INVEST H2O FORUM 2018: "INVESTING IN RESILIENCY"
OCTOBER 17, 2018 • HOUSTON, TEXAS

Addressing the Nation's Energy-Water Challenges:

Impacts for Texas, the Southwest U.S., and the Gulf Coast

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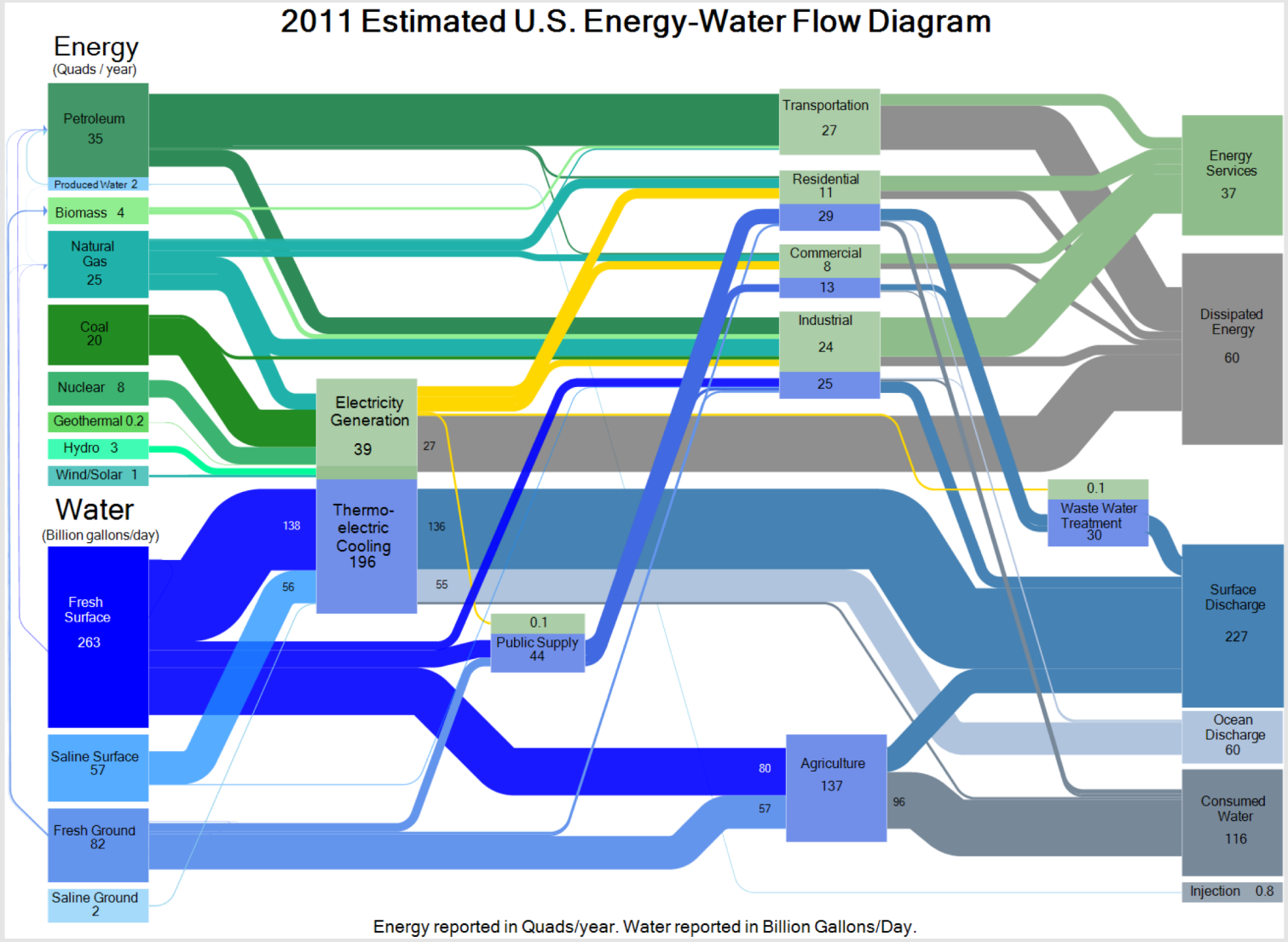
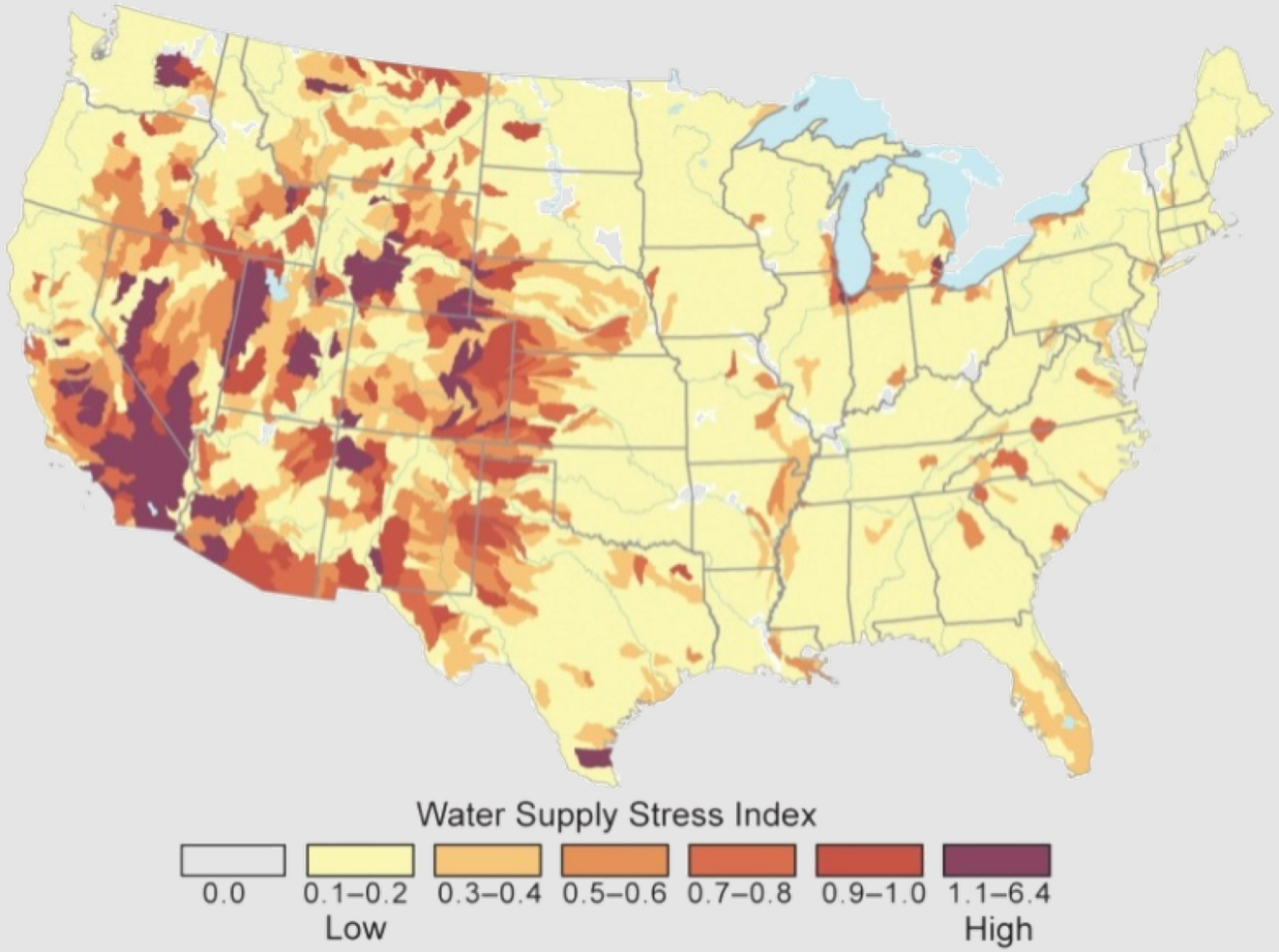
United States Department of Energy

DOE's Role in the Energy-Water Nexus



Energy reported in Quads/year. Water reported in Billion Gallons/Day.

Water Stress is a Growing Concern

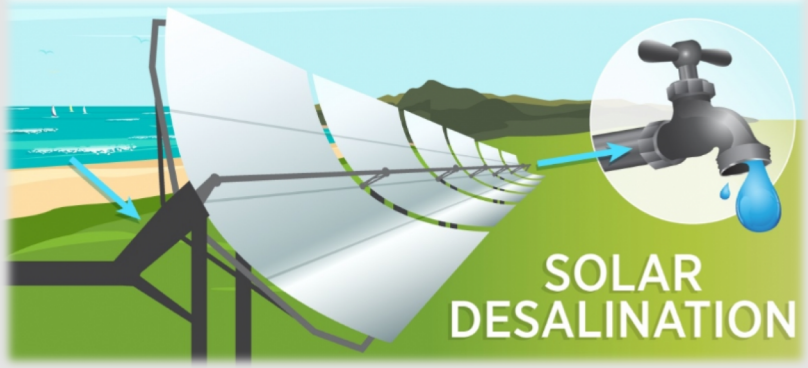


Examples of DOE Energy-Water Investments

LOW-ENERGY, LOW-COST DESALINATION

CONVERTING MUNICIPAL WASTEWATER TO ENERGY

CONCENTRATED SOLAR THERMAL FOR DESALINATION



DRY COOLING FOR POWER GENERATION

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CHANGING WHAT'S POSSIBLE

The Water Security Grand Challenge

The Water Security Grand Challenge

Focus on transformational technologies that address key domestic and global water issues.

- Cost-competitive desalination
- Low-cost treatment methods for produced water
- Reducing water impacts in the power sector
- Increasing resource recovery from municipal wastewater
- Developing small, modular energy-water systems

Examples of Past DOE Prizes

WAVE ENERGY PRIZE
U.S. DEPARTMENT OF ENERGY

NATIONAL CLEAN ENERGY BUSINESS PLAN COMPETITION
U.S. DEPARTMENT OF ENERGY

OPEN CATALYST
IDEATE INNOVATE PROTOTYPE INCUBATE

jump
Join the discussion • Unveil innovation • Motivate transformation • Promote tech2mkt

AMERICAN MADE SOLAR PRIZE
U.S. DEPARTMENT OF ENERGY

Next Steps

- Public Launch (Soon!)
- Stakeholder Workshop in Golden, Colorado (October 25)
- Develop and implement supporting initiatives
- On going partnerships and stakeholder engagement