

## **SYSTDG OVERVIEW**

SYSTDG is the regionally approved computer model used to determine the spill caps that manage spill on the Lower Columbia and Snake River projects in order to keep total dissolved gas (TDG) levels from exceeding 115% TDG in project forebay and 120% TDG in project tailwater.

### **INPUTS:**

1. Hourly project flows
2. Hourly water temperatures
3. Hourly forebay elevations
4. Hourly tailwater elevations
5. Hourly winds
6. Observed hourly TDG levels in forebay and tailwater of Columbia and Snake River projects
7. Hourly spill rates in kcfs are calculated based on spill regime, spill cap and powerhouse capacity

### **OUTPUTS:**

1. Calculates hourly TDG levels in forebay and tailwater
2. Calculates the high 12 hour average TDG exceedances for project forebay and tailwater
3. Hourly spill caps for each project on Lower Columbia and Snake River