



Gone with the Steam

How new nuclear power plants can re-energize communities when coal plants close

June 23, 2022

Devastating Impact of Coal Plant Closures....

- Two coal plants closed on the same day in rural Adams County, Ohio
- Loss of more than 700 jobs and devastation to the local economy
- Workers fled for jobs in Wyoming, Florida, Washington, Idaho, Wisconsin, Colorado, Oregon, and elsewhere
- The local school system has seen enrollment plunge and has cut positions
- “That money is never coming back” – Ty Pell [President of county commissioners]

Source: Washington Post, “In small towns across the nation, the death of a coal plant leaves an unmistakable void,” 2019

What Are We Replacing? At What Cost?

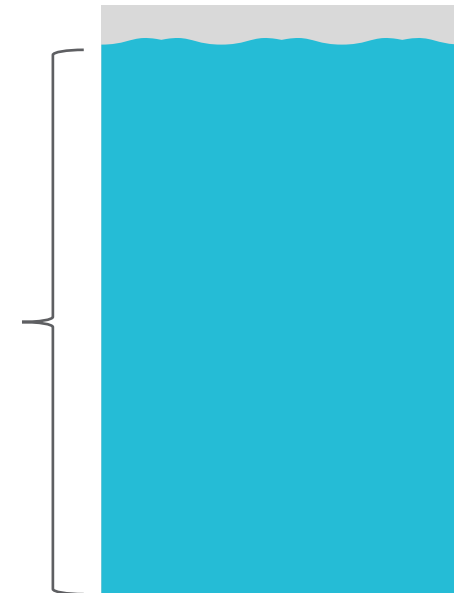
Retire Coal Plant

Replace with SMR/
Advanced Reactor

Coal Plant
Net 1,226 MW
68.0% CF
7,306,716 MWh

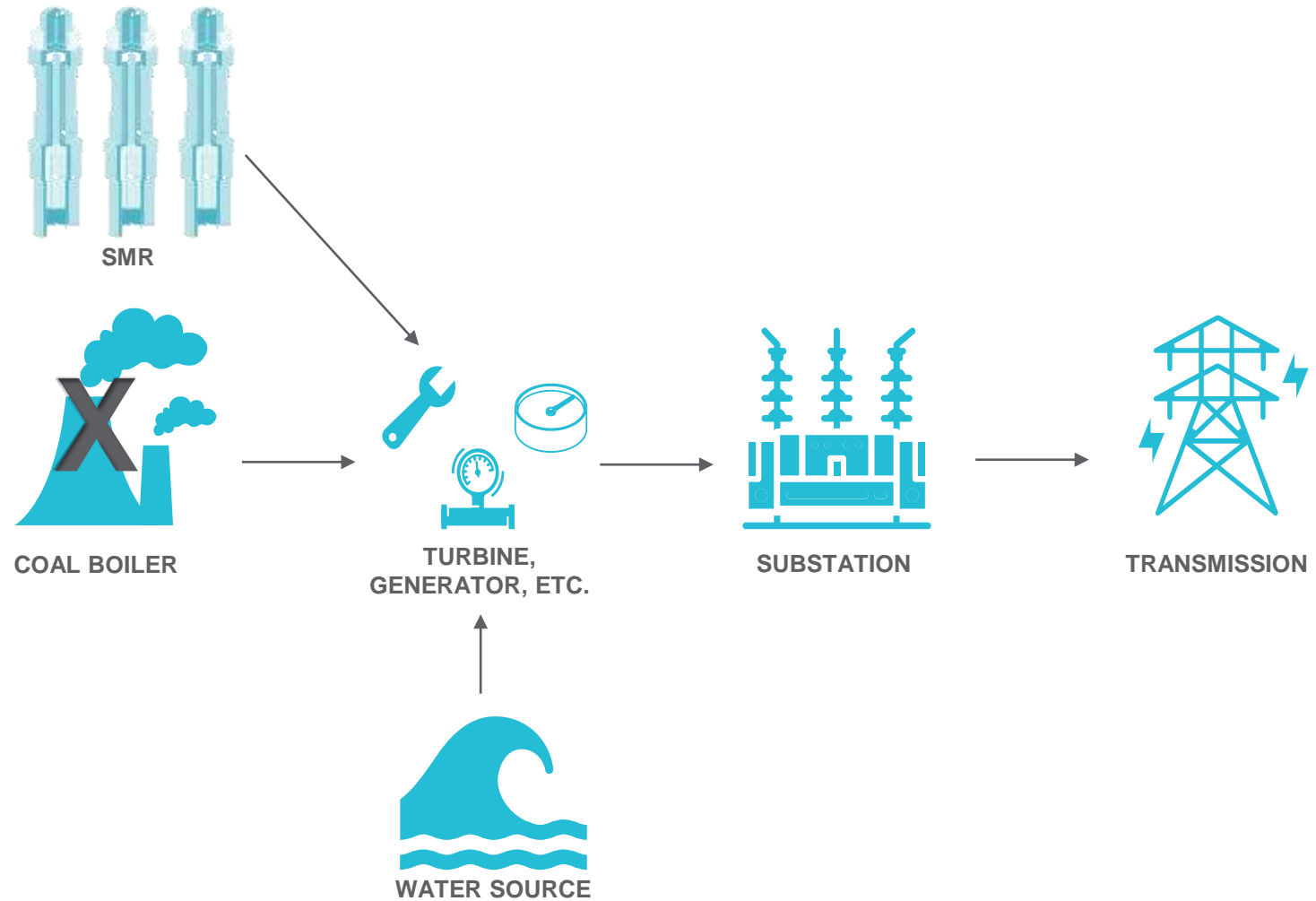


SMR
Net 878 MW
95.0% CF
7,306,716 MWh



Replacing the energy produced from the coal plant

Coal Plant vs. SMR Plant



Why are SMRs a Good Replacement?

Jobs By the Numbers

A SMR nuclear plant employs over two times the number of people as a coal plant

Nuclear

Jobs

237

**Coal
Jobs**

107

Why are SMRs a Good Replacement?

Jobs By the Numbers (Cont'd)

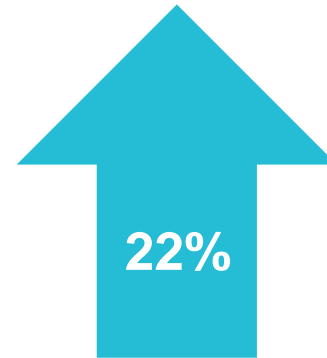
The median hourly wage rate different between Nuclear and Coal is.....

**Nuclear
Wage Rate**

\$41.32/hr

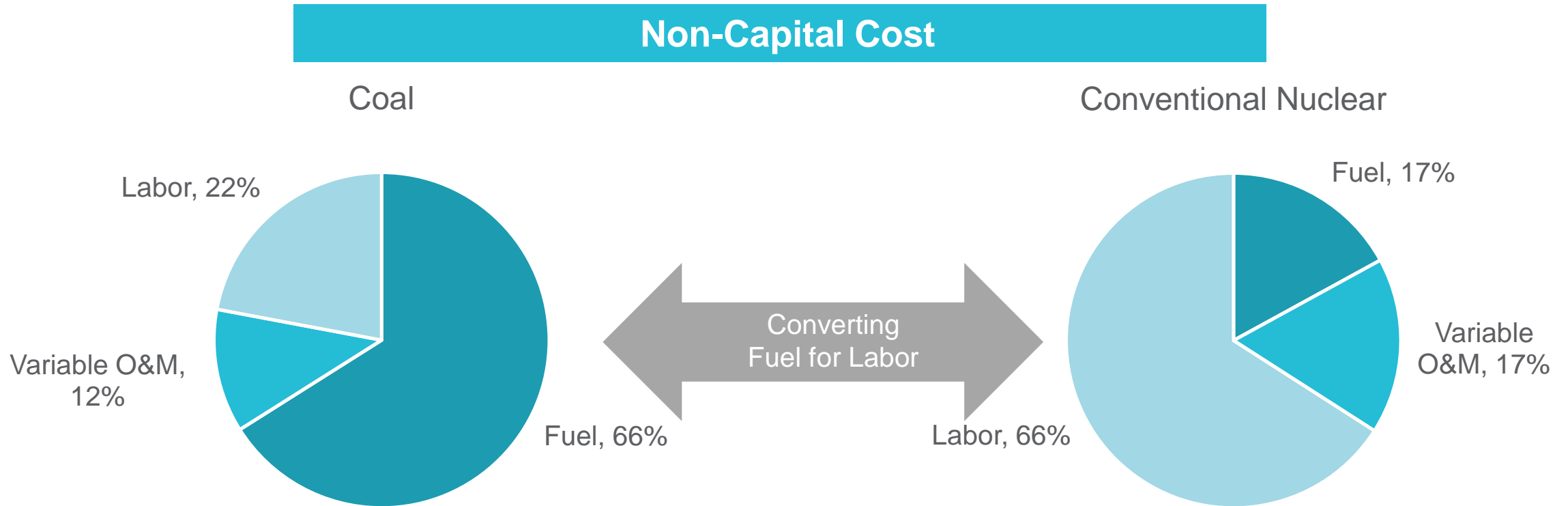
**Coal
Wage Rate**

\$33.64/hr



22%

How Can a SMR Provide More Better Playing Jobs and be Cost Competitive?

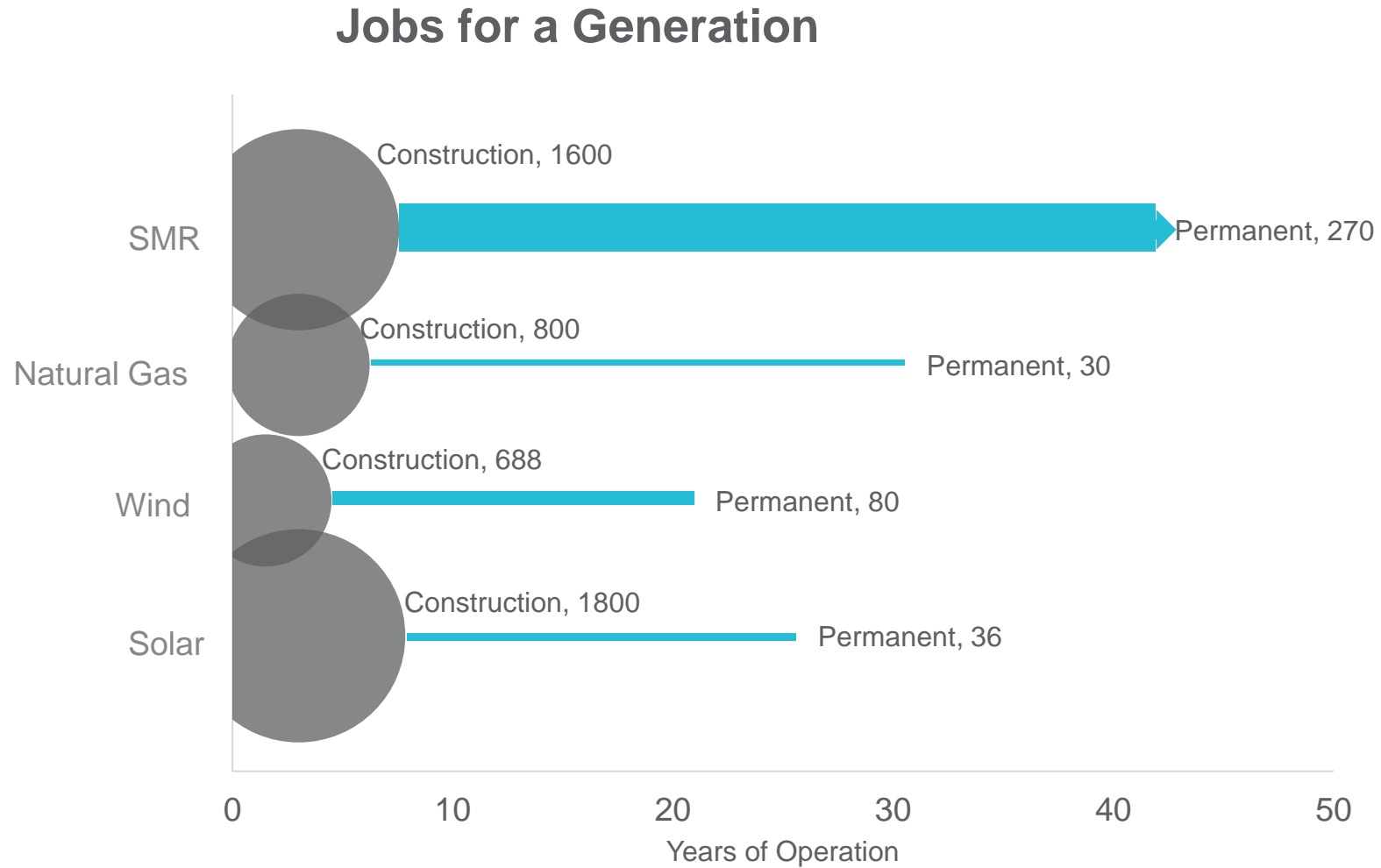


Why are SMRs a Good Replacement?

Jobs By the Numbers (Cont'd)

Coal Plant Position	# Dedicated Coal Positions	SMR Position	# Dedicated SMR Positions	Degree of Retraining Required
Operations Supervisor	5	Senior Reactor Operator	5	High
Control Room Operator	10	Reactor Operator	15	High
Field Operator	15	Non-Licensed Operator	25	Low
Lab Operator/Chemistry/Scrubber	4	Chem Tech	14	Medium
Maintenance Supervisor	2	Maintenance Supervisor	3	Medium
Mechanical Craft	12	Mechanical Craft	21	Low
I&C Craft	9	I&C Craft	10	Medium
Electrician Craft	5	Electrician Craft	11	Low
Technician	11	Technician	13	Low
Security Officer	20	Security Officer	48	Low
Sub-Total	93		165	
All Other Positions	14		72	Medium
Total On-Site Positions	107		237	
Possible Centralized Positions			33	
Total Positions			270	

Jobs By the Numbers (Cont'd)



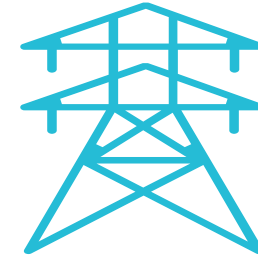
SMR jobs are locally concentrated

Other Benefits

Clean Energy



Leveraging Valuable Site Assets



Trade Opportunities



Why are SMRs a Good Replacement?

But Why Not Other Options?

■ Permanent Jobs on Site ■ Industry Wage Median

Carbon-Free Energy?

Role on Grid-Firm Energy?

Benefits Concentrated in Local Community?



Nuclear



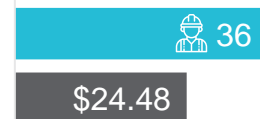
Coal



Wind



Solar



Natural Gas



ScottMadden Generation Focused Research

- Gone with the Steam
- Bitcoin and Nuclear Power
- Build Your Own Texas Generation Mix
- While You Were Sleeping



THANK YOU



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