



Water Management in the Commercial Real Estate Industry

Laura Michela

Presentation Overview

1. Water Scarcity
2. Why is Commercial Water Management Important?
3. Company Background and Project Rationale
4. Previous Analysis
5. Project Details
6. Water Analysis Tool
7. Recommendations and Next Steps



› Overview

› The Issue

› Shorenstein

› Project

› Details

› Analysis Tool

› Next Steps

Did you know?



› Overview

› The Issue

› Shorenstein

› Project

› Details

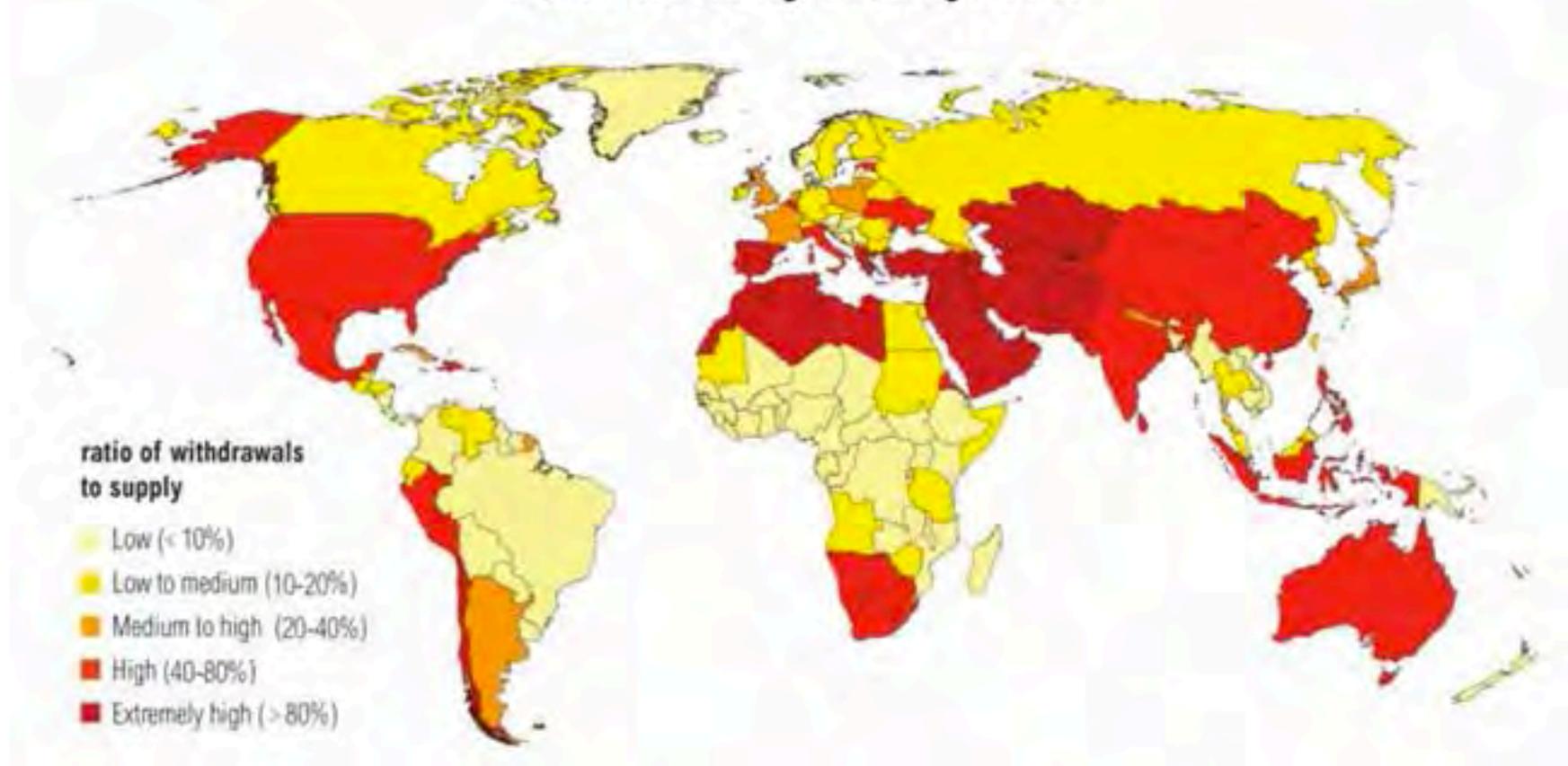
› Analysis Tool

› Next Steps

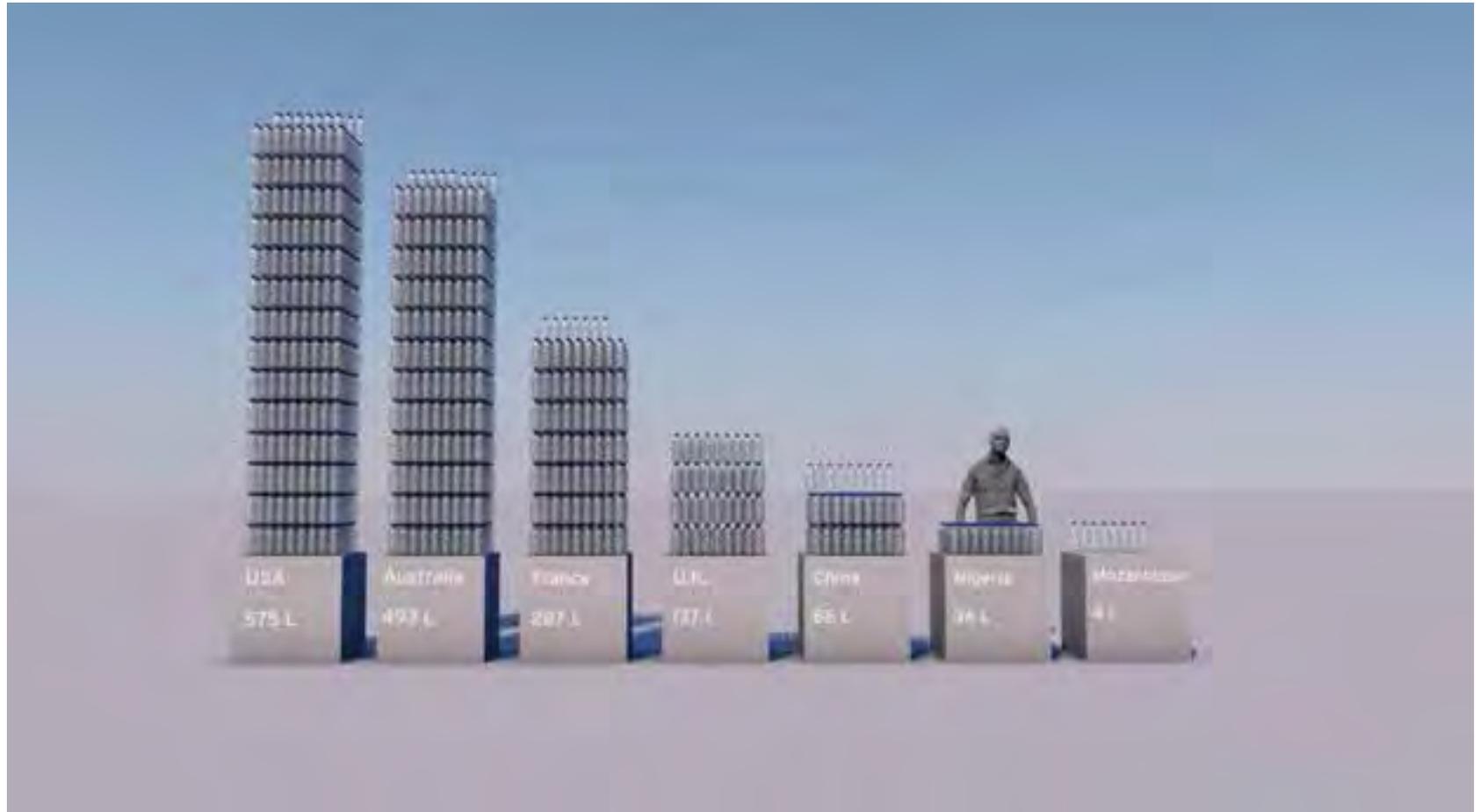
Source: carbonvisuals.net

It's estimated that 33 countries will face extreme water stress by 2040

Water Stress by Country: 2040



The US uses more water per capita than any other country!



In the United States, buildings account for:



39% of total energy use



68% of total electricity consumption



12% of total water consumption



38% of carbon dioxide emissions

Shorenstein Realty Services

- National real estate investor
 - 27 million ft² portfolio in 25 markets
- Privately owned and headquartered in San Francisco
- Provides asset management, leasing, property management, development and construction services to the properties in its portfolio



› Overview

› The Issue

› Shorenstein

› Project

› Details

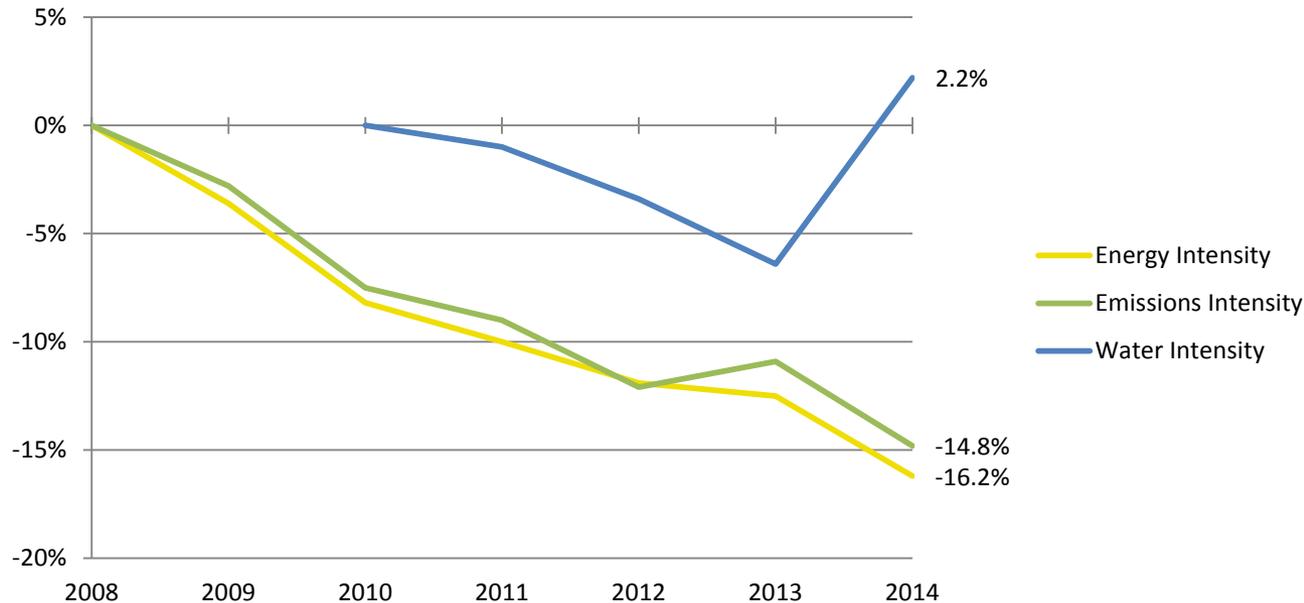
› Analysis Tool

› Next Steps

To learn more about Shorenstein, visit shorenstein.com

Company Overview and Project Rationale

- As a Better Buildings partner, SRS committed to reducing energy use and greenhouse gas emissions 20% by 2020
 - Shorenstein also committed to a 6% reduction in water use



2015 Water Performance Assessment

Shorenstein Realty Services, L.P.		
Water Performance Assessment - Complete and Return by July 9, 2015		
Please complete and return this form to Laura Michela, EDF Summer Fellow by July 9, 2015. E-mail to: lmichela@shorenstein.com		Complete Cells in Yellow
Property Information		
Property Name:		
Property Address:		
Chief Engineer:		
Building Gross Square Footage:		
Total Building Population:		
Water Use Information		
Total Water Use in 2014 (cf):		
Total Water Use in 2014 (gallons) (1 cf = 7.48 gallons):		
Total Water Cost in 2014 (\$) - include sewer, storm, taxes, etc.:		
Restroom Water Use		
Toilet GPF:		
Urinal GPF:		
Bathroom Sink GPM:		
Breakroom Water Use		
Breakroom Sink GPM:		
Number of Breakroom Dishwashers:		
Other Metered Water Use		
Chilled Water Make Up (gallons):		
Boiler Make Up (gallons):		
Cooling Tower Make Up (gallons):		
Tenant Tower Make Up (gallons):		
Irrigation (gallons):		
Retail (gallons):		
Other Uses		
Please explain any other water uses that are not accounted for above (e.g., recreational or hospitality uses, water features, fire mains, etc.)		
Additional Information		
Do you have any concerns with your building's water use?		



» OVER

» ENGAGEMENT

» ADDITIONAL