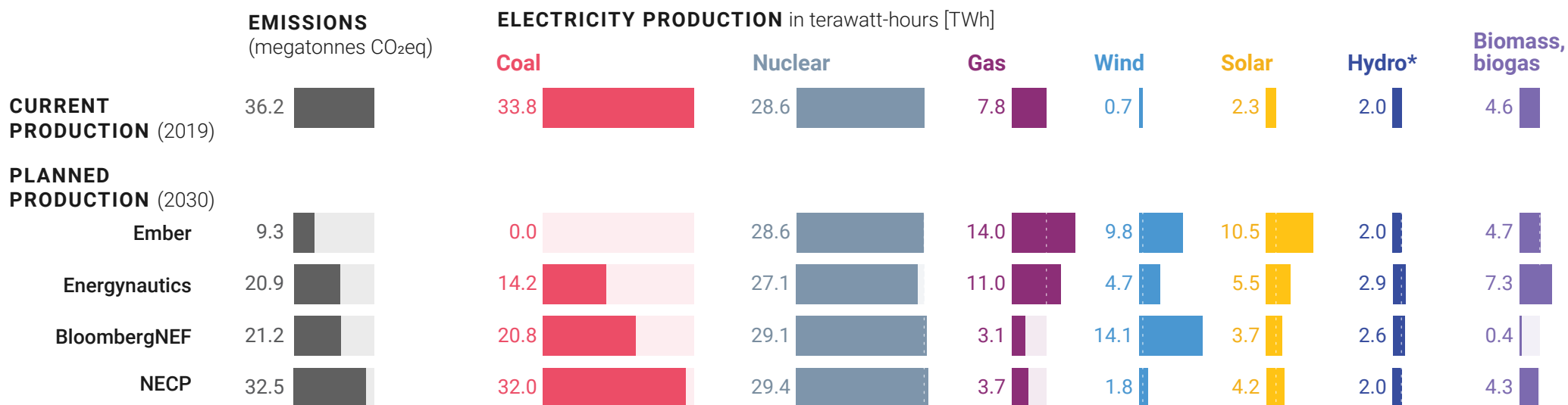


# ENERGY PRODUCTION: TRANSITION PATHWAYS (CZECHIA)

A comparison of different transition scenarios for electricity production in 2030



\* Excluding pumped hydro

|               | How does the scenario deal with low solar & wind production in bad weather? | Are batteries or hydrogen storage considered for Czechia? | Does the electricity market model include the price of allowances?                | What kind of transmission grid model is presented?             | Is heat production considered?                              |
|---------------|---|---|---|--|---|
| Ember         | gas, hydro  | BATTERY (only in one variant)                             | YES (with market-driven investment optimisation)                                  | only an aggregated European grid (1-hour resolution)           | YES   |
| Energynautics | gas, hydro  | NO  | NO  | both European and Czech (1-hour resolution, weather by 15 min) | NO  |
| BloombergNEF  | coal, gas, hydro  | NO  | YES (with market-driven investment optimisation)                                  | unclear  | NO  |
| NECP          | coal, gas, hydro  | NO  | Prices of electricity and allowances are provided, but the calculation is unclear | unclear  | YES (incl. building energy efficiency and other parameters) |