



Colonial Pipeline Company

# Colonial Pipeline Overview



COLONIAL PIPELINE

1474

# Company Overview

**Largest** refined products pipeline in the United States

Headquartered in  
**Alpharetta, Georgia**

Nearly **1,100** employees

**460** in Alpharetta Corporate Office

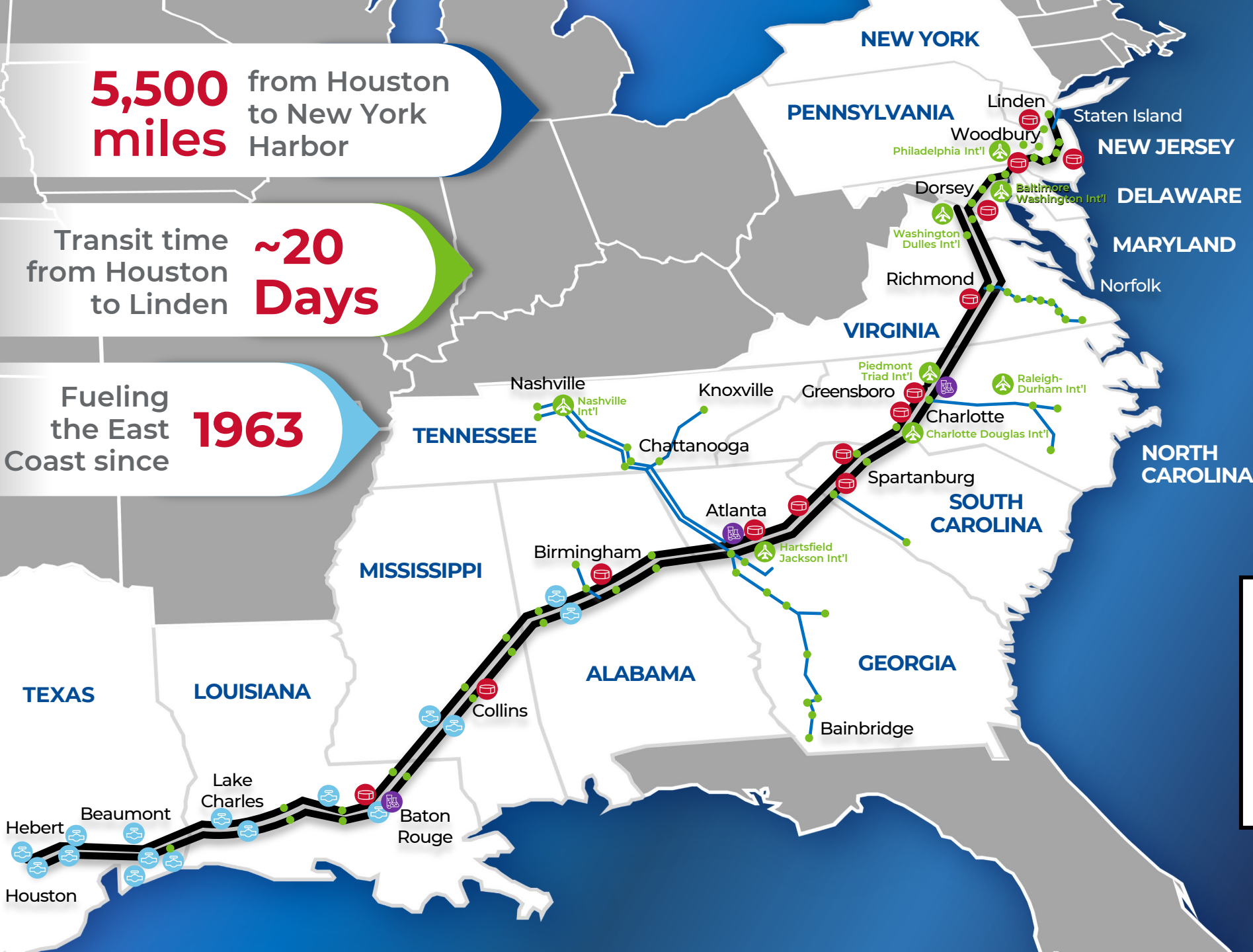
**Supports** communities, commerce, air travel, and our nation's security

# System Map

**5,500 miles** from Houston to New York Harbor

Transit time from Houston to Linden **~20 Days**

Fueling the East Coast since **1963**



- Main Lines
- Stublines
- 🚛 Breakout Tankage
- 🌳 Airport Delivery Facility
- 💧 Injection Station
- 🏭 Blending Facility
- Delivery Facility



# Colonial by the Numbers



Transports refined products for more than **50 million** Americans



**100 million** gallons per day



Services **8** Airports directly



Daily volume could fill **11,000** tanker trucks



Daily volume could fill the gas tanks on **7 million** cars



Services **28** refineries



Services **45+** military installations

COLONIAL PIPELINE

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# How Fuel Gets to You





# New Jersey Solar Generation

- Two locations, Woodbury Junction and Allentown Booster Station
- Total of 18,504 individual solar panels
- Enables the use of renewables for operation of the pipeline
- Panels at Woodbury Junction generate 5 MW, and Allentown generates 3.3 MW
- Generation supplements the energy needed to move product on the Colonial system











**THANK YOU**



# GRID RELIABILITY AND HYDROPOWER

## NASEO 2024 Energy Policy Outlook

NATIONAL HYDROPOWER  
ASSOCIATION




*National Association of  
State Energy Officials*

# The New York Times

## California Leaders Credit Cellphone Alert for Sudden Conservation

The jarring message warned millions of residents that blackouts could occur without immediate action.

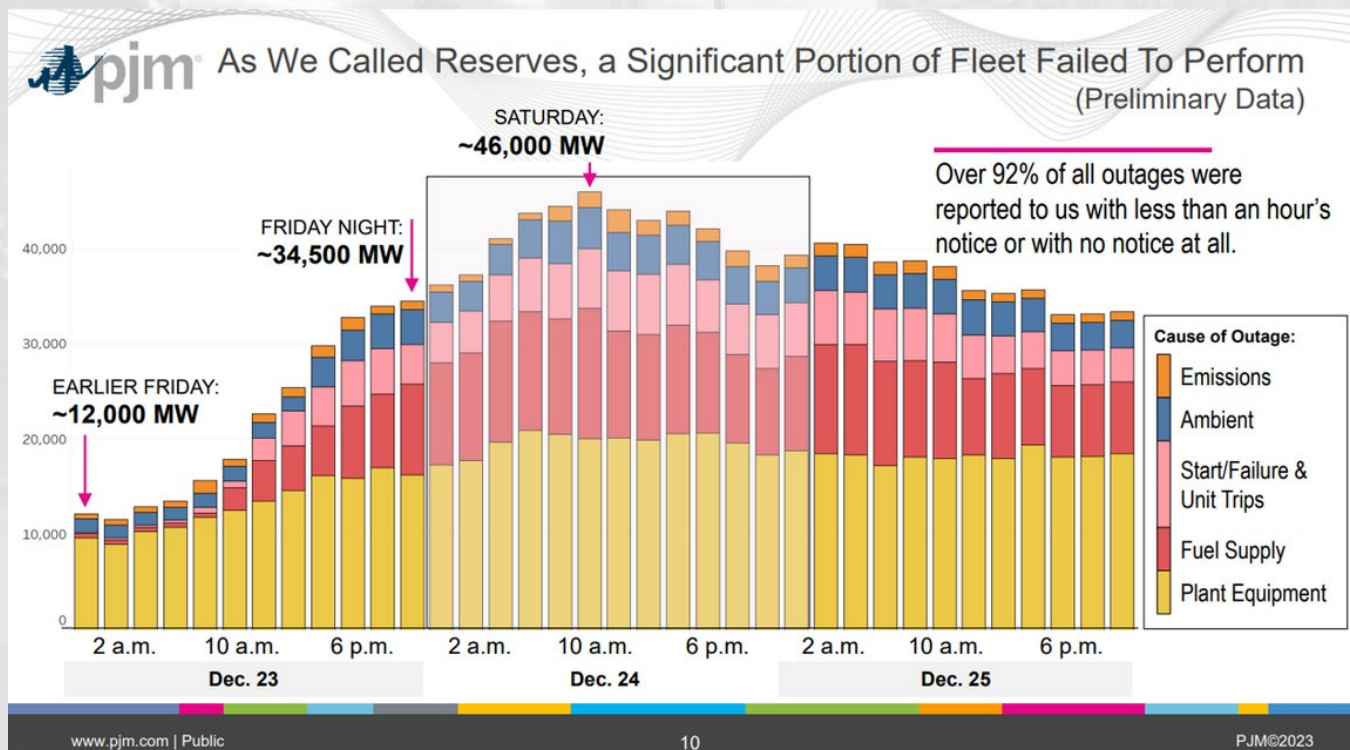
 Give this article



Power lines in Cathedral City, Calif., during the heat wave on Tuesday. Alex Welsh for The New York Times

## CASE STUDY 1: CALIFORNIA'S ENERGY GRID CRISIS

# CASE STUDY 2: PJM & THE POLAR VORTEX



- **PJM – Dec 24th: Polar Vortex**
- **PJM lost 46,000 MWs of generation**
- **Hydro asked to keep generating past midnight**
- **Moreover, PSH asked not to pump water to reduce load**
- **To my knowledge, little or none of 45 GW were hydro**

# CASE STUDY 3: ORPC AND THE IGIUGIG VILLAGE



- Sustainable, local energy providing baseload power for an off grid village in Alaska
- Proven operations through harsh conditions and reduced the community's diesel consumption by 60-90%
- Set the record as the longest operating riverine hydrokinetic project in all of the Americas
- Replicable technology and partnership for other off-grid, remote and rural communities to firm-up their power source

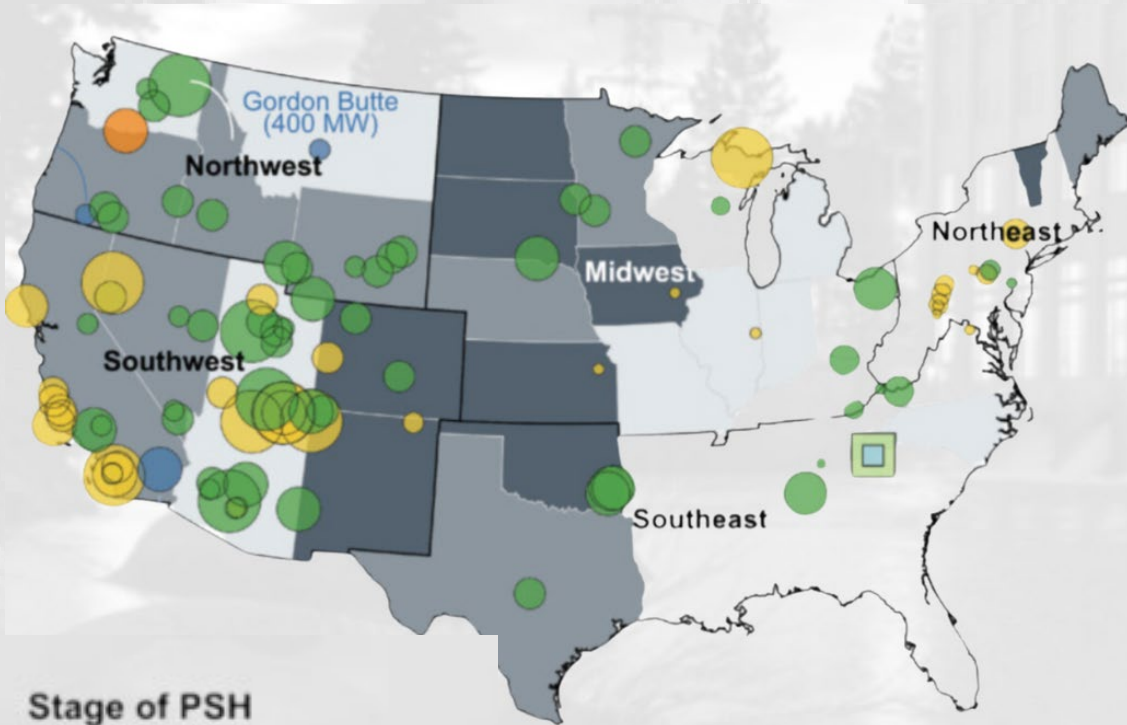


# STATE OF THE U.S. HYDROPOWER INDUSTRY IS STRONG

- 31% of U.S. renewable energy
- Over 6% of all electricity generated
- 96% of current U.S. long duration energy storage
- 80 GW of hydropower capacity
- 22 GW of pumped storage hydropower capacity

# HYDROPOWER HAS POTENTIAL FOR GROWTH

## US Pumped Storage Development Pipeline 2023



### Stage of PSH Development

- Pending Preliminary Permit\*
- Issued Preliminary Permit\*
- Pending License\*\*
- Issued License\*\*
- Under Construction
- Planning

- **95+ pumped storage projects in FERC pipeline (over 50 GWs)**
- **Almost 1 GWs of new, carbon-free electricity from the existing fleet from DOE's recent \$72M investment**
- **DOE funded only 34% of requests so lots of additional growth from existing fleet possible**





**NORTHWEST**  
PUBLIC BROADCASTING



## Environmental And Energy Industry Groups Commit To Working Together On (Some) Hydro Projects

By Courtney Fle...

# UNCOMMON

## DIALOGUE

**"U.S. Hydropower: Climate Solution and Conservation Challenge"**

The New York Times

### *Environmentalists and Dam Operators, at War for Years, Start Making Peace*

Facing a climate crisis, environmental groups and industry agree to work together to bolster hydropower while reducing harm from dams.

Los Angeles Times

### Can hydropower help solve the climate crisis? This \$63-billion plan is banking on it



## ENERGYWIRE

THE T

RENEWABLE ENERGY

### DOE-backed hydro group launches to cut CO2

David Iaconangelo, E&E News reporter

Published: Wednesday, October 14, 2020

HYDROPOWER + RIVER + CLIMATE



# CLEAN ENERGY GRID AT RISK DUE TO POTENTIAL WAVE OF RETIREMENTS

- Licenses for 459 hydropower facilities, representing 17 GWs, are set to expire by 2035.
- Relicensing takes, on average, 7.6 years to complete
- Projects of greater than 10 MW reporting licensing costs exceeding \$1M, and projects more than 100 MW reporting cost around \$10M or more
- Survey: 36.4% of hydropower industry asset owners said that they were "actively considering" decommissioning a facility





# **CURRENT CHALLENGES**

**Lack of Support for  
Existing Hydropower**

**Antiquated Licensing  
Process**

**Market Design  
Failures**



# 4 HOMEWORK QUESTIONS FOR STATE ENERGY OFFICES

- 1) Can my state benefit from additional long-duration energy storage to balance variable wind and solar, and if so, are we considering Pumped Storage Hydropower?
- 2) Can we add generation to existing non-powered dams?
- 3) As we move to a cleaner grid, is water power being treated similarly to wind and solar on our state clean energy standards?
- 4) Are local hydro operators in danger of surrendering their hydro licenses?





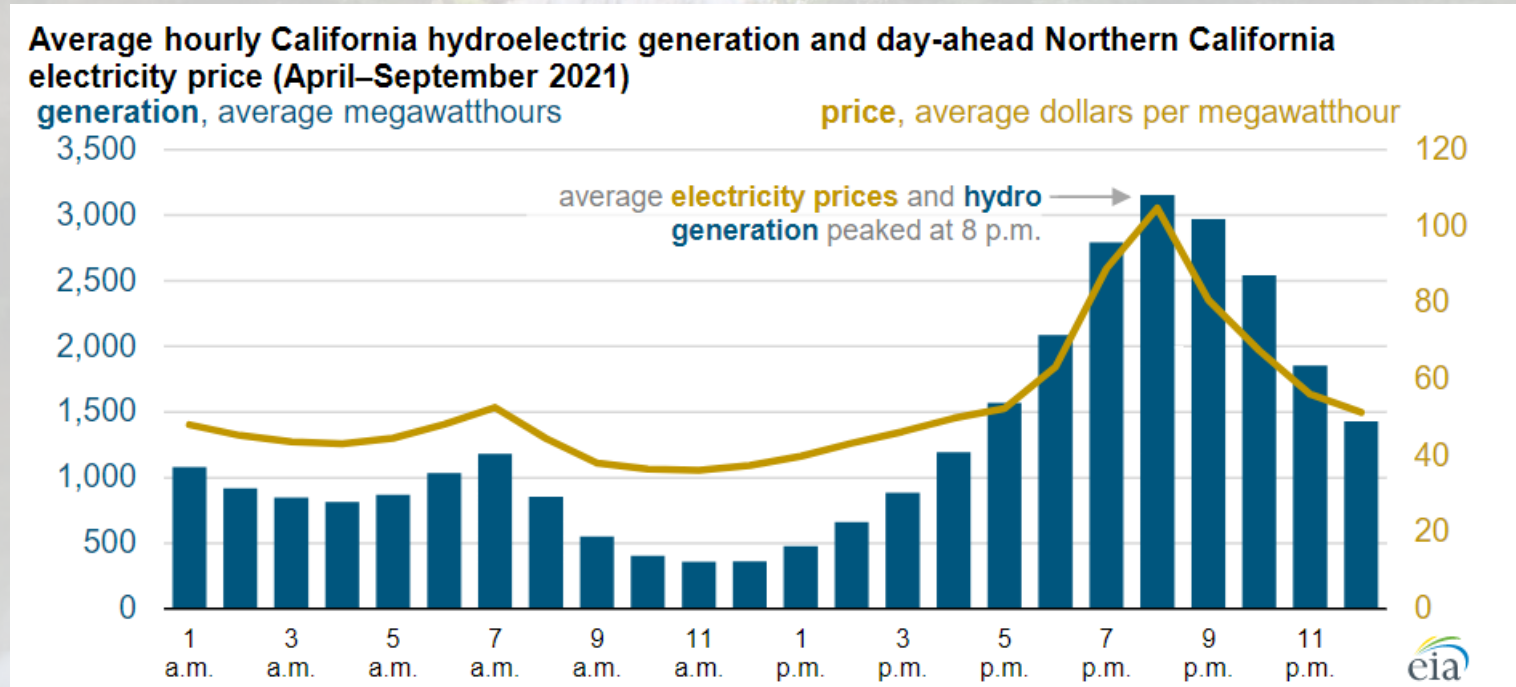
QUESTIONS?



# HYDROPOWER & RELIABILITY

Even during drought, hydro is still there when we need it the most.

The overall western hydropower fleet sustains about four-fifths of the average power generation during severe droughts.



**Program Description:** Solar for All aims to serve up to 100,000 low to moderate income families DC through single family and community solar. Participants should expect to see a 50% savings on their electricity bill, or approximately \$500 annually.

Residents Served: Almost 10,000

Solar Capacity Installed: Over 37 MW

Community Resilience Hub Opportunity

- Serve residents beyond electric bill
- First DC Resilience Hub – 2024
- Provide community resilience services
  - 60.8 kW solar system
  - 180 kWh battery storage system
  - Microgrid controller
  - 21 hr min/72 hr typical

## Faunteroy Community Enrichment Center

