



WORLD Resources Institute



**Emerging Scarcity in a Land of Plenty: Water and Water Policy in Canada** Charles Iceland, CFA April 17, 2012



### U.S. Intelligence Community Assessment on Global Water Security



798325AI (G08246) 1-12

**Global water consumption** 



#### Source: I.Shiklomanov

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### Water consumption and withdrawals 2025





### **Baseline water stress – ca. 2000**





# Projected change in water stress – 2025 (A1B scenario)





- Seasonal water stress
- Drought
- Flood
- Pollution

We will add a number of scarcity, pollution, and governance indicators to our global maps by Dec. 2012



## 55% of SE Asian current power plant design capacity would see water stress grow 2 to 8 times worse by 2025

Southeast Asia, Long Term Change in Water Stress and Power Plants





### 73% of current irrigated crops in the United States would see water stress grow 2 to 8 times worse by 2025

USA, Change in Water Stress by 2025 in areas with Irrigated Agriculture





# **2050 global energy requirements.** The World Energy Council estimates that energy supplies must **double** by 2050 to meet energy demand.

**2050 global food requirements**. FAO estimates that feeding a global population of 9 billion people in 2050 will require a **70% increase** in total food production.





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