Hourly generation dispatch by technology in FRA Renewables share = $0.317 \ge 0.32$ CO2 reduction = $0.957 \ge 0.55$ wind_on wind_off solar biomass 4.0×10^{4} nuclear coal gas_cc gas_oc hydro 3.0×10^4 $p_{g,\,n,\,t}[\mathrm{MWh}]$ 2.0×10^4 1.0×10^{4} 0 50 100 0 150 t