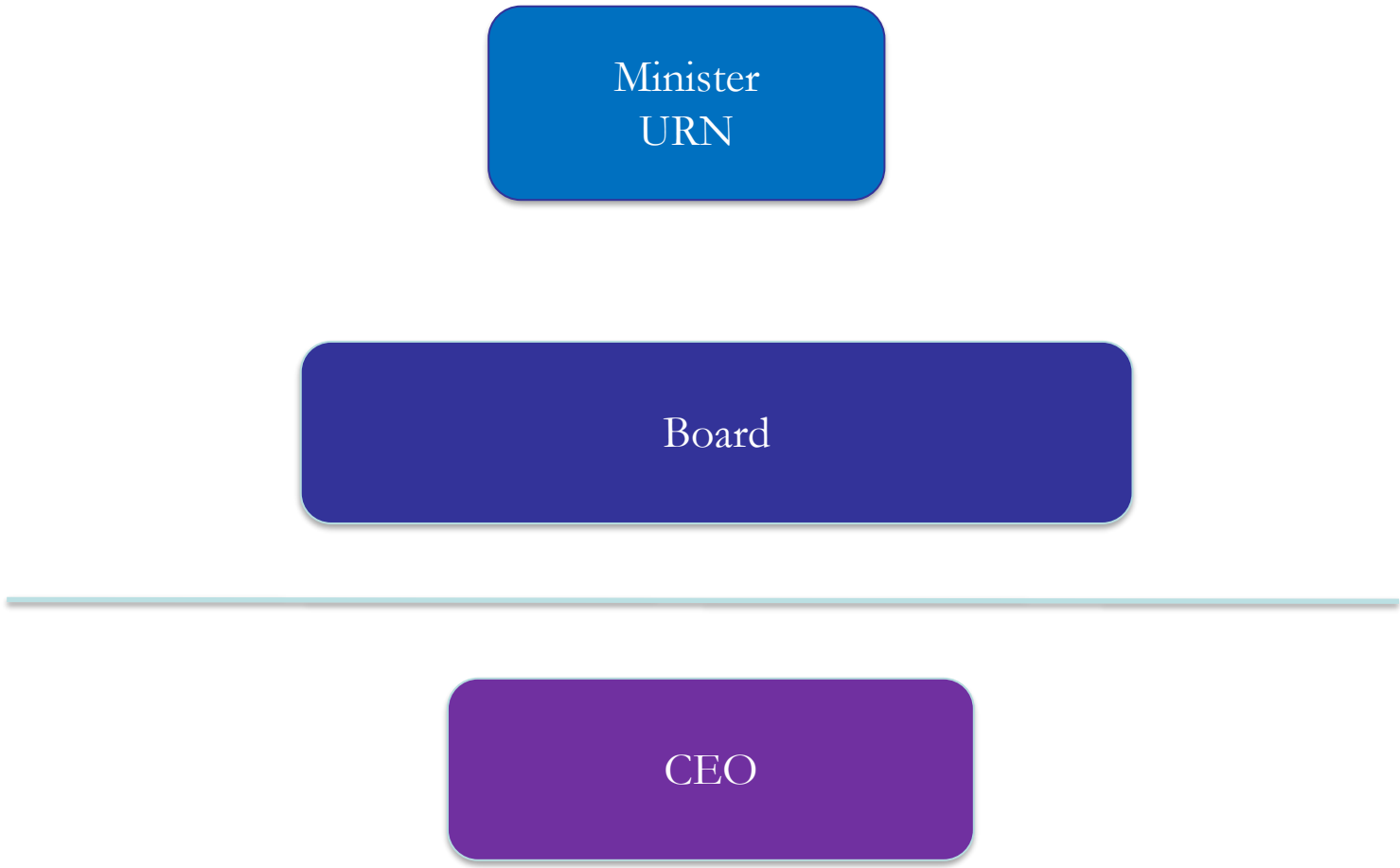
Orkusjóður

Energy Fund

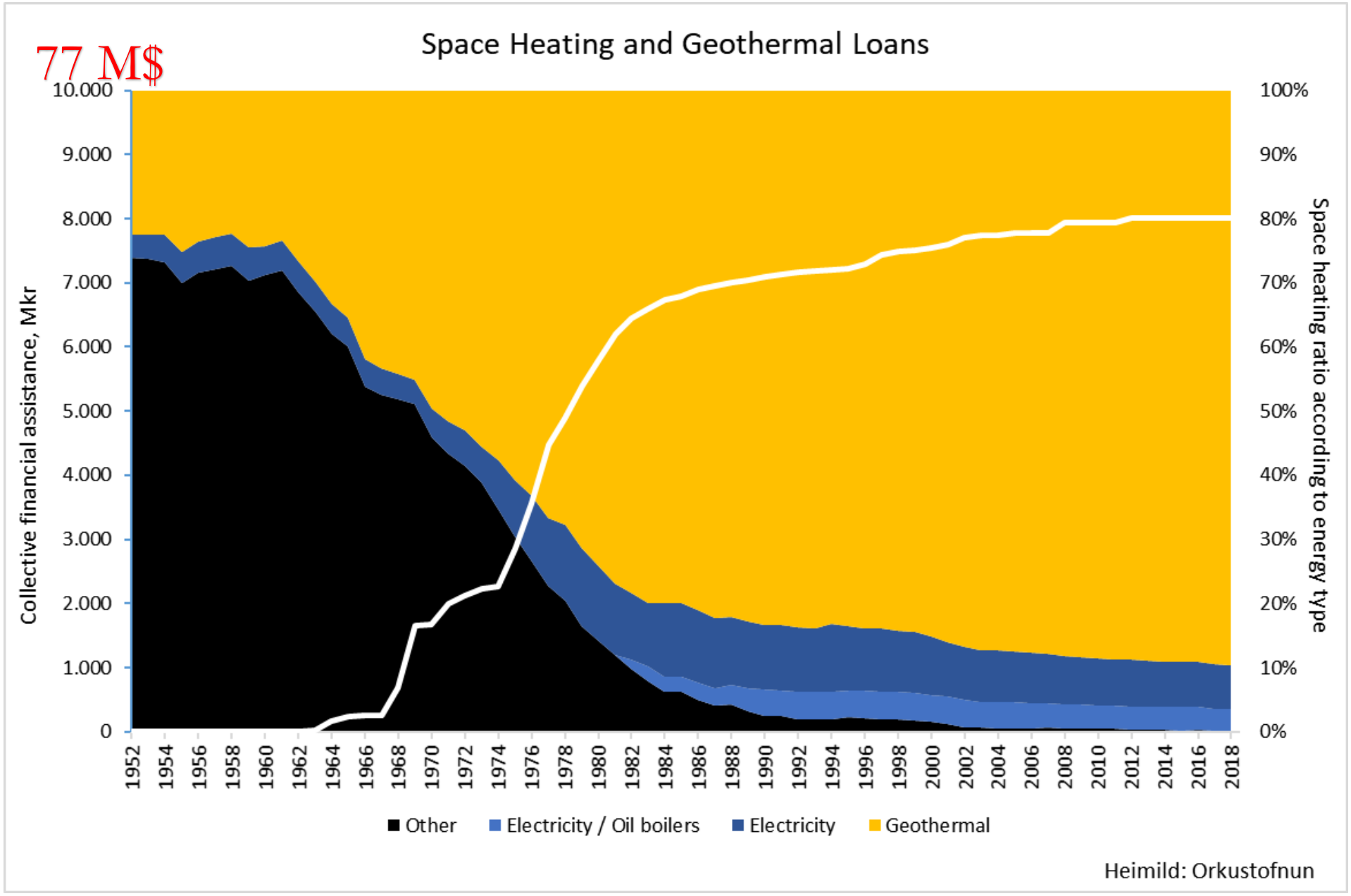
Ragnar Ásmundsson, PhD physics
CEO Energy Fund
Presented for User4GeoEnergy


Minister
URN
Board
CEO

Energy Fund

- Owned and funded by government
- Supports transition to renewable energy
- Focus on geothermal in the 1980s
- Current focus on transport sector

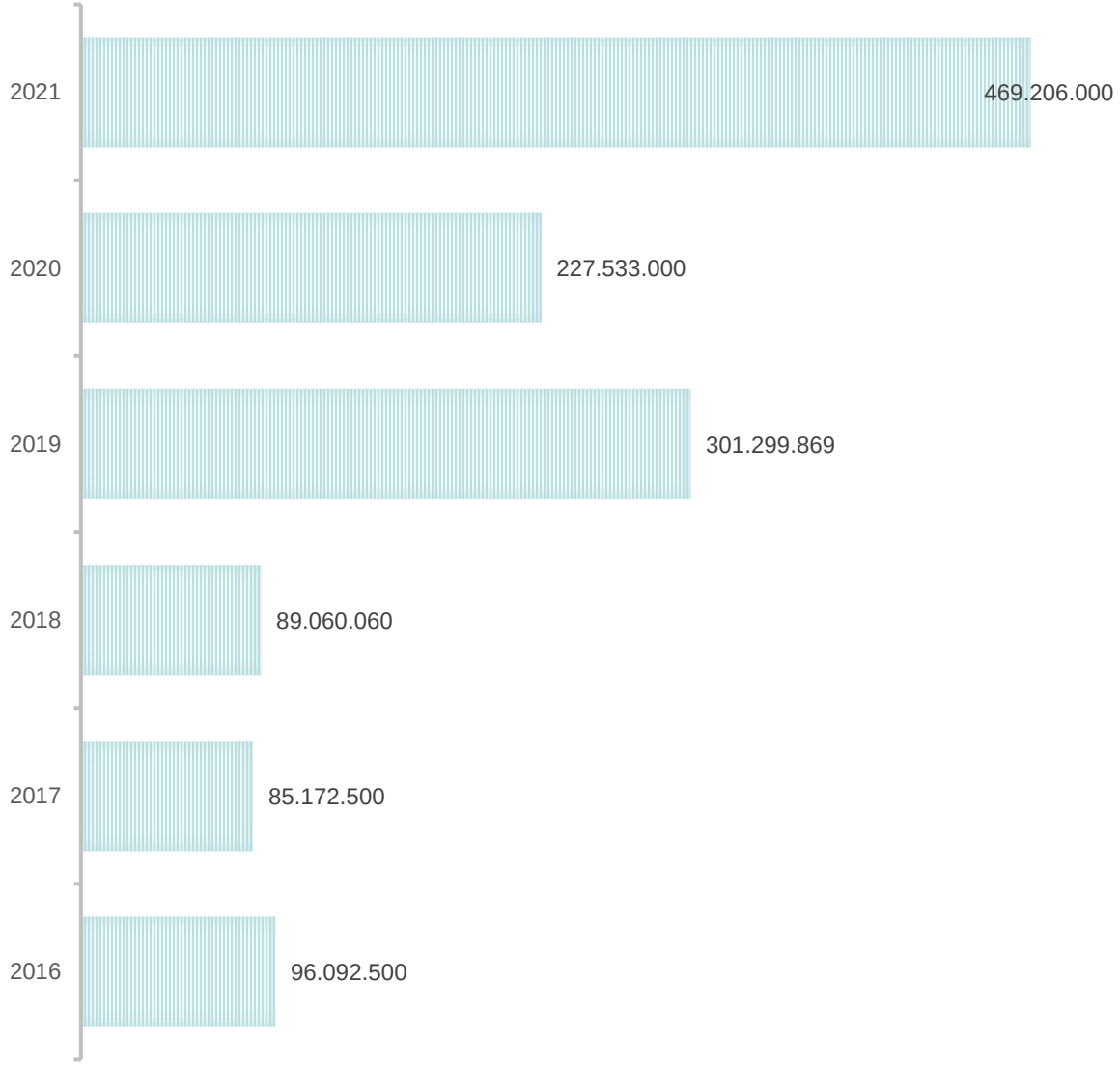
77 M$



Original plot provided by Jón Ragnar Guðmundsson, Orkustofnun

Double in 2022

Úthlutunar ár	Flokkar	Fjöldi styrkja	Upphæð styrks, kr
2021	Hleðslustöðvar (viðmið 22 kW) við gististaði og fjölsótta ferðamannastaði	51	42,559,000
	Jarðefnaeldsneyti – aðgerðir til að minnka notkun þess	18	228,735,000
	Kaup á vistvænum flutningabílum eða bættir innviðir	4	106,409,000
	Kaup á vistvænum vinnuvélum	26	81,925,000
	Líf- eða rafeldsneytisframleiðsla og orkugeymsla	3	9,578,000
			469,206,000
2020	Fjárfestingastyrkir til sveitarfélaga o.fl.	7	35,649,400
	Innviðastyrkir fyrir vistvæn ökutæki	14	70,992,100
	Innviðastyrkir fyrir vistvæn ökutæki við opinbera staði	39	108,964,500
	Verkefnastyrkir fyrir rekstur í haftengdri starfsemi	3	11,927,000
			227,533,000
2019	Fjárfestingastyrkir til sveitarfélaga	9	34,155,000
	Hleðslustöðvar fyrir rafbíla - hótel og gististaðir	26	30,319,869
	Hraðhleðslustöðvar fyrir rafbíla	5	226,825,000
	Jarðhitaleit	1	10,000,000
			301,299,869
2018	Fjárfestingastyrkir til sveitarfélaga	6	20,636,000
	Innviðir fyrir rafbíla, 3 hluti	12	68,424,060
			89,060,060
2017	Fjárfestingastyrkir til eflingar innlendrar eldsneytisframleiðslu	3	14,587,500
	Sérstakir styrkir til húshitunar	3	4,600,000
	Innviðir fyrir rafbíla, 2 hluti	10	65,985,000
			85,172,500
2016	Fjárfestingastyrkir til sveitarfélaga	6	29,342,500
	Innviðir fyrir rafbíla, 1. hluti	6	66,750,000
			96,092,500



ORKUSTOFNUN
Finna / Search
Ísland
ÍSAFJÖRÐUR
HÚSAVÍK
SAUÐÁRKRÓKUR
AKUREYRI
EGILSSTAÐIR
NESKAUPSTAÐUR
ESKIFJÖRÐUR
STYKKISHÓLMUR
ÓLAFSVÍK
BORGARNES
AKRANES
REYKJAVÍK
GARÐUR
SANDGERÐI
KEFLAVÍK
HVERAGERÐI
SELFOSS
GRINDAVÍK
VESTMANNAEYJAR
Charging station
Park here only while charging

2020

63 projects – charging stations, heat pumps, pellet burners, e-fuel & waste heat from industry

2021

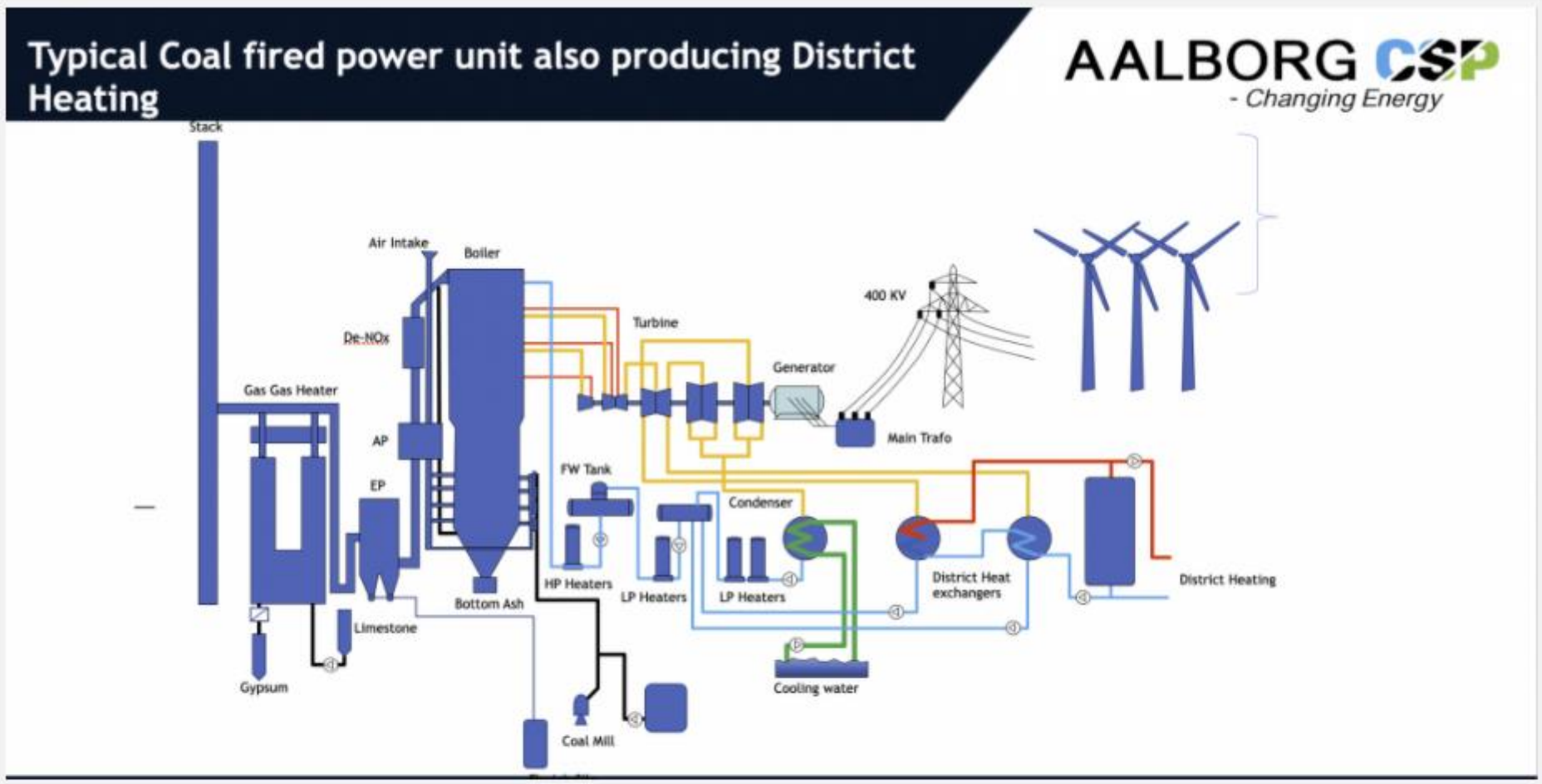
102 projects – charging stations, oil replacement, construction vehicles, energy storage

Haedarendi geothermal binary plant

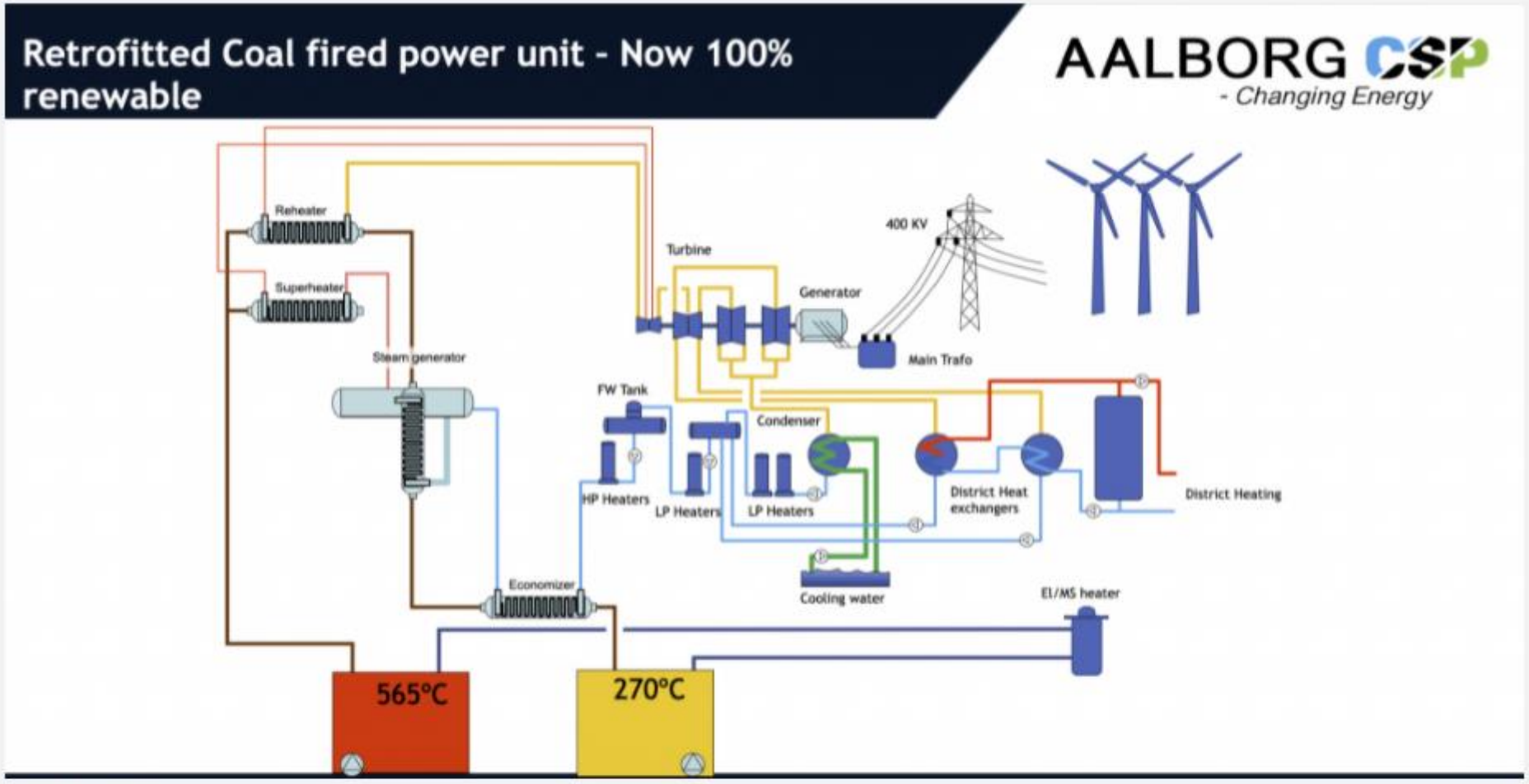
Aalborg CSP to Retrofit Coal Plants into Thermal Energy Storage

February 28, 2021 By Susan Kraemer

https://www.solarpaces.org/aalborg-csp-can-retrofit-coal-plants-into-thermal-energy-storage



Before: Turning coal plants into modern renewable thermal power plants based on energy storage would repurpose all the assets except the coal fired boilers including all of their fuel and waste handling equipment. Most of the existing components of a coal fired power plant – the turbines, the generators, the electricity switch gear, transformer system and the transmission (both to/from the grid) – would all be utilized in a retrofitted version, to be able to operate in conjunction with a new thermal energy storage and steam generation system for the supply of 'on-demand' electricity to the grid.IMAGE@Aalborg CSP



After: The system works by charging (by heating up) molten salt pumped from a cold tank to a hot tank through an electrical heated salt heater, or directly from a molten salt heating CSP platform. The heat can then be stored with the only losses being the thermal losses from the surface depending on the layers of insulation of the tanks. At discharging (cooling down) the salt is pumped through a steam generator where heat of the molten salts is converted into high pressure steam, that can drive the existing steam turbine and produce electricity to the grid on-demand, powered by surplus PV and wind electricity.IMAGE@Aalborg CSP