Eavor™

Energy Independence for Singapore! The Impossible Dream?

Eavor-Loop™ Introduction - SIEW

October 29th 2020

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Renewables – A Footprint larger than Singapore itself!

	Land Use Capacity (ha/MWp)	Capacity Factor	Land Use **Generated** (ha/MW)
Wind	34.4	0.60	57.3
Solar –Singapore	0.77	0.15	5.1
Eavor-Loop™ 1.0, Germany	0.27	1.0	0.27
Eavor-Loop™ 2.0, Germany	0.13	1.0	0.13
Eavor-Loop™ 2.0, Singapore	**0.04**	**1.0**	**0.04**

Energy Independence Objective

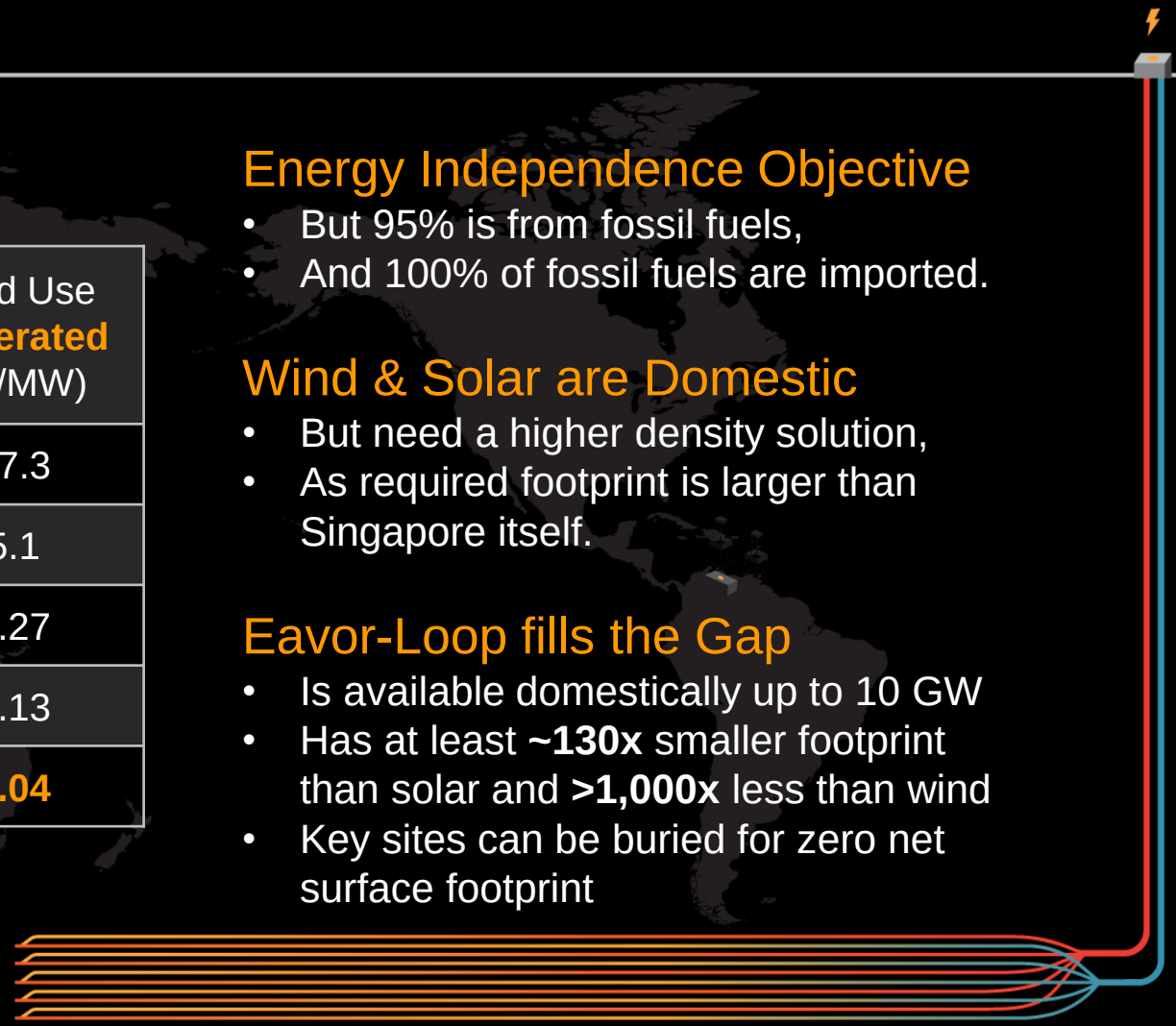
- But 95% is from fossil fuels,
- And 100% of fossil fuels are imported.

Wind & Solar are Domestic

- But need a higher density solution,
- As required footprint is larger than Singapore itself.

Eavor-Loop fills the Gap

- Is available domestically up to 10 GW
- Has at least **~130x** smaller footprint than solar and **>1,000x** less than wind
- Key sites can be buried for zero net surface footprint



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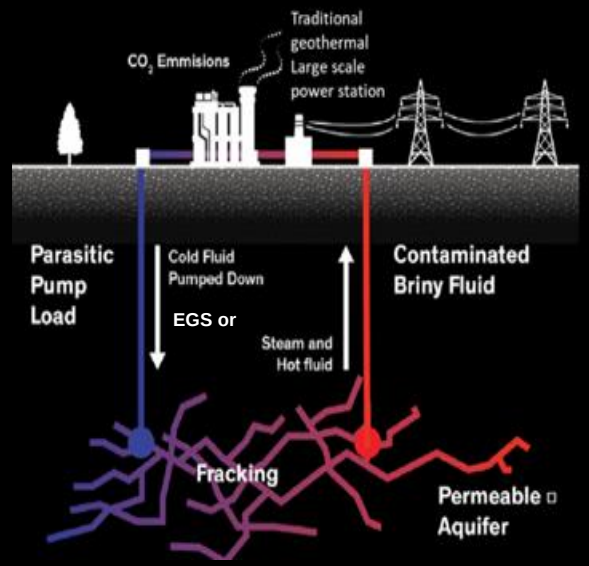
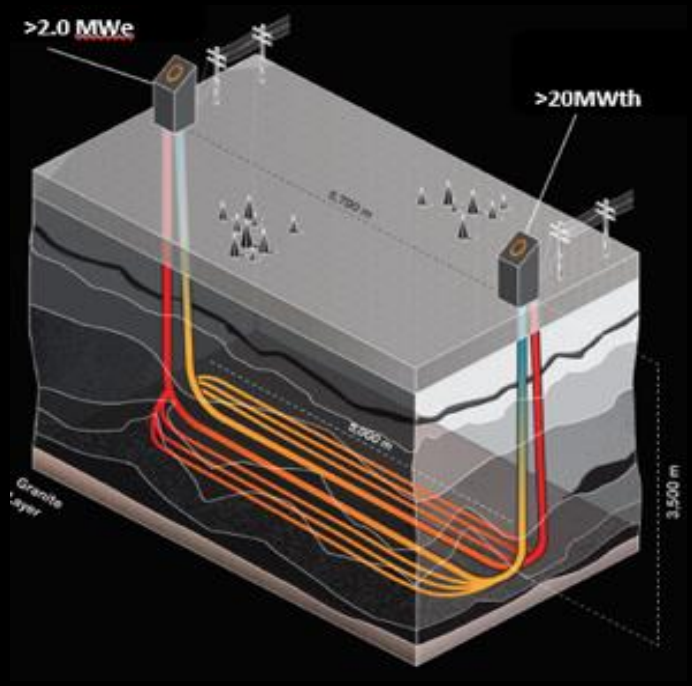
Eavor-Loop™ - Geothermal Energy Reimagined



Traditional Geothermal	Eavor-Loop™
Open System: water flows through reservoir, fluid exchange between system & reservoir	Closed System: working fluid circulates in isolation from the reservoir, no fluid exchange
Requires a permeable aquifer & hot convective zone	No need for permeable aquifer
Requires an electrical pump to circulate brine: parasitic load	Driven by natural thermosiphon, no pumping required
Can require fracking to increase flow, potential for induced seismicity	No fracking required, no induced seismicity
Can produce GHG & CO2 with produced brine	No GHG or CO2
Continuous water use & ongoing treatment required	No water use, no production brine requiring treatment
Baseload, not Dispatchable	Baseload and Dispatchable



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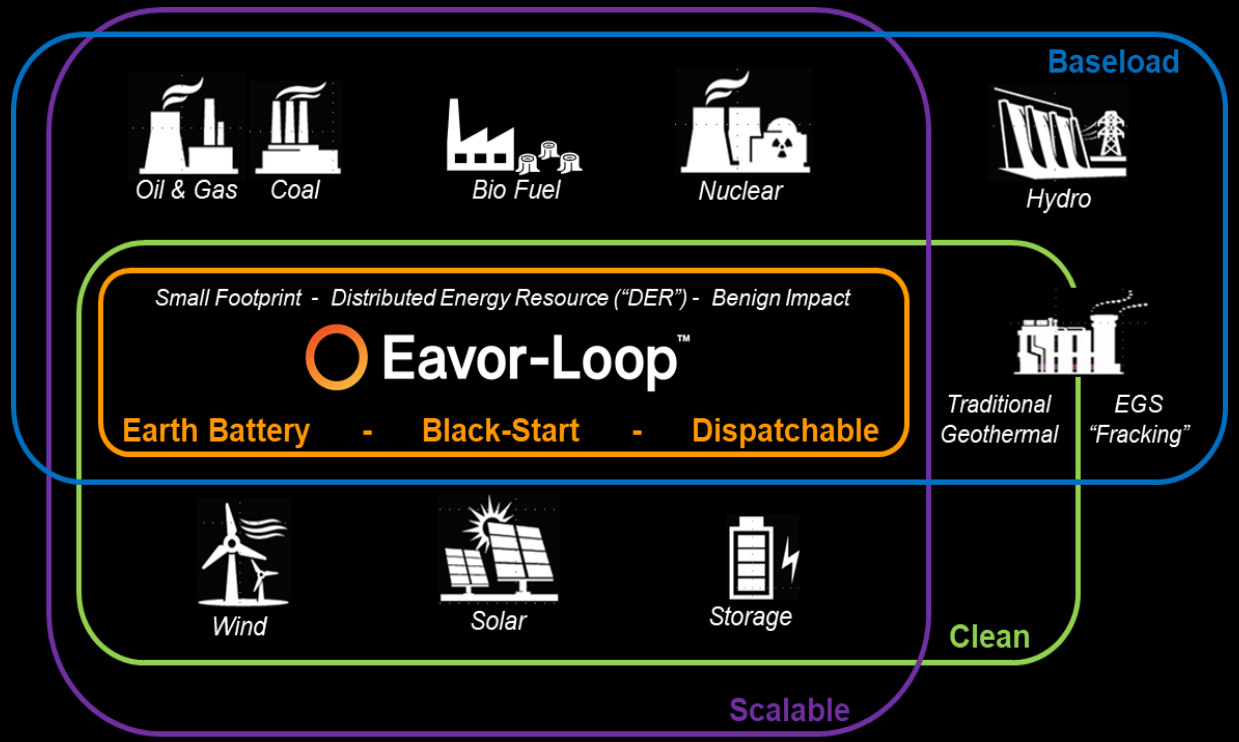
Eavor-Loop™ - A New Power Category

Providing a Scalable Domestic Source of Clean Dispatchable Power



The Eavor-Loop™ system requires no connection to the outside world and operates without fuel and completely emissions free. The fully independent system can be placed in a bunker or buried below surface; be made impervious to all types of natural disasters.

The highest amount of resilience, independence with the lowest environmental footprint in category.

Eavor Earth Battery™

Transient operation allows system to charge during low-demand, and discharge at high-demand periods with no material impact to net energy output over life of the project.

Product competes with energy storage.

The world's most benign environmental impact & surface footprint. Eavor can fit in a backyard, repurpose inactive well sites or decommissioned industrial/commercial facilities. The facility has no emissions of any kind during operations.

Eavor is the solution the world has been waiting for.

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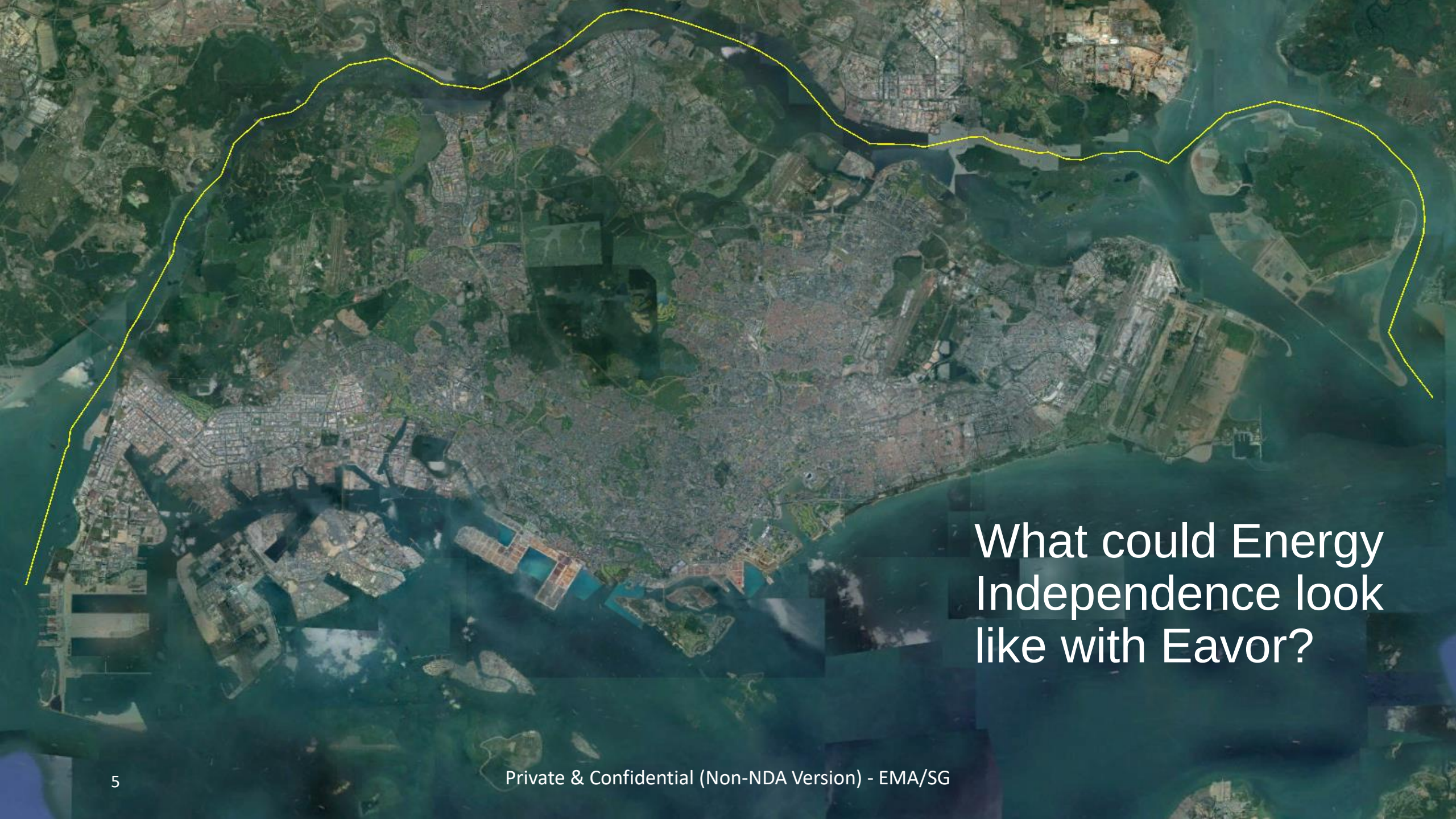

What could Energy Independence look like with Eavor?

10 GW Dispatchable / Baseload

- Start with one 80 MW Site

- Grow to 125 Strategic Sites

- 3 Hectares or less per Site

- Key Sites buried or dual use so no net surface footprint

Energy For Eavor™