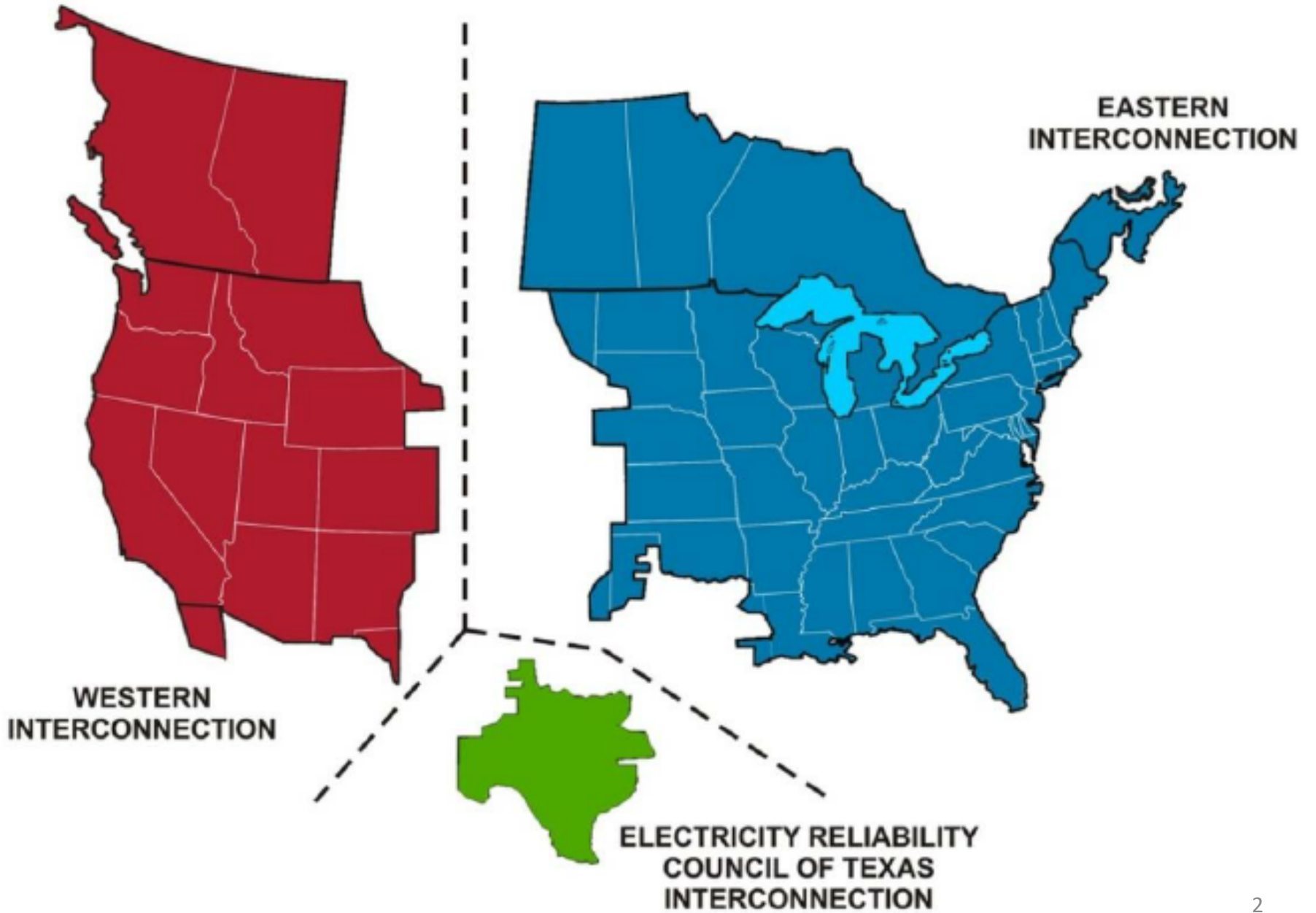


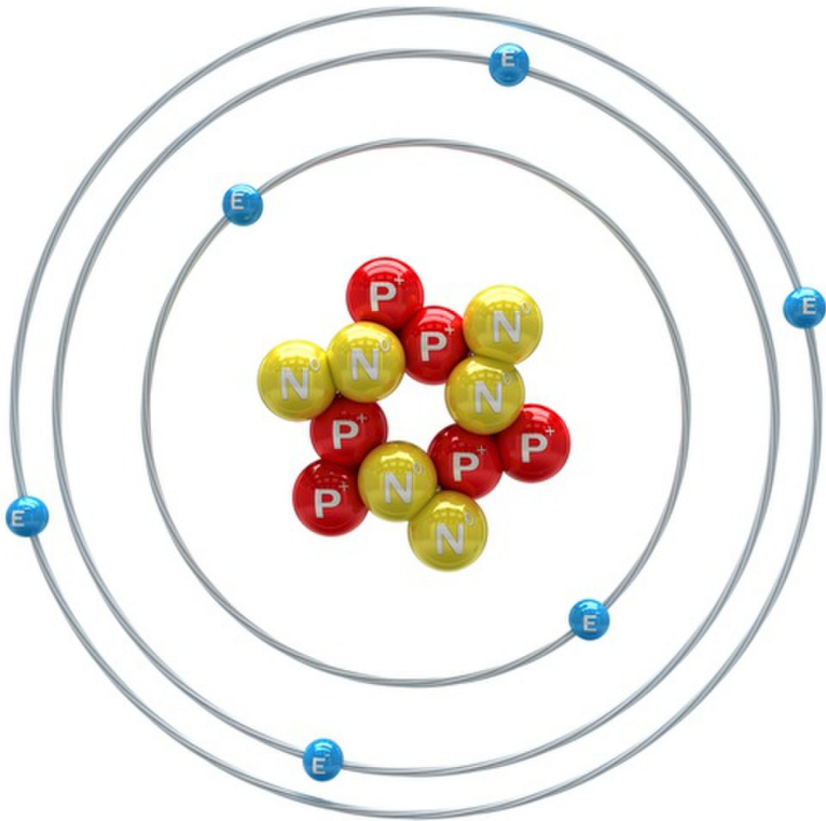
Powering Local
Economies and
Forging the Future
of a Smart,
Resilient Energy
Grid

May 17, 2019

NACo Western Interstate Region Conference







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Carbon

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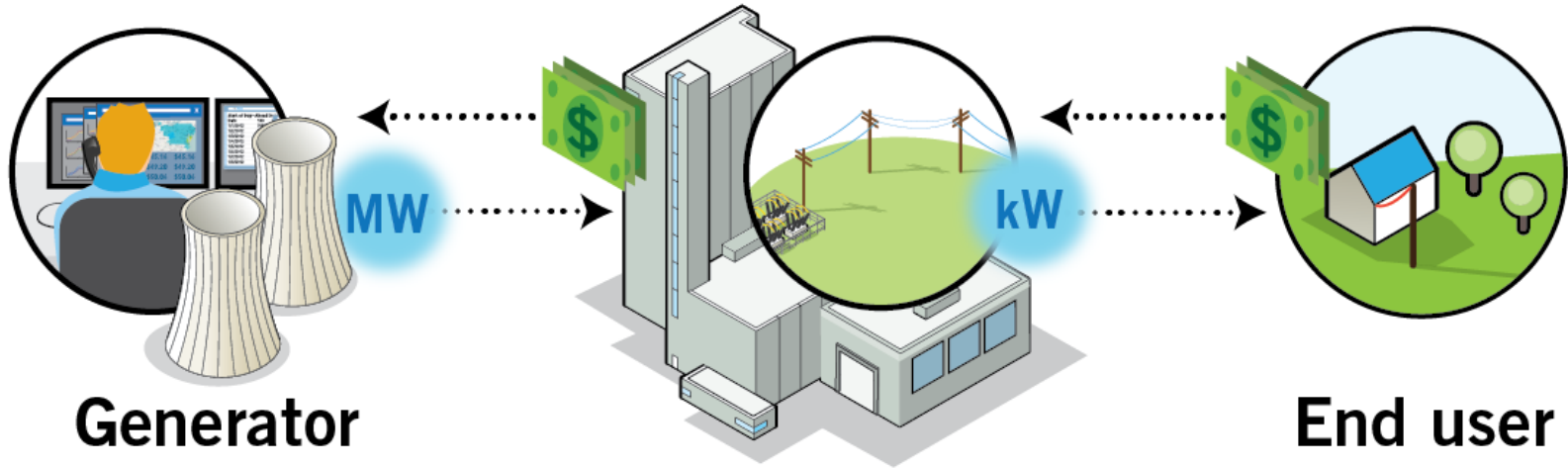




California ISO

WHOLESALE

RETAIL



Generator

Reseller

i.e., electricity utility companies,
competitive power providers
and electricity marketers

As PacifiCorp and other analyses point to more coal shutdowns, replacement questions rise

A recent PacifiCorp analysis points to a growing trend among utilities, and analysts are watching to see how modeling and reliability issues can best be addressed as retirements continue.

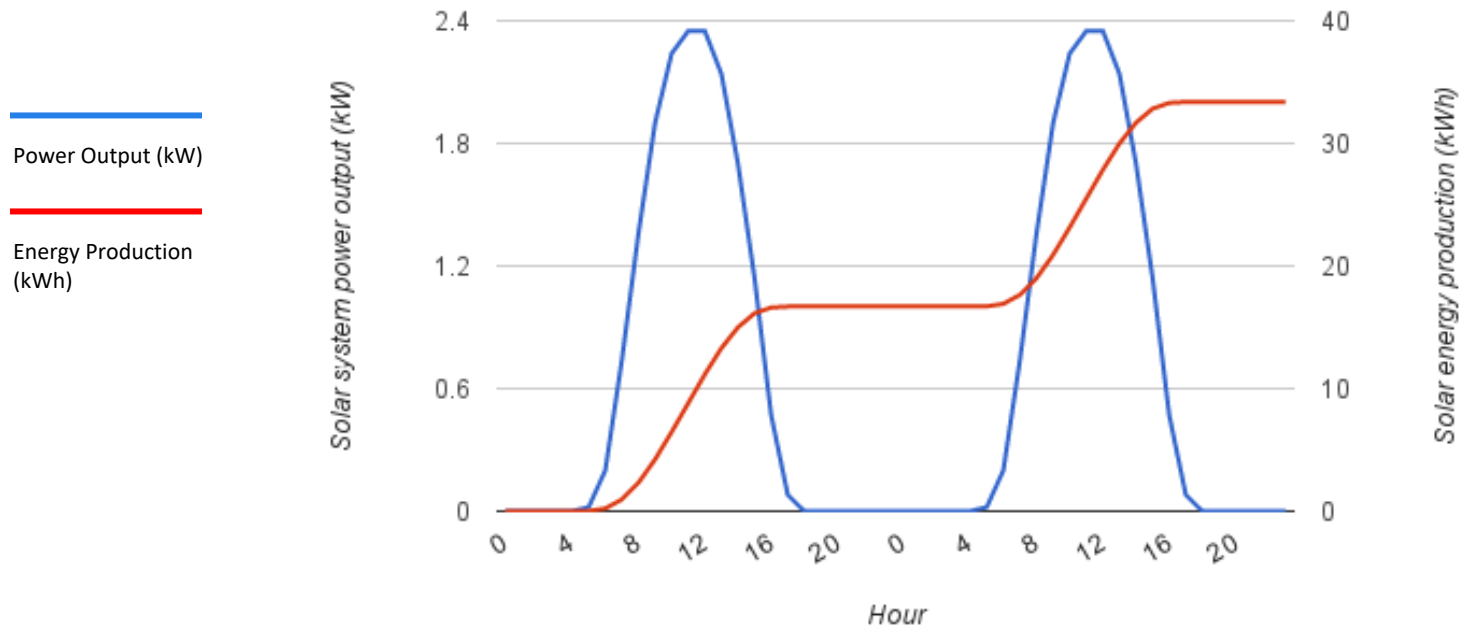
Utility Dive (12.08.2018)

Resource Adequacy in the Pacific Northwest

Energy and Environmental Economics, Inc. (March 2019)



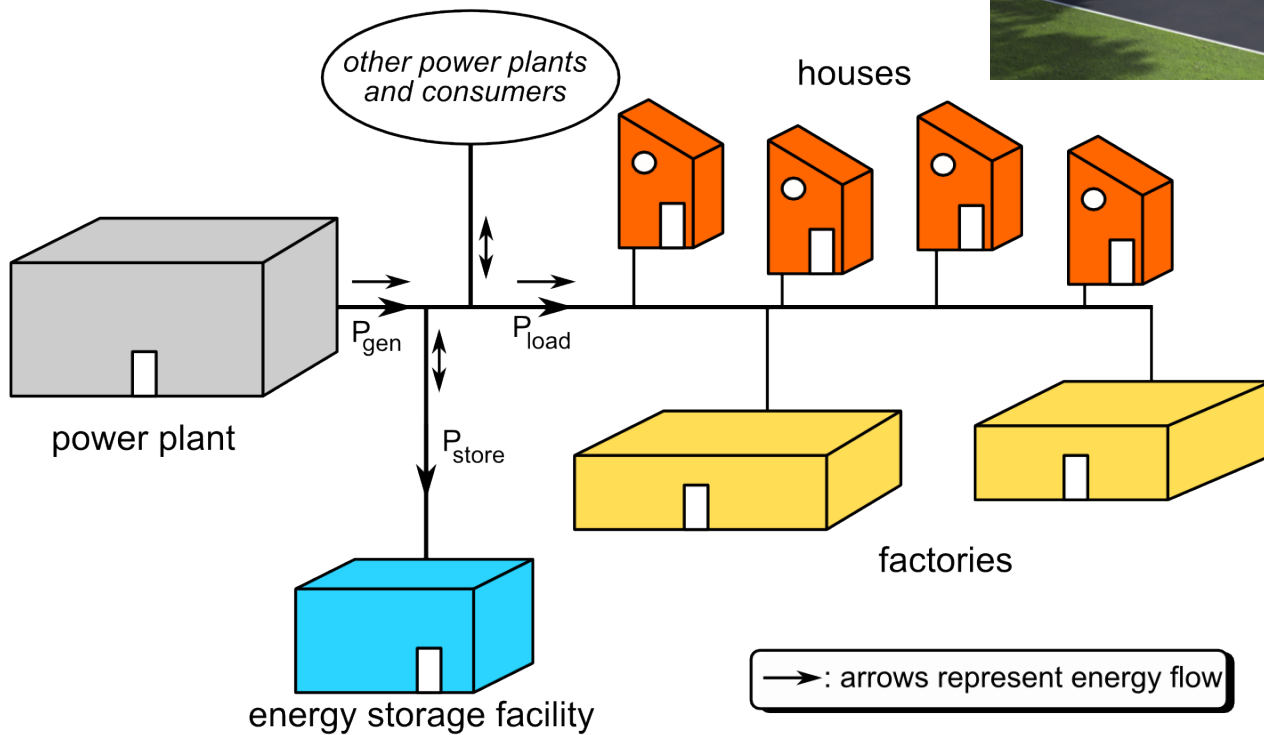
Power output vs energy production for example 2.5kW solar system





Update: FERC reinstates, extends preliminary permit for 500-MW Banks Lake Pumped Storage



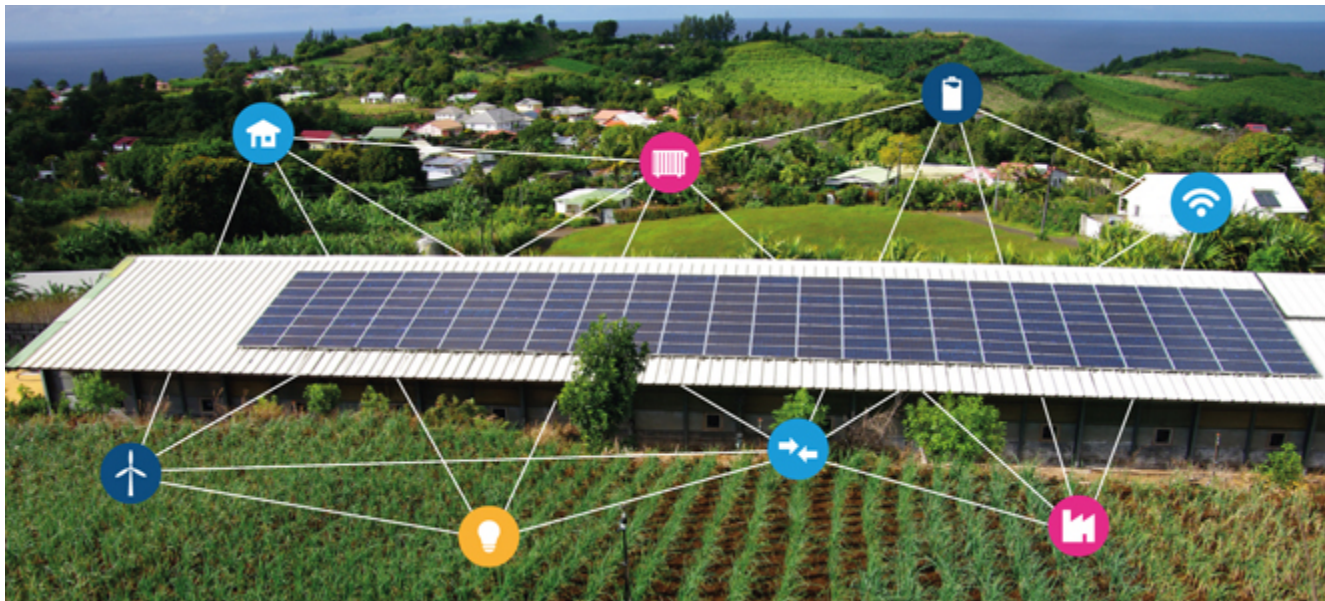
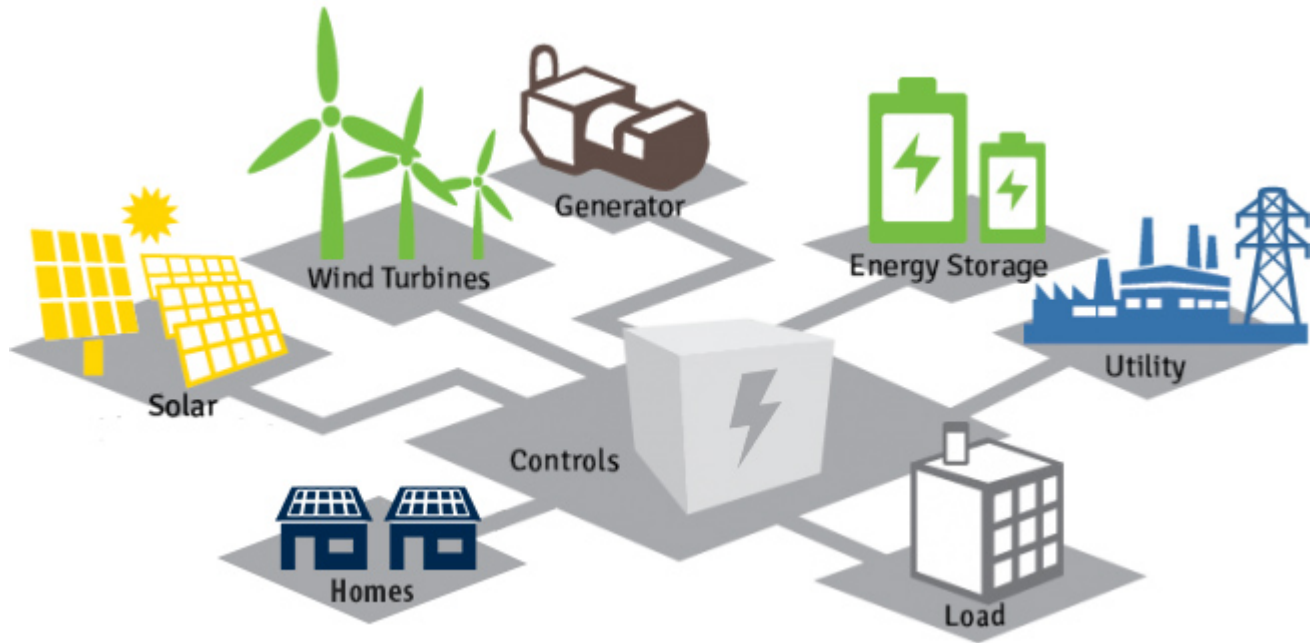






NEWS > SPOKANE

Spokane City Council adopts law calling for 2030 adoption of exclusively renewable electricity







DigitalGlobe

A MAXAR COMPANY





- **Costs increases** to ultimate consumers in response to these changes.





Malcolm McLellan, Partner
Van Ness Feldman, LLP
(206) 829-1814
mcm@vnf.com