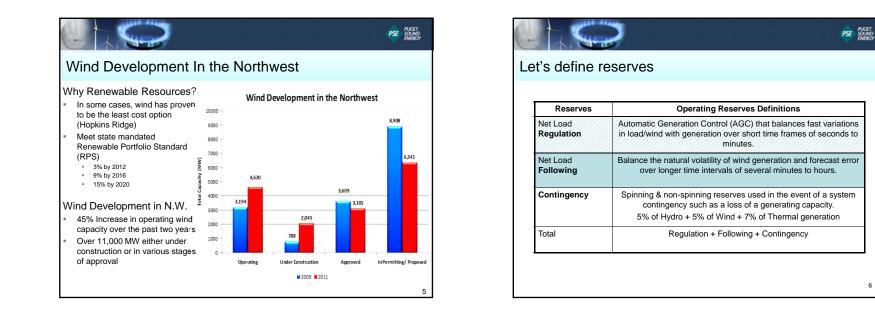
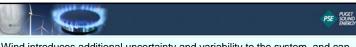




6

8





Wind introduces additional uncertainty and variability to the system, and can impact the reserves need in every hour, not just peak hours.

- Uncertainty what level of generation will be observed in the future?
- Variability even with a perfect forecast, wind generation can still fluctuate within an hour
- Not static reserves level varies by time of day, season, and wind forecast

