Hourly generation dispatch by technology in FRA Renewables share $= 0.32 \ge 0.32$ CO2 reduction $= 0.969 \ge 0.55$ wind_on wind_off solar biomass nuclear coal 6.0×10^4 gas_cc gas_oc hydro $p_{g,\,n,\,t}[\mathrm{MWh}]$ 4.0×10^4 2.0×10^{4} 0 50 100 150 0 t