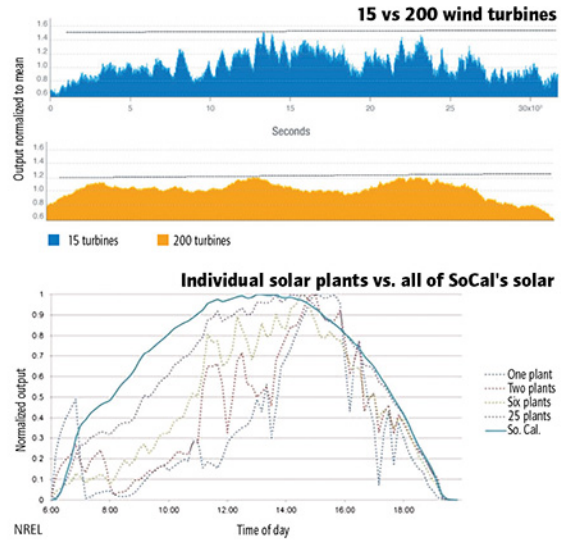
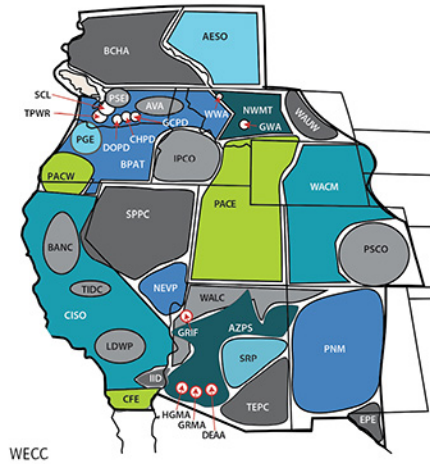
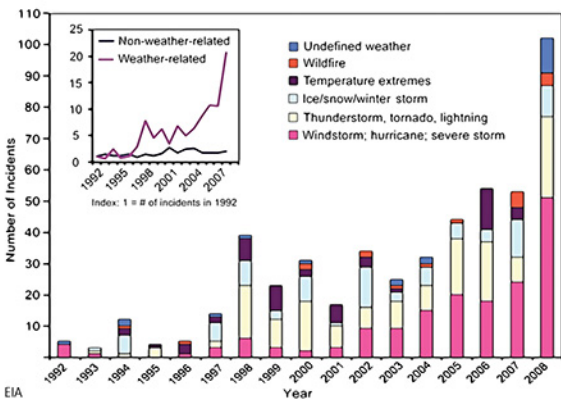


How geographic smoothing can moderate the ups and downs of renewables



Major weather-related disturbances to the U.S. grid, 1992-2008



Balancing act

38 distinct balancing authorities are tasked with keeping electricity supply and demand equal in the Western Grid. Renewable energy advocates would like the authorities to consolidate or at least cooperate and share more.