Hourly generation dispatch by technology in GER Renewables share = $0.379 \ge 0.32$ CO2 reduction = $0.986 \ge 0.55$ wind_on wind_off solar biomass 1.00×10^{5} nuclear coal gas_cc gas_oc hydro 7.50×10^4 $p_{g,\,n,\,t}[\mathrm{MWh}]$ 5.00×10^4 2.50×10^4 0 0 50 100 150 t