

# Integrated Resource Plan

TVA'S ENVIRONMENTAL AND ENERGY FUTURE



## TVA'S INTEGRATED RESOURCE PLANNING PROCESS

- TVA's power supply planning process considers a long-range set of options for supplying electric power now and into the future to consumers in the Tennessee Valley region. These options ensure flexibility of supply while providing reliable, low cost power to customers.
- The process of long-range power supply planning can be divided into six broad phases:
  1. identify public issues and concerns
  2. translate issues and concerns into evaluation criteria, resource options for power generation, and uncertainties that might arise
  3. combine resource options into strategies for providing power over the long-term
  4. identify possible future conditions, or what the world might look like in several years (uncertainties)
  5. construct scenarios (futures/worlds)
  6. use trade-off analysis to find the best strategy for the future

**TVA needs your help** in balancing power supply demands while providing low cost, reliable power. We invite your comments on the scope of TVA planning.

- In addition to the cost and reliability of power, some of the other issues that will be addressed in this power supply planning cycle include:
  - the effects of power production on the environment,
  - the changing regulatory framework (especially concerning CO2 emissions and other climate change issues),
  - the availability and use of renewable power resources,
  - the effectiveness and implementation of demand side management options, including energy efficiency,
  - determining business risks (such as transmission line siting & fuel transportation) and
  - handling waste and byproducts of TVA's power operations.
- In developing a long-range resource plan, TVA will be seeking public input on the following questions:
  - Should the current power generation mix (e.g., coal, nuclear power, natural gas, hydro, renewables) change? If so, how?
  - Should renewable power be added in the Valley at a significant scale? If so, how?
  - What level of energy efficiency and demand response should be included in planning for future energy needs and how can TVA directly affect electricity usage by consumers?
  - And how will all of this affect reliability and the price we pay for electricity?
- Ultimately, the power supply plan that is adopted by the TVA Board will guide actions by TVA.

You can participate in this cycle of TVA's integrated resource planning process by submitting comments about the scope of the planning TVA should consider. You may submit comments at one of the public meetings or online at [www.tva.gov/IRP](http://www.tva.gov/IRP).