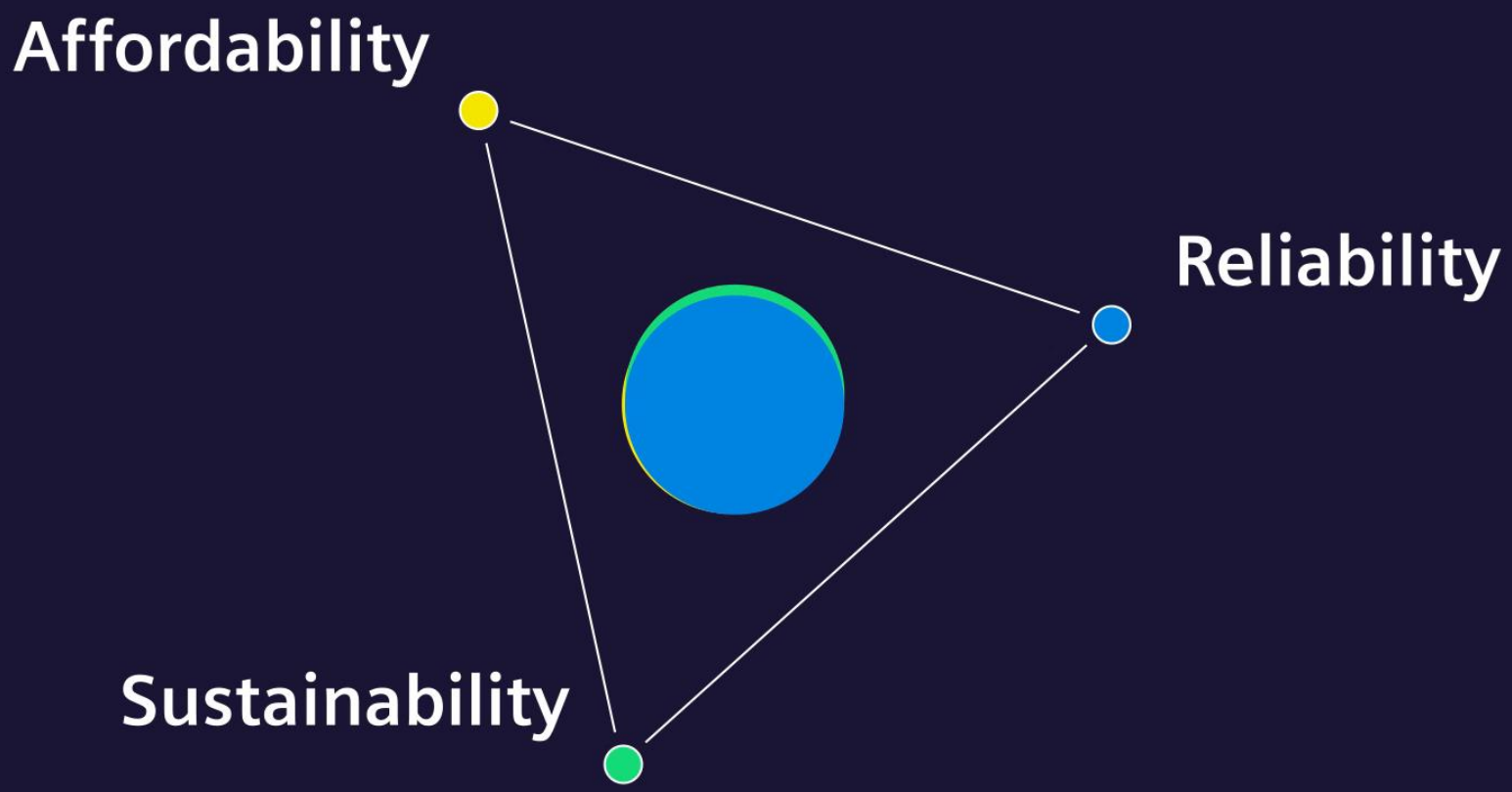
How to secure affordable, sustainable and reliable energy supply for industry?

Boris Rigault and Tannas Tsakiris

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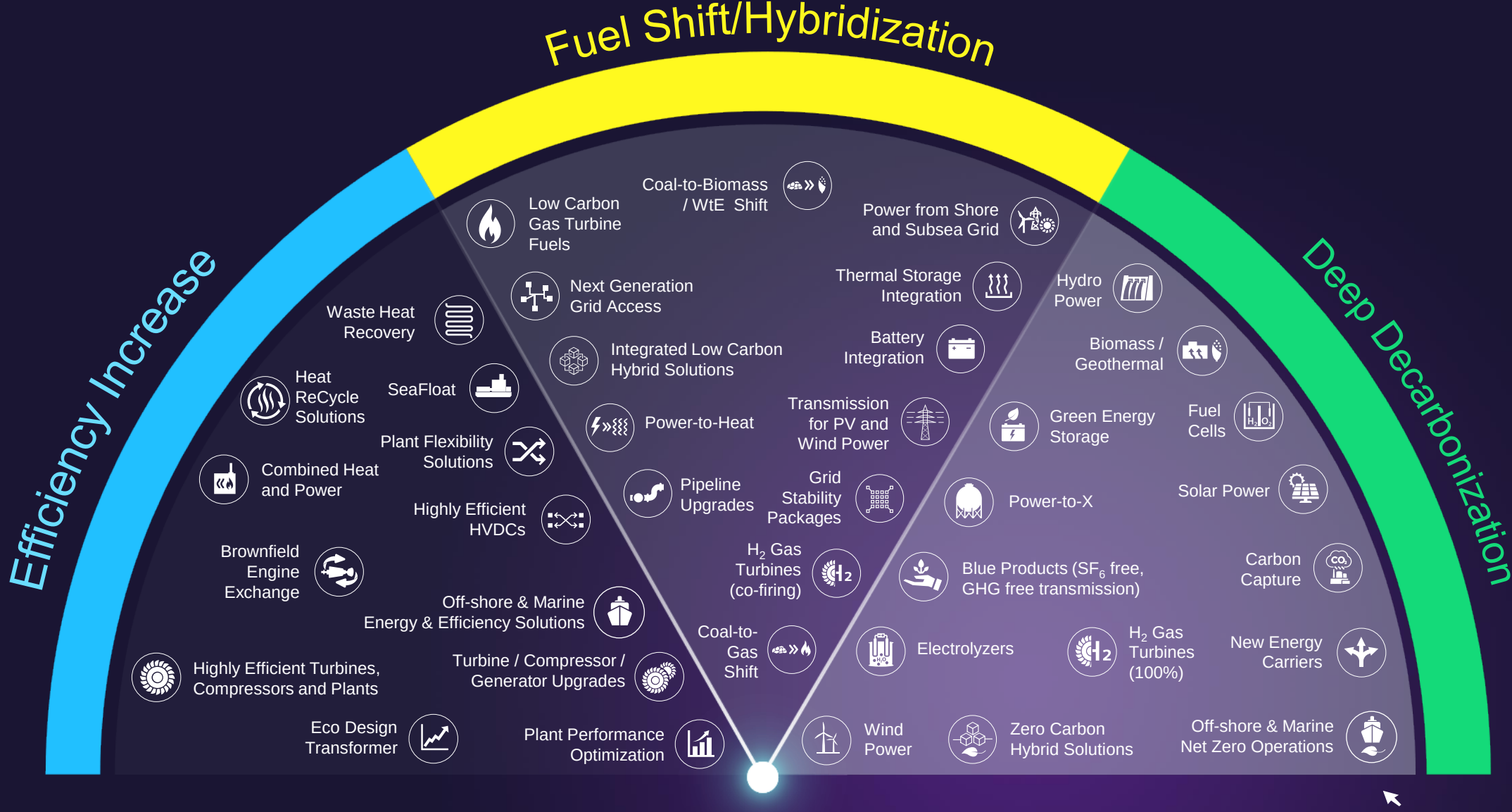
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The Energy Trilemma



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Decarbonization Radar



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Fossil-free pulp plant in Brazil



Siemens Energy steam turbo sets generate 473 MW of electrical power providing fossil-free energy to the plant plus 180 MW of surplus energy that Suzano will sell by feeding it into Brazil's national grid.

Decarbonization impact

- Substitute fossil fuels with low-carbon biomass or waste with significant impact on carbon emissions
- Provide fossil-free and conditioned process steam

Ribas do Rio Pardo, Brazil

- Siemens Energy is supporting Suzano, the world's leading eucalyptus pulp producer, to build a sustainable pulp project – Cerado Project
- Siemens Energy will provide 3 SE SST-600 steam turbines, SGen5-100A-2P generators, 108 switchgears and SPPA-T3000 Control System, plus auxiliary systems, remote monitoring and other services,
- Boilers will burn waste from the pulp manufacturing process to generate 473 MW of electrical energy, including 180 MW of surplus energy that will feed it into Brazil's national grid.

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Fossil fuel to Biomass shift



With our highly efficient SST-700/900 dual casing reheat technology we are supporting our customers to transition to a more sustainable world.

Japan Biomass

18 biomass projects
Supported by Siemens Energy since 2018

~1,059 MW
installed instead of fossil fuel power plants

~996,000 tons greenhouse gas emissions
per annum avoided in comparison to coal fired power plants

The avoided amount of greenhouse gas is equivalent to the emission of
~212,000 passenger vehicles
every year

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What are your specific drivers/ incentives for decarbonization right now?

https://www.mentimeter.com/app/home

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What are your main hurdles for implementing sustainable energy supply?

https://www.mentimeter.com/app/home

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Thank you!



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