



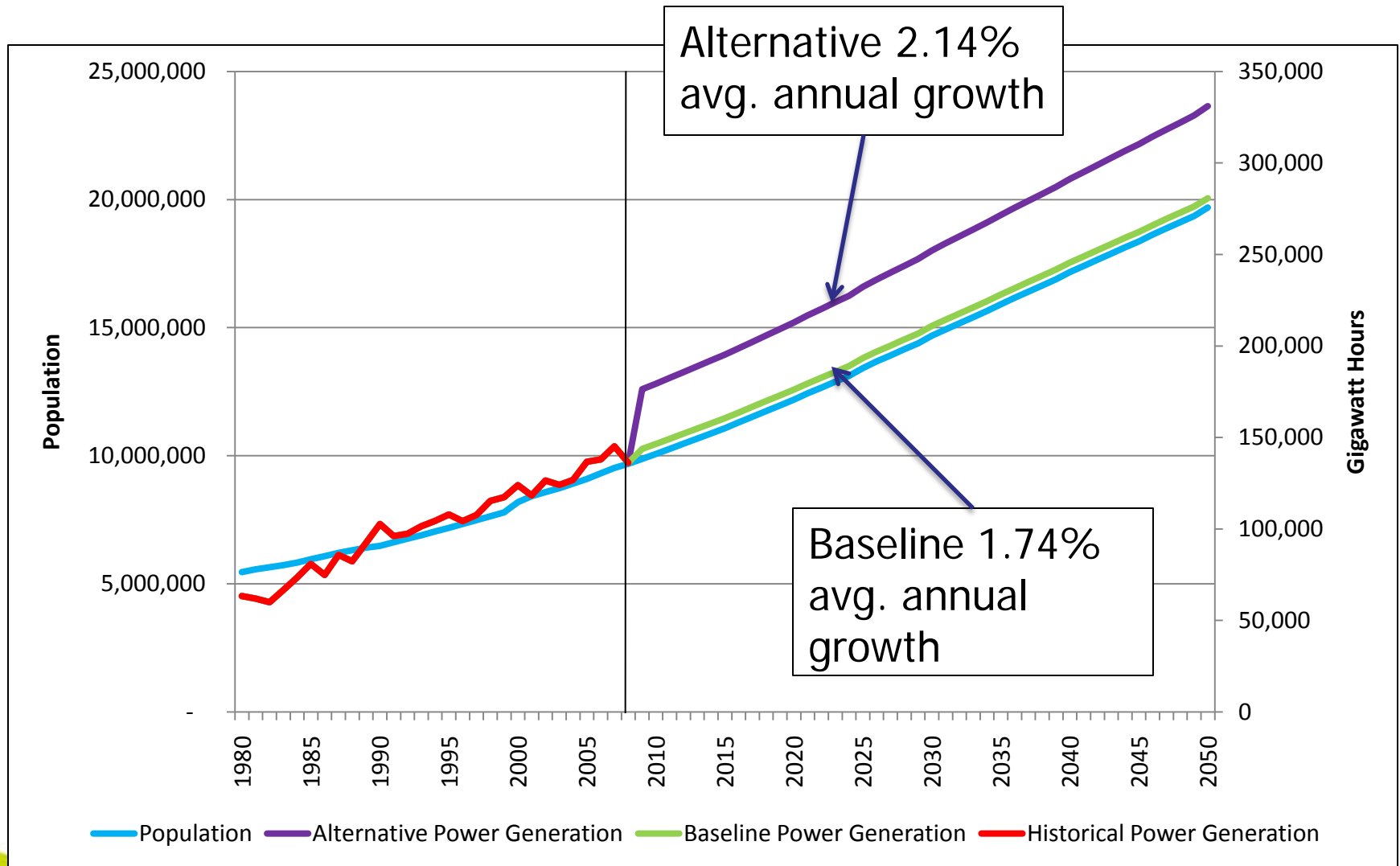
Georgia's
State Water Plan



Energy Demand Allocation

Council Meeting 9
February 10, 2011

www.georgiawaterplanning.org



Statewide Energy Demand

STATEWIDE ENERGY DEMAND

	<u>2010</u>	<u>2050</u>
OPB Population	10,069,700	19,686,375
Statewide Energy Demand Forecast (GWh)	179,000	330,000
Calculated Population Based Energy Demand (GWh/capita)	0.02	0.02

Note:

1. Values for energy demand are representative of the "Alternative" growth scenario.
2. Under the "Alternative" growth scenario statewide energy demand will exceed capacity in the 2030 timeframe.
3. Approximately 189 MGD of additional consumptive water demand (statewide) will be needed as estimated in the "Alternative" growth scenario.

Regional Energy Demand

LOWER FLINT-OUCHLOCKONEE REGIONAL ENERGY DEMAND

	<u>2010</u>	<u>2050</u>
OPB Population_LFO	374,935	541,265
Calculated Population Based Energy Demand_LFO (GWh)	6,665	9,073
Current & Planned Generating Capacity in the Lower Flint-Ochlockonee Region (GWh)	21,155	32,639

Note:

1. Current generating capacity for the Lower Flint-Ochlockonee Region includes:
 - a. Crisp County Power Commission combined cycle plant in Worth County
 - b. Baconton Power Plant in Mitchell County
 - c. Plant Mitchell in Dougherty County
 - d. Hydropower (Woodruff Dam + Lake Worth)
2. Planned Capacity includes all current capacity with the following additions/modifications:
 - a. Bainbridge Power Facility in Decatur County
 - b. Longleaf Energy Station in Early County
 - c. Conversion of Plant Mitchell from coal & oil to biomass
3. Estimates of current & installed capacity represents an inflated value of actual achievable annual energy production ($= \text{Total Installed MW Capacity} \times 365 \times 24 / 1,000 = \text{Maximum GWh}$)