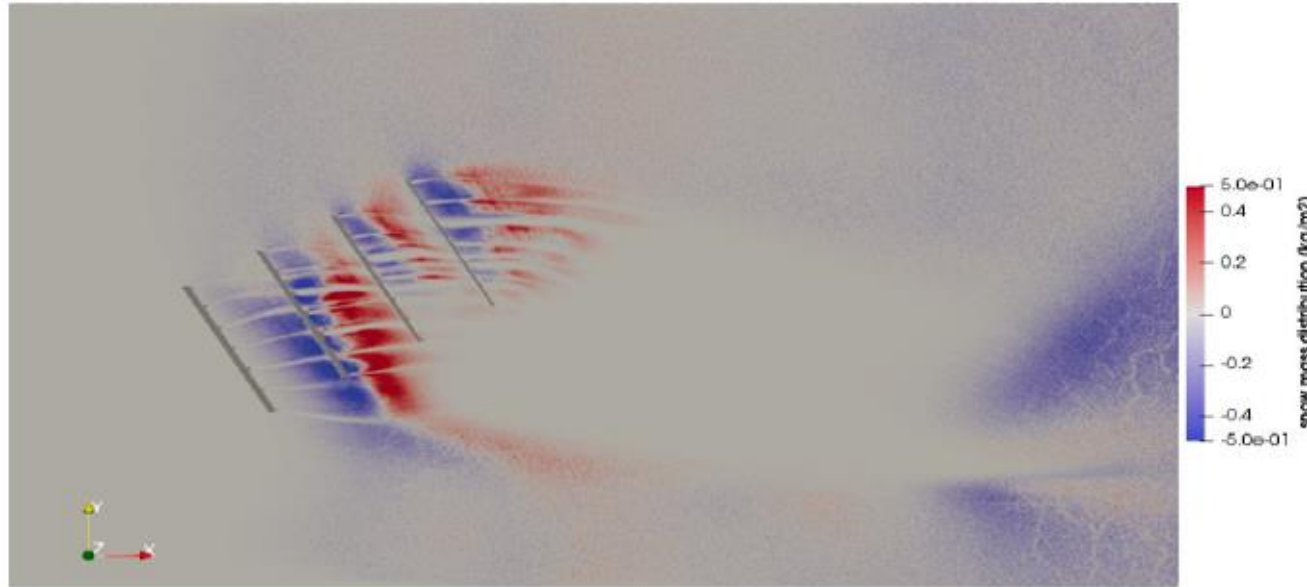




# EDGE: Integrating very high shares of decentralized renewable energy into the Swiss energy system

Prof. Michael Lehning, EPFL-C & WSL/SLF

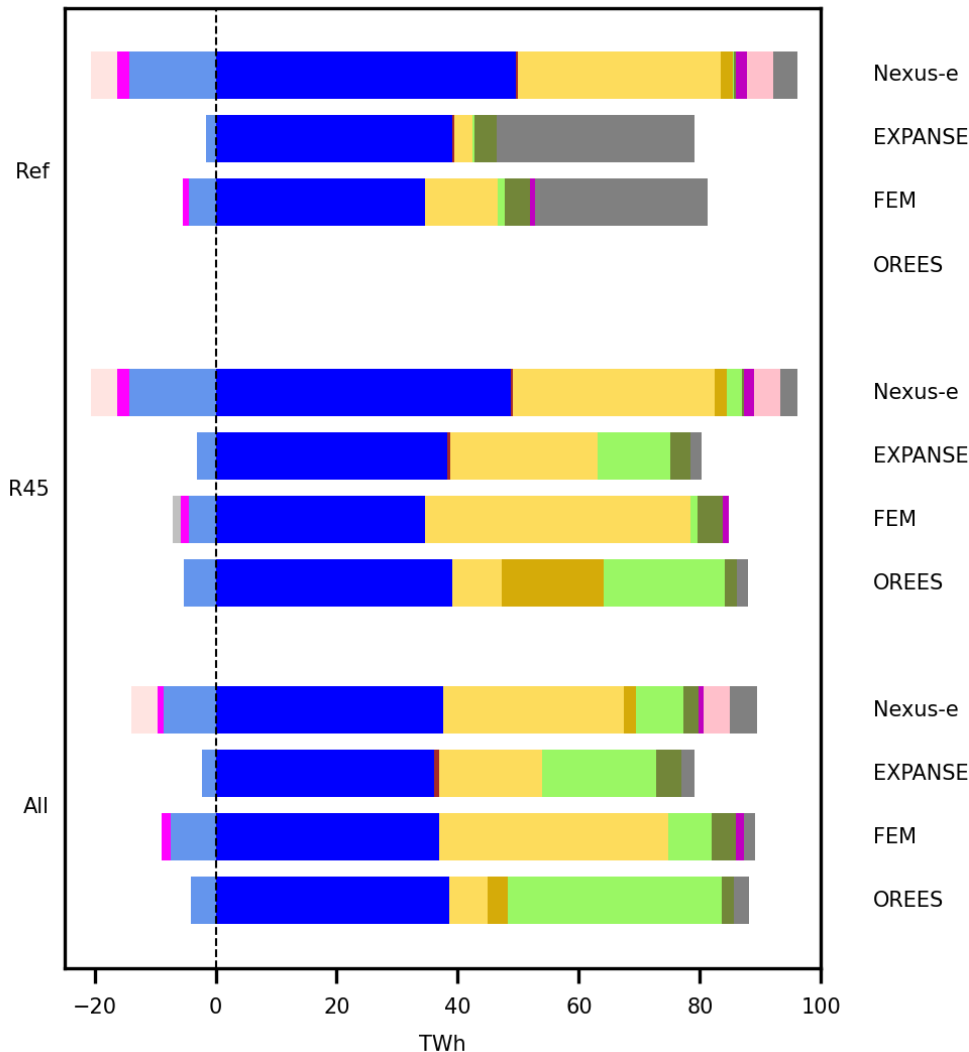
# EDGE: Solving Problems of the Energy Turn-Around



From Design Options for Alpine PV  
over wind and solar potential maps  
to .....



# National Scenarios and Policy Implications



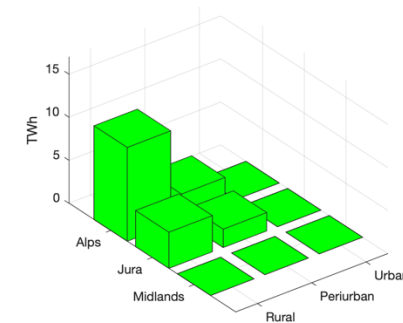
No target –  
TYNDP 2022  
scenario

45 TWh target  
renewable  
generation

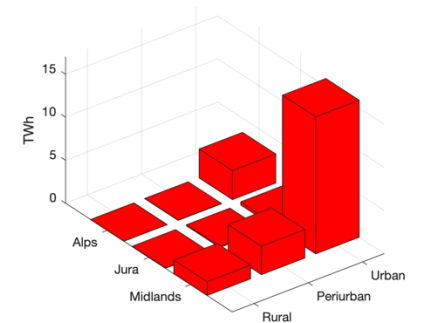
Add 5 TWh winter  
import and  
network capacity  
restriction

Wind dominated

Excess of Electricity in Winter



Deficit of Electricity in Winter



## Policy Implications:

- Improve Solar- and Windexpress
- Generate positive reputation for de-centralized installation
- Support grass-root initiatives
- Stay “Alpine”

EDGE is supported by the SWEET programme