Hourly generation dispatch by technology in SPA Renewables share = $0.343 \ge 0.32$ CO2 reduction = $0.984 \ge 0.55$ 2.50×10^4 wind_on wind_off solar biomass nuclear 2.00×10^4 coal gas_cc gas_oc hydro 1.50×10^4 $p_{g,\,n,\,t}[\mathrm{MWh}]$ 1.00×10^4 5.00×10^{3} 0 50 100 0 150 t