



# Hydropower Myths and Facts: Thoughts from Around the Globe

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**MWH**<sup>®</sup>

*BUILDING A BETTER WORLD*

# MWH in Alaska

- In Alaska for more than 30 years
- 35 Local Staff with Specialized Expertise:
  - Mining
  - Oil and Gas
  - Hydropower
  - Water and Wastewater





# Hydropower: Meeting Energy Needs Worldwide

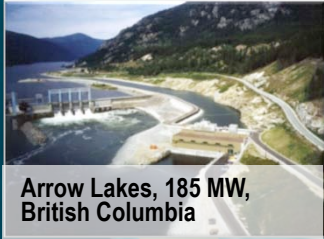
**Hydropower provides  
16-19% of the world's  
electricity.**

**The demand for energy  
continues to rise.**

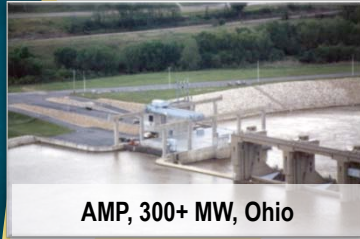
*Source: International Hydropower Association  
and World Energy Outlook 2006*



# Turning to Hydropower



Arrow Lakes, 185 MW,  
British Columbia



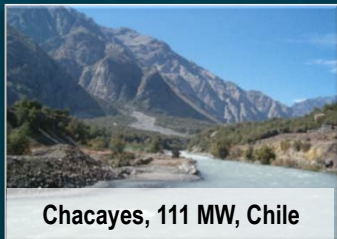
AMP, 300+ MW, Ohio



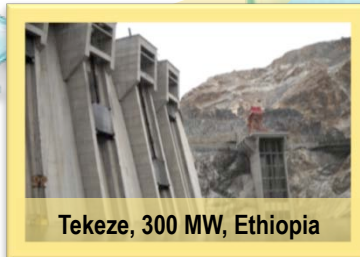
Kárahnjúkar, 690 MW, Iceland



Nadarivatu, 42 MW, Fiji



Chacayes, 111 MW, Chile



Tekeze, 300 MW, Ethiopia



Neelum-Jhelum, 969 MW,  
Pakistan

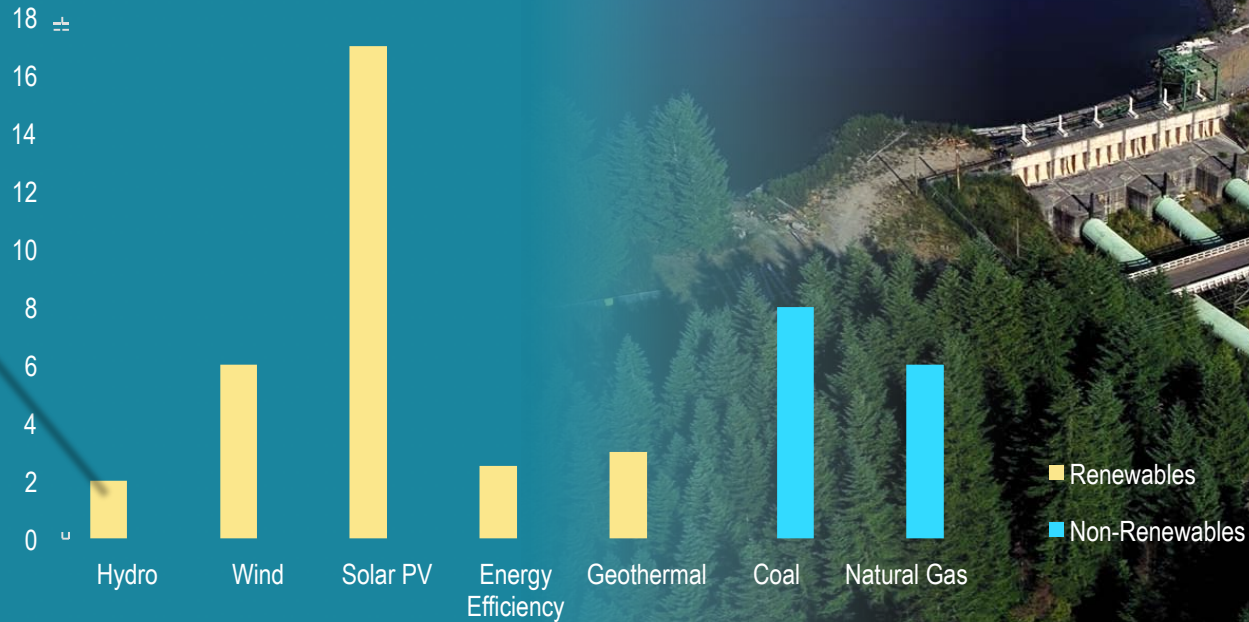
Hawaii





# Hydropower is Cost-Effective

Levelized Cost of Electricity per KWh (cents)



Hydro =  
2¢/kWh

Source: National Hydropower Association/Navigant Consulting 2010



# Kárahnjúkar Hydropower Project, Iceland

**690 MW**





# Kárahnjúkar Hydropower Project, Iceland

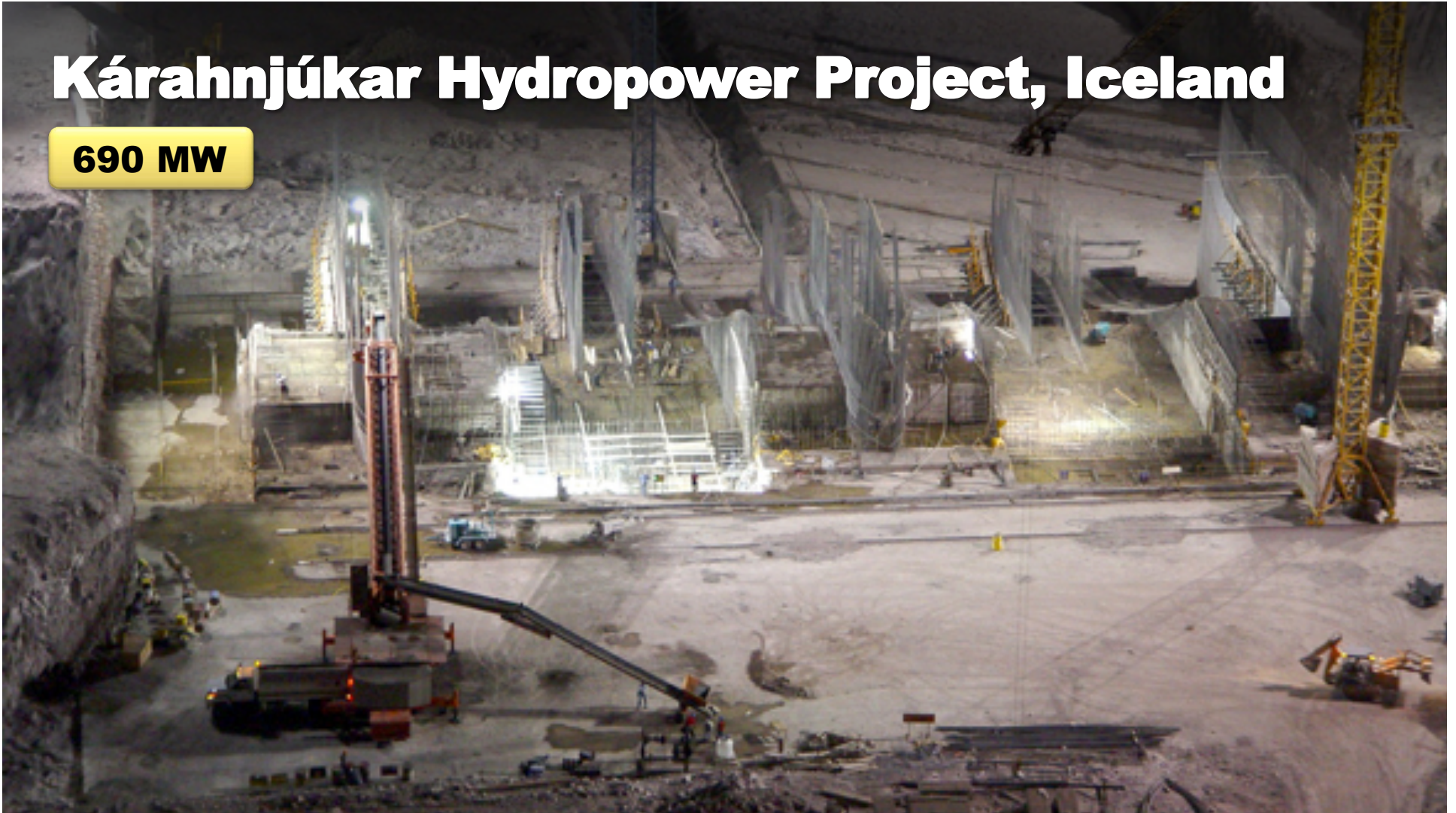
690 MW





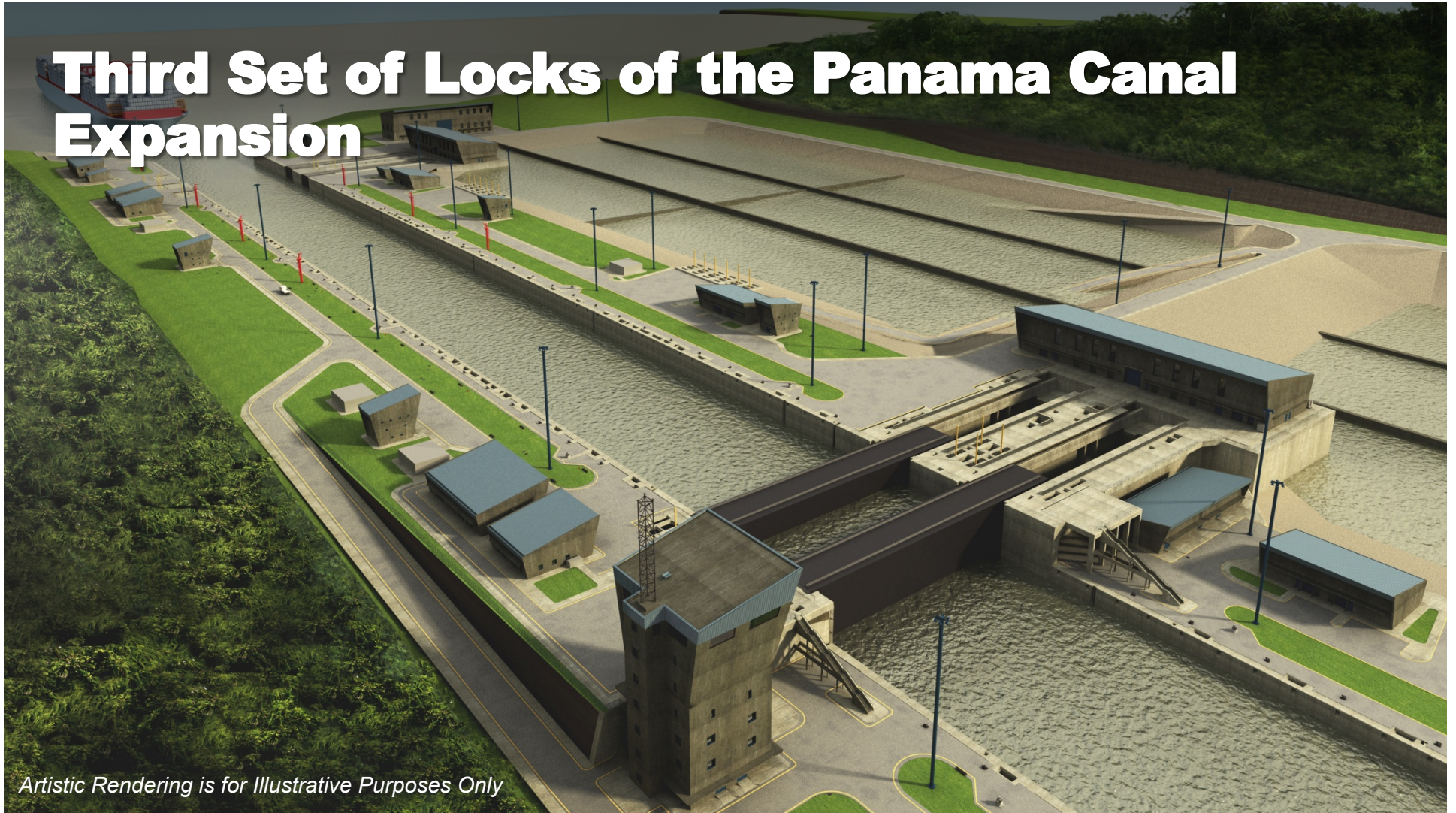
# Kárahnjúkar Hydropower Project, Iceland

690 MW





# Third Set of Locks of the Panama Canal Expansion



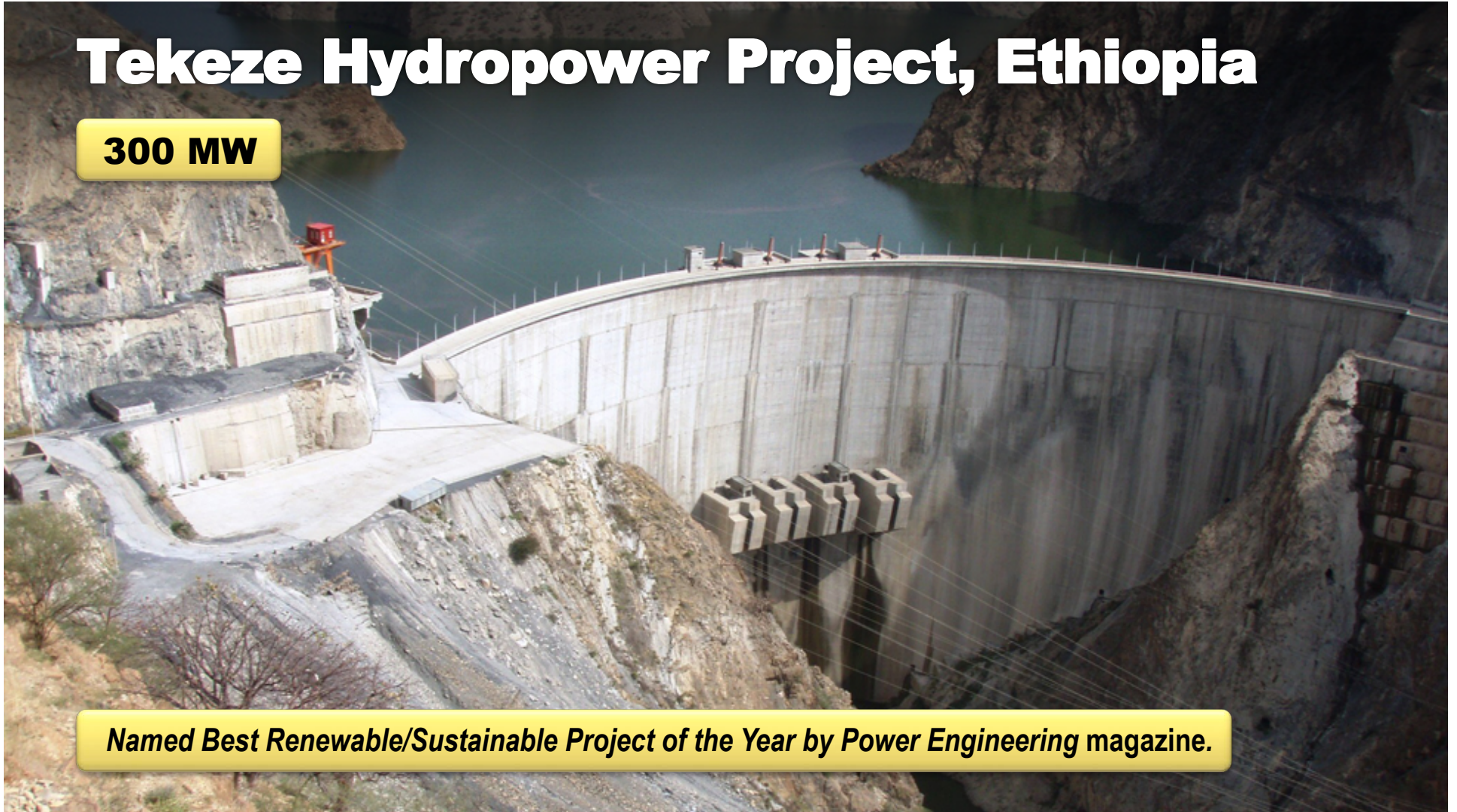
*Artistic Rendering is for Illustrative Purposes Only*



# Tekeze Hydropower Project, Ethiopia

**300 MW**

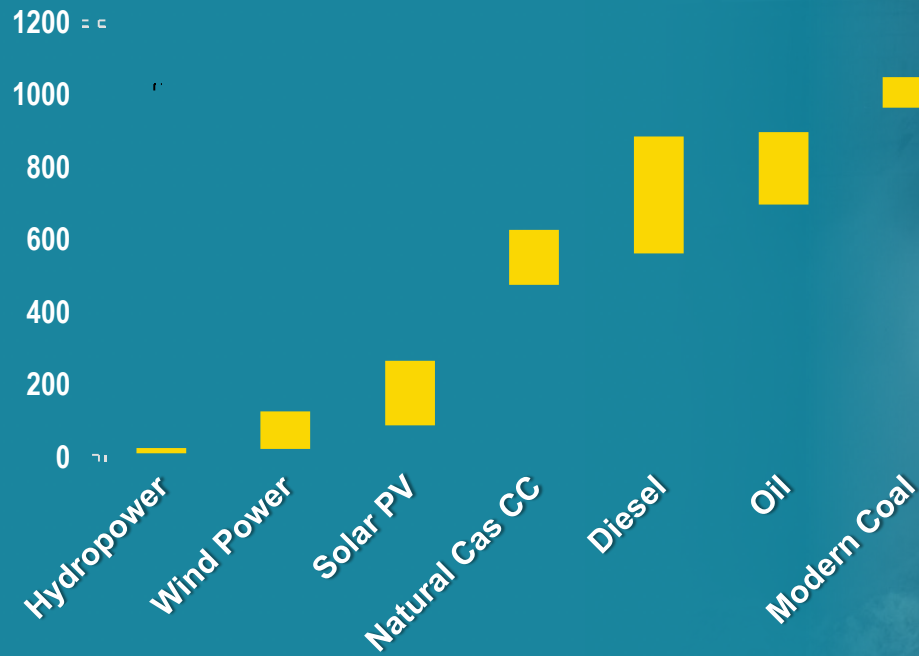
*Named Best Renewable/Sustainable Project of the Year by Power Engineering magazine.*





# Hydropower's Low Carbon Footprint

Emissions Range in grams CO<sub>2</sub> eq./kWh



# Thank You

***Our focus:***

**Conservation of the world's irreplaceable resource—water.**

***Our goal:***

**Building a Better World**

