APPROACH

ADVANCED PHOTONIC PROCESSES FOR NOVEL SOLAR ENERGY HARVESTING TECHNOLOGIES

From a academia to eletrical ucility
NAME: Eva Sediva

euproject-approach.eu/

This project receives funding from the European Commission's
Horizon Europe Research Programme under Grant Agreement Number 101120397

From academia to electrical utility

My path through academia:

- Studies ETH Zurich (Masters in Materials)
- PhD in Electrochemical Materials (ETH and MIT)
- PosDoc (Prague, Milano)

My path in industry:

- CEZ: largest electricity provider in CZ
  - Assets and business:
    - 2 nuclear power plants, coal (9x), hydro, gas power plants, Czech electricity and gas distribution network, district heating, EV charging infrastructure, PV
  - Vision of decarbonization: increasing renewable and nuclear resources, substituting most coal fuel by 2030
  - Motivation for decarbonization
    - Falling prices of renewables
    - EU Green Deal goals (read Fit for 55)
  - About 30k employees
  - Net yearly profit >1 bil. EUR (most payed out in dividends)

  - R&D team
    - Part of the division strategy, 4 employees
    - Cooperation with Universities and Research centers → contract research projects
    - Techno-economic studies for new technologies
    - Feasibility studies for pilot projects
      - Pilots are aiming for technologies that might be commercial around 2035-2040
      - Pilots aim to aid the next wave of decarbonization (limiting natural gas)

R&D in Europe

- The top 2000 global companies invest 85% of private global R&D funds (minimum to be in top 2000 67 mil. EUR)
  - Only 4 have headquarters in widening countries
  - Limited access to capital and R&D teams in widening countries
- The top 50 companies invested 500 billion in R&D (11 are in Europe)
- Top R&D investors in the EU are based in Germany, France and Netherlands (half of the top 800)

APPROACH

THANK YOU

euproject-approach.eu/

This project receives funding from the European Commission's
Horizon Europe Research Programme under Grant Agreement Number 101120397