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# Sustainable Development: Striking a Balance

## UP Energy Summit

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# A North American Perspective



- 2.2 mmbpd delivered
- 15% of total U.S. petroleum imports
- >2 million gas distribution customers
- 2,200 MW renewable energy
- **\$44 billion** growth program

# Enbridge in Michigan – since 1953

## Fueling Michigan's economy



- **5 pipelines** – energy to heat homes, fuel vehicles, power industry
- **85% of propane** heating Upper Peninsula and northern Michigan homes
- **250 employees & contractors** in **24 locations**
- **\$22.4 million** annual taxes

# The approach we need to take

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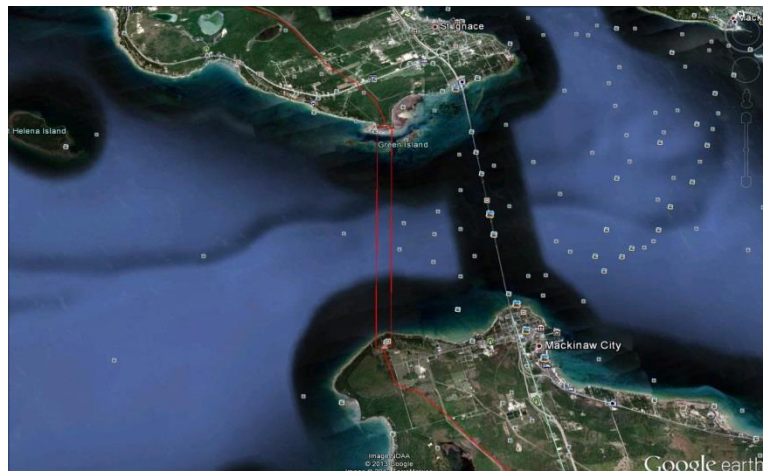




# Line 5: Safety in the Straits of Mackinac

**Preserving and maintaining an exceptionally well-built pipeline.**

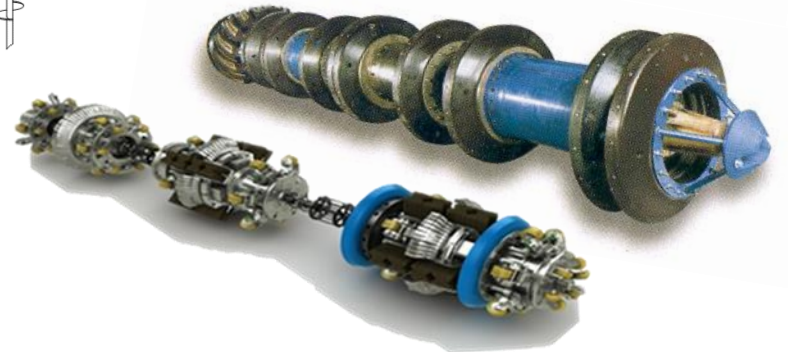
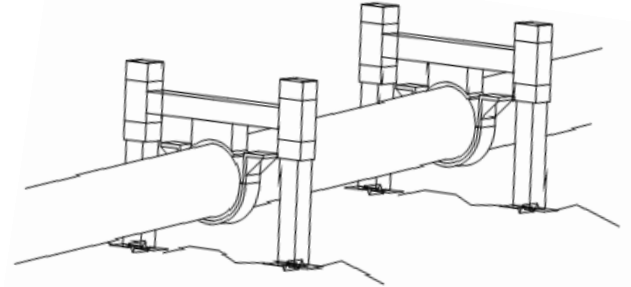
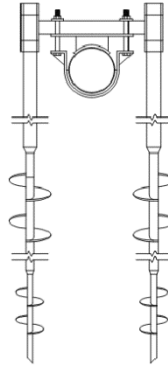
- Unique design
- Extra heavy pipe thickness
- Additional screw anchors
- Operated at low pressure - <25% of maximum design capabilities
- 24/7 monitoring
- Frequent, rigorous inspections



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# Harnessing, adapting and advancing technology for safety



Michigan Technological University  
Autonomous Underwater Vehicle (AUV)



Great Lakes Research Center  
real-time environmental  
monitoring buoy





  
**Thank You**

