

ErVIn

Enabling Flexible **Electric Vehicle Grid Integration**

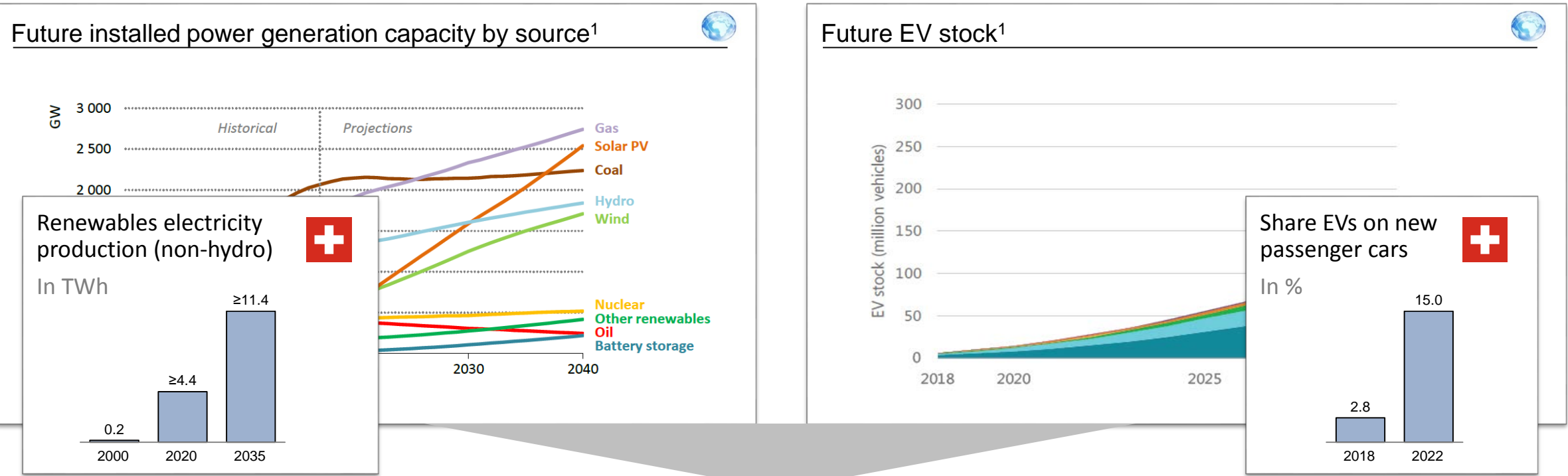


Swiss Federal Office of Energy

SusTec






Increasing renewable power production and EV diffusion call for the smart integration of EVs into the power grid—globally and in Switzerland.



How can the increasing share of EVs be beneficially integrated into distribution grid(s)?

¹ IEA New Policies Scenario

We approach this question sequentially in three interlinked work packages.

Workpackage	Sub-question
 WP 1	What are promising settings (technical and socio-economic aspects) for the integration of EVs as flexibility source in distribution grids?
 WP 2	How do different EV charging/discharging strategies affect the attractiveness of EVs as flexibility option in distribution grids and how could they become feasible options?
 WP 3	How do different incentives affect the integration of EVs as a flexibility option in different distribution grid settings ?



Research Question: How can the increasing share of EVs be beneficially integrated into distribution grid(s)?



Considering...

- ... different **charging/discharging strategies** of different EV users
- ... different **grid settings** (e.g., share of renewables, stationary storage)
- ... different **incentive schemes**