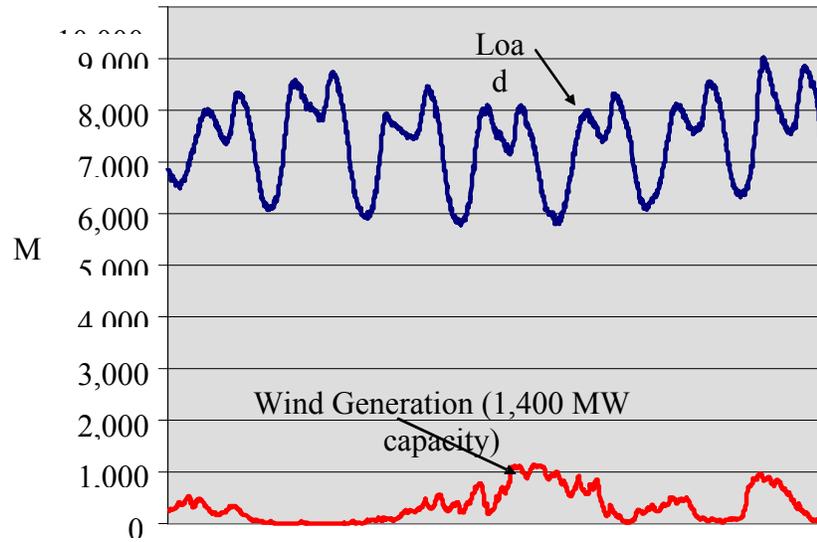


Chapter 12: Capacity and Flexibility Resources

megawatts of installed wind capacity. Figure 12-2 illustrates a typical weekly load pattern at five-minute intervals, with a sharp daily ramp in the morning as people rise, turn on electric heat, turn on lights, take showers, and as businesses begin the day.

It also shows the Bonneville balancing area wind generation from the same period, illustrating the irregular pattern typical of wind generation. The data from this week will be used in several subsequent graphs, focusing on shorter time intervals and illustrating particular issues.

**Figure 12-2: Example Load and Wind Pattern
BPA January 1-7, 2008, Midnight to Midnight**



Focusing on a single day, January 7, 2008, Figure 12-3 highlights a single operating hour, from 6:00 a.m. to 7:00 a.m.