



What If Nuclear Plants Were 10x Cheaper to Operate?

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July 2019

The Fastest Path to Zero Includes Nuclear

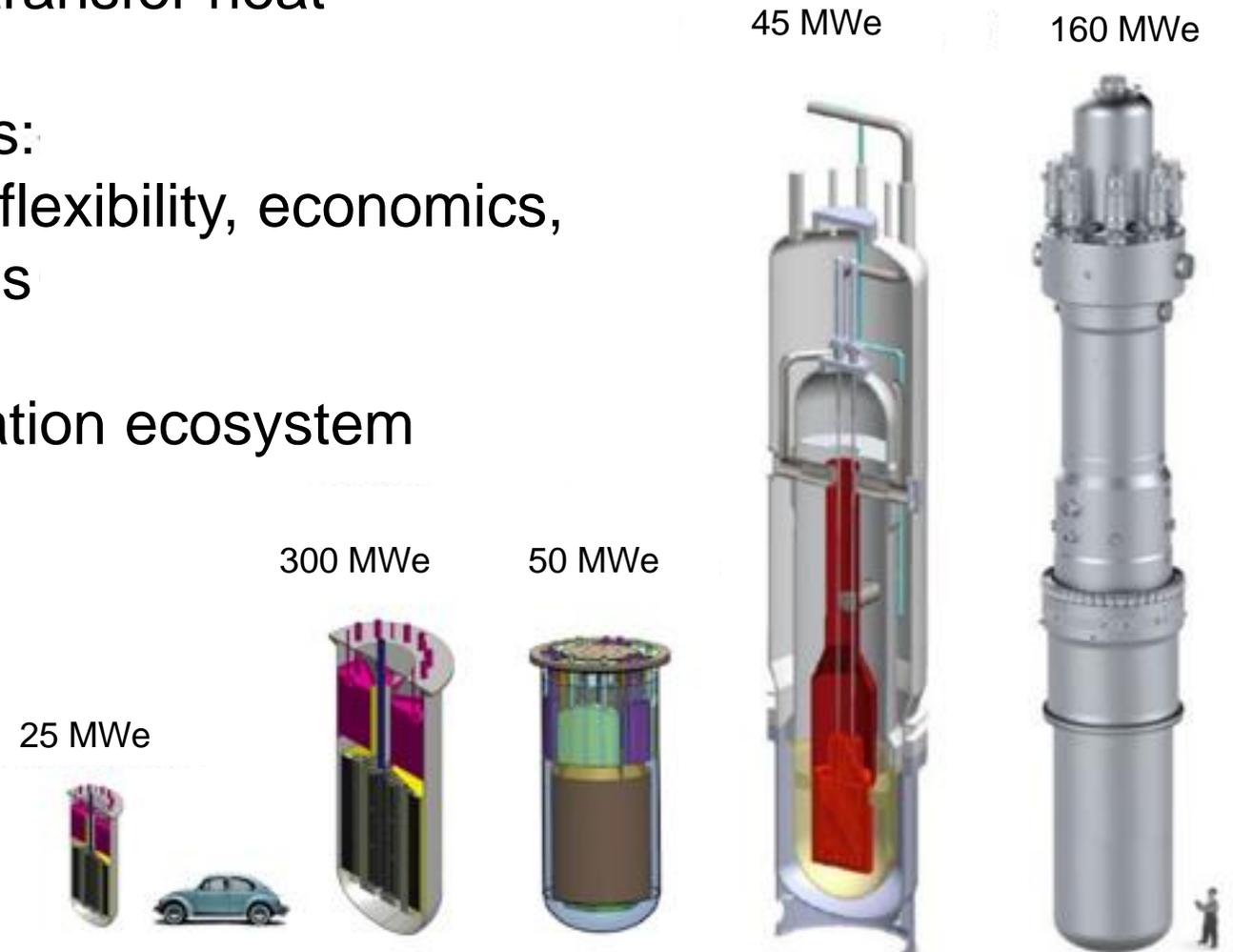
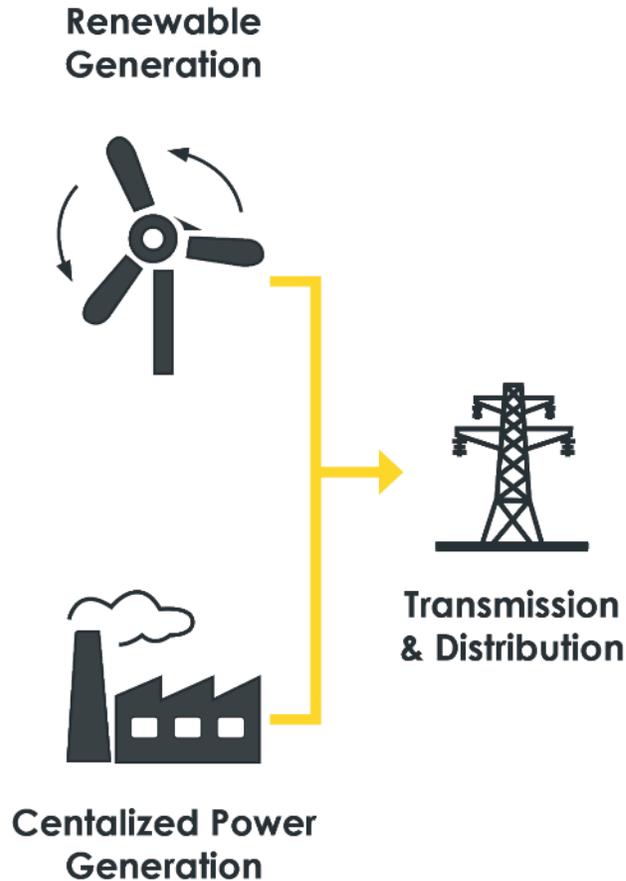


Advanced Reactors: New Opportunities

Use *not* water to transfer heat

Desirable features:
process heat, flexibility, economics,
waste solutions

Expanding innovation ecosystem



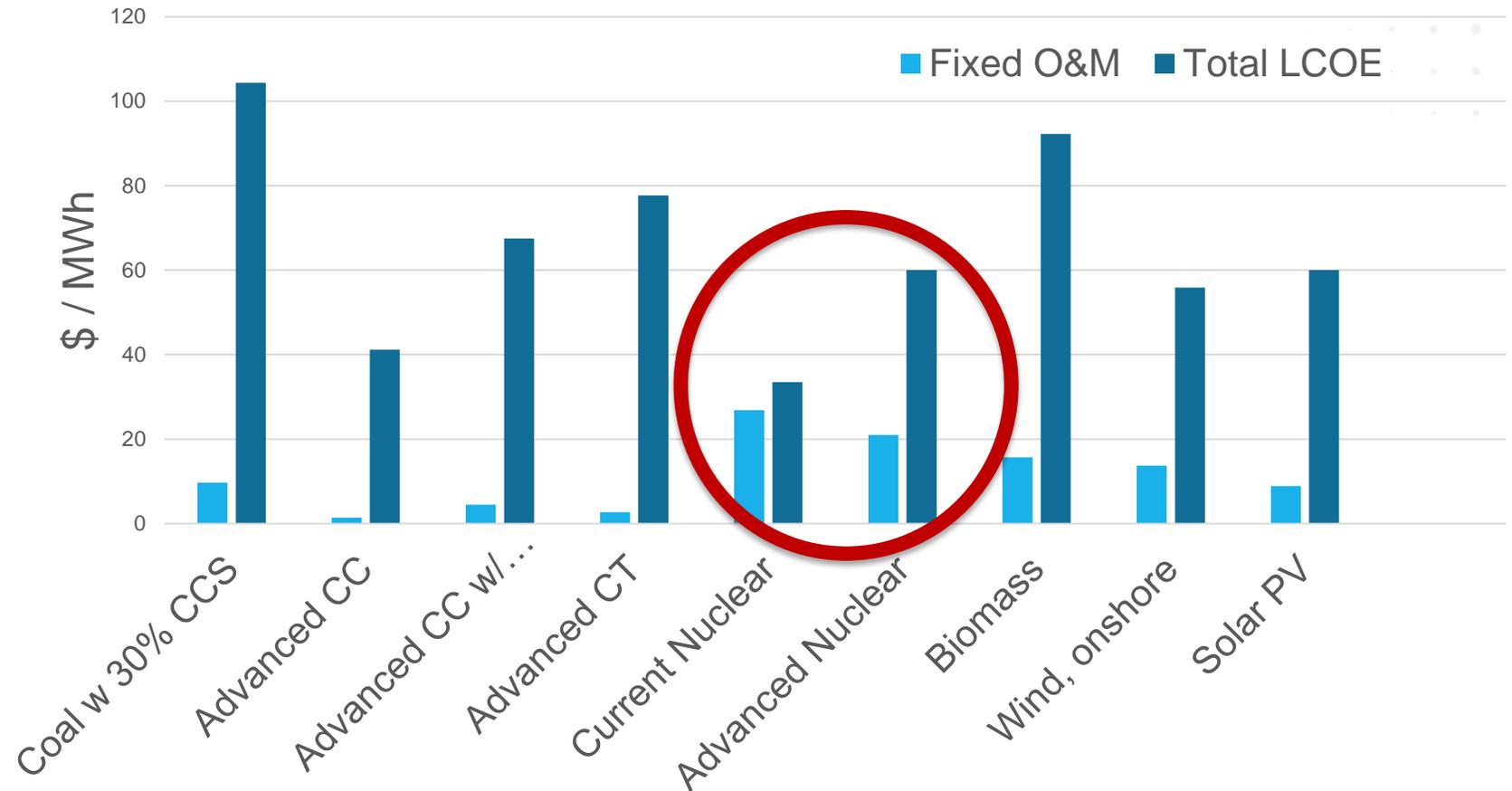
What Do Advanced Reactors Need to Achieve?

Existing reactors are shutting down with high O&M costs

Advanced reactors are learning lessons

but O&M costs are not well established

LCOE and Fixed O&M



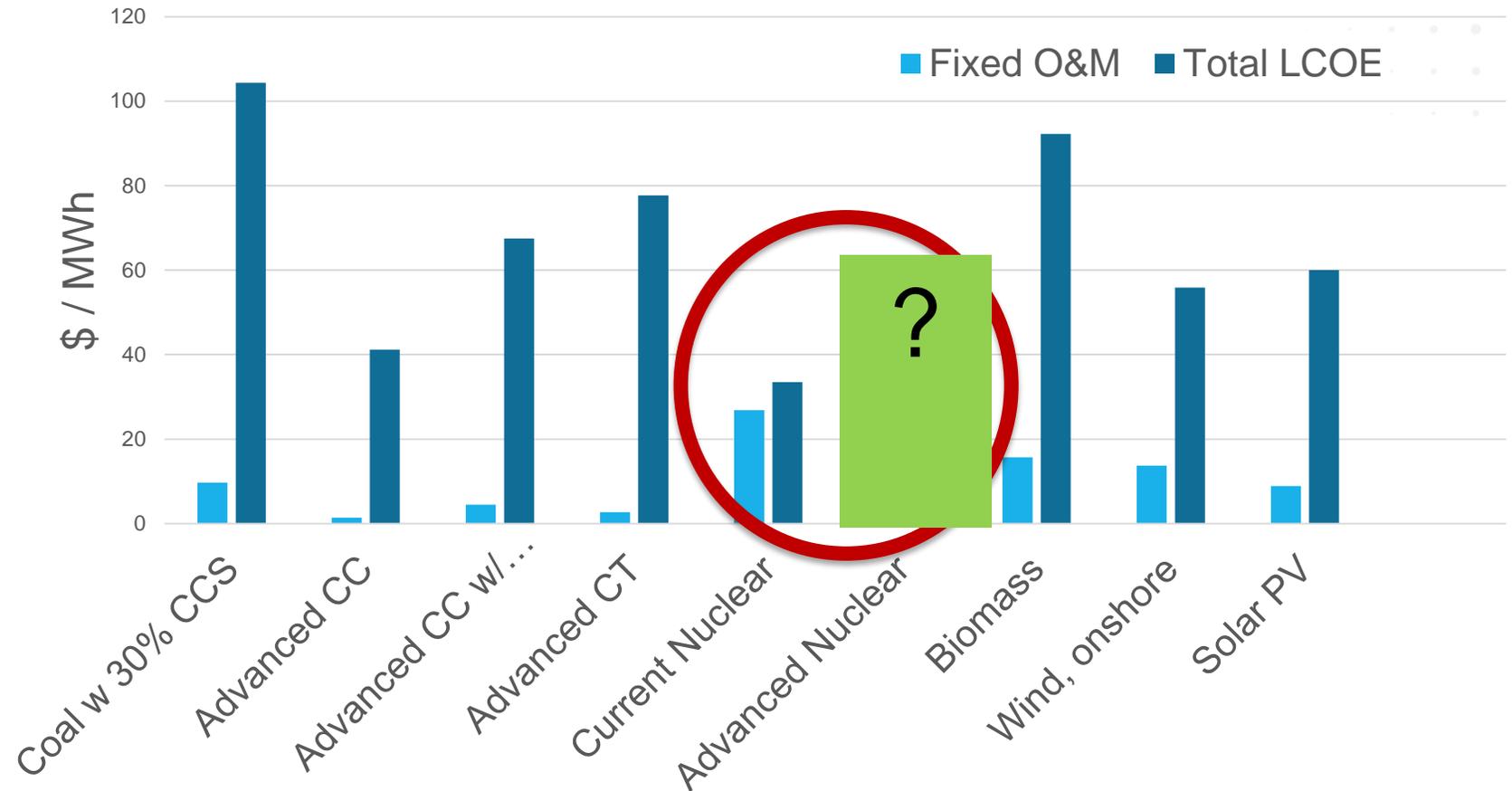
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Optimizing Operations

Asset Performance Management

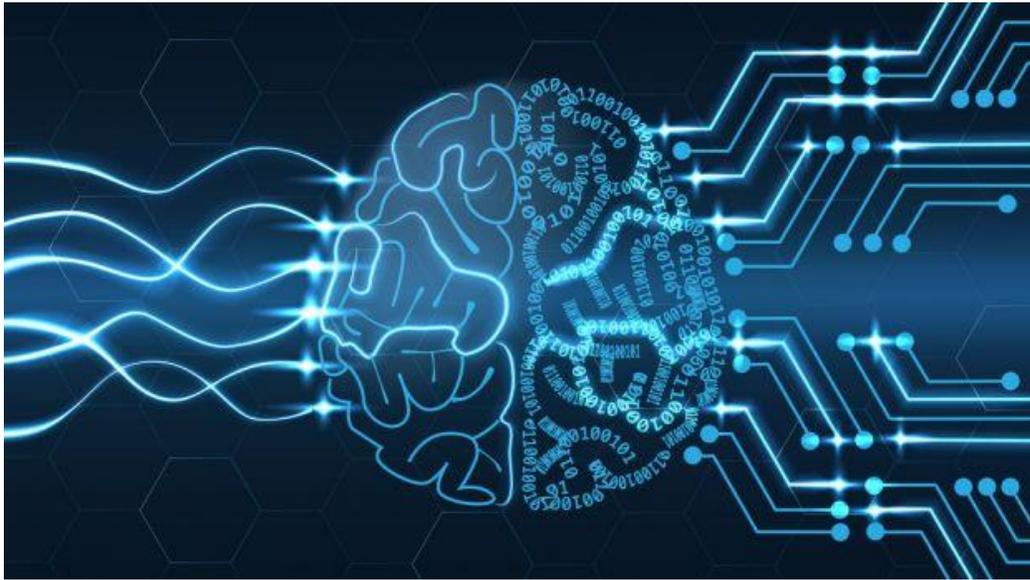
Predictive Maintenance

Automation and Autonomy



There Is a Lot To Figure Out

- Best use of AI / ML
- Data and signals: what and how?
- Models and Uncertainty
- Expanding predictive maintenance



I'd Like Your Input and Ideas

What existing O&M ideas can be adopted into nuclear energy?

How do we integrate physics simulation and physical measurements for a more coherent system picture?

How do we deal with system uncertainty?

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