



The Future of Energy Storage

Malta Inc. Overview



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Malta is a leading technology provider of electro-thermal, long duration energy storage (LDES) systems

Malta's differentiated product is positioned to win significant share of a 75 GW+ serviceable market opportunity ⁽¹⁾

Enormous Need For Scalable Long Duration Energy Storage Globally

- Emphasis on energy independence in Europe
- Global regulatory and funding support, incl. IRA in North America
- Aggressive project targets in the Middle East increase the need for LDES
- Accelerating renewables penetration and fossil asset retirements

Enabling the Energy Transition at Scale Requires Malta's Capabilities



Enables 24/7 Firming of Renewables

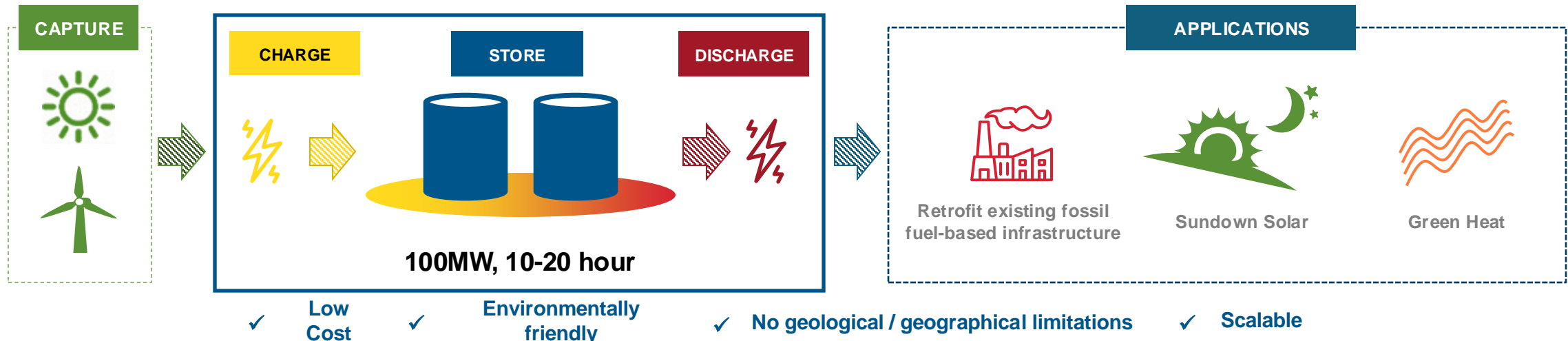


Ensures Grid Reliability (Rotational Inertia)



Supply Chain Already at Scale

Malta's proprietary and proven molten salt long-duration energy storage system provides a unique combination of capacity and duration for which there are no suitable technology alternatives



1. BloombergNEF; 2026-2030 cumulative estimate. SAM opportunity assumes \$350mm total revenue per 100 MW LDES system.

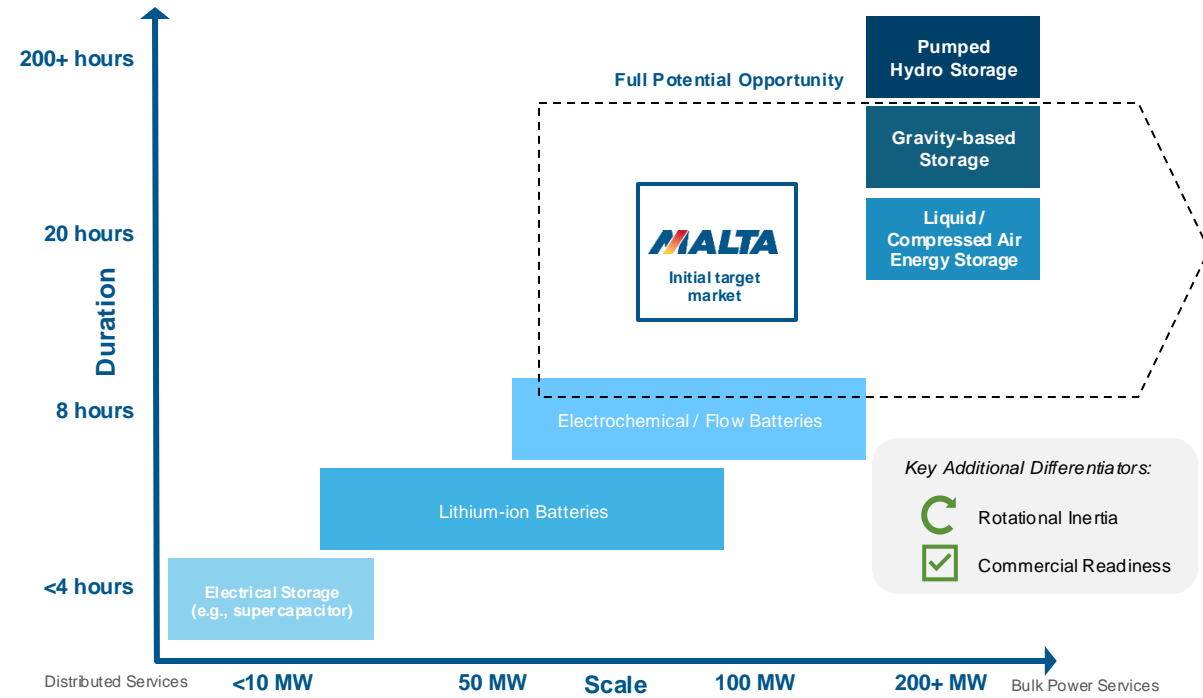
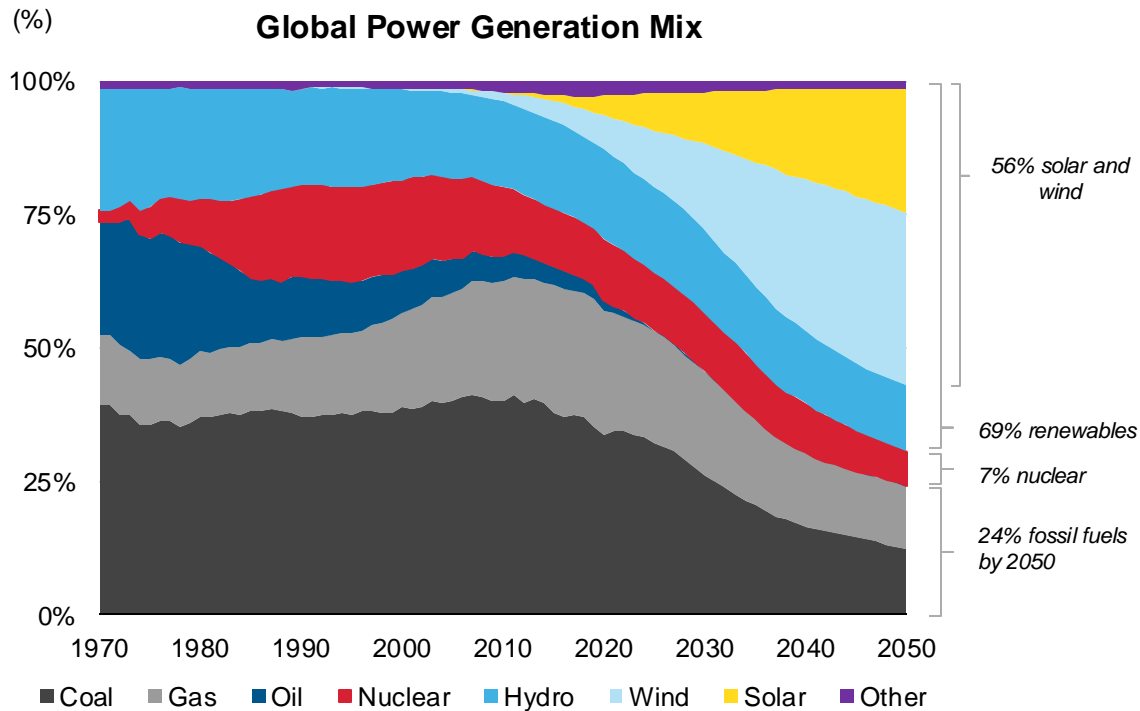
Malta is unique in the LDES landscape

Malta can provide both Long Duration Storage and Grid Reliability services

Operates at utility-scale – no other LDES technology can replicate what Malta can do, and where it can go, in this space.

Malta's Synchronous Inertia Needed to Provide Grid Stability

Unique Combination of Capacity and Duration



Source: BloombergNEF.

Malta Product Offerings

Malta's product line range offers flexible storage and grid reliability solutions for renewable power generation and the replacement needs of utility scale fossil gas and coal plants

Use Cases



Fossil Asset Replacement

- As large coal and gas plants retire, utilities need to replace the attributes from these facilities, including capacity, dispatchable renewable power and grid reliability services
- Malta can act as a like-for-like replacement for these retiring fossil assets



Flexible and Low-cost Storage

- Malta's duration sweet spot is 8 hours to 8 days – provides the critical bridge from lithium-ion towards seasonal durations
- Can scale up duration at low incremental cost



Grid Stability Services

- Reliability services are going away as fossil plants retire and renewables (solar, wind) and lithium-ion does not provide these services in a meaningful way
- Malta provides these services that are essential for grid stability as the energy transition continues

Malta System Advantages



Utility Scale

- Malta's facilities can range in capacity from 100 MW up to hundreds of MWs



Geologic / Geographic Flexibility

- Other LDES technologies of similar scale – pumped hydro and CAES – are highly geographically limited
- Malta facilities do not need caverns and have no siting limitations
- Malta can go *anywhere*

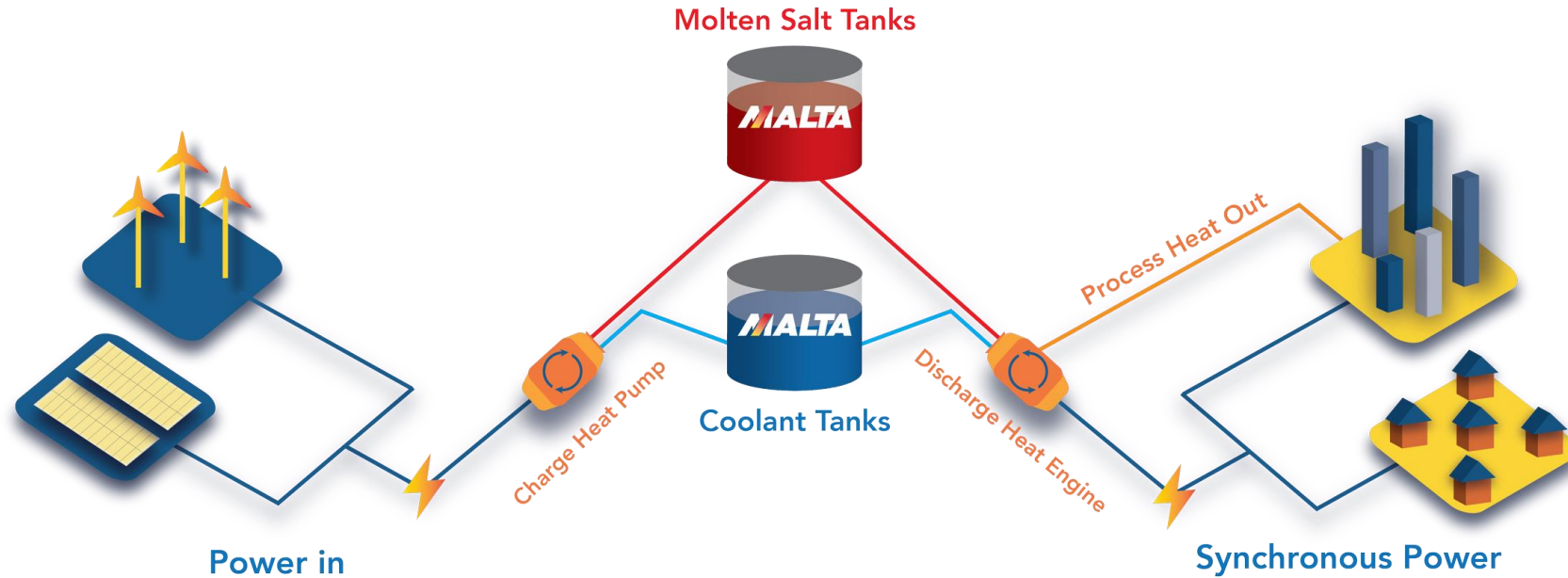


Range of Offerings

- Family of products offer differentiated operational capabilities and price points
- Malta provides a range of offerings tailored to customer needs

Malta's Pumped Heat Energy Storage (PHES) Technology

- Electricity-in, electricity-out PHES
- Grid-scale (100+ MW) Molten Salt
- Duration: 8 hours to 8 days
- Optional industrial process heat output (120°C)



Technology Overview:

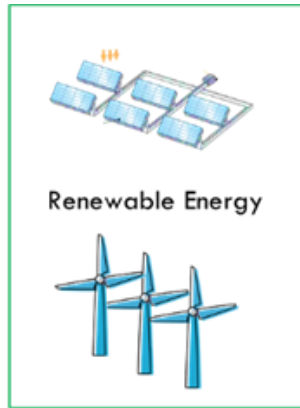
Malta's Steam Rankine (SR) Pumped Heat Energy Storage (PHES) solution has a unique set of characteristics within long-duration energy storage technologies.

- ✓ Grid size (100-500+MW)
- ✓ Electricity-to-electricity (Electricity-to-Heat possible)
- ✓ Synchronous inertia (same as equivalently rated steam turbine)
- ✓ Long duration (10+hours) storage
- ✓ Industrial heat capability
- ✓ RTE >55%
- ✓ Ability to integrate with other steam generation assets
 - Re-use of steam generation cycle in coal plants being retired
 - Integration to new or existing CCGT plants

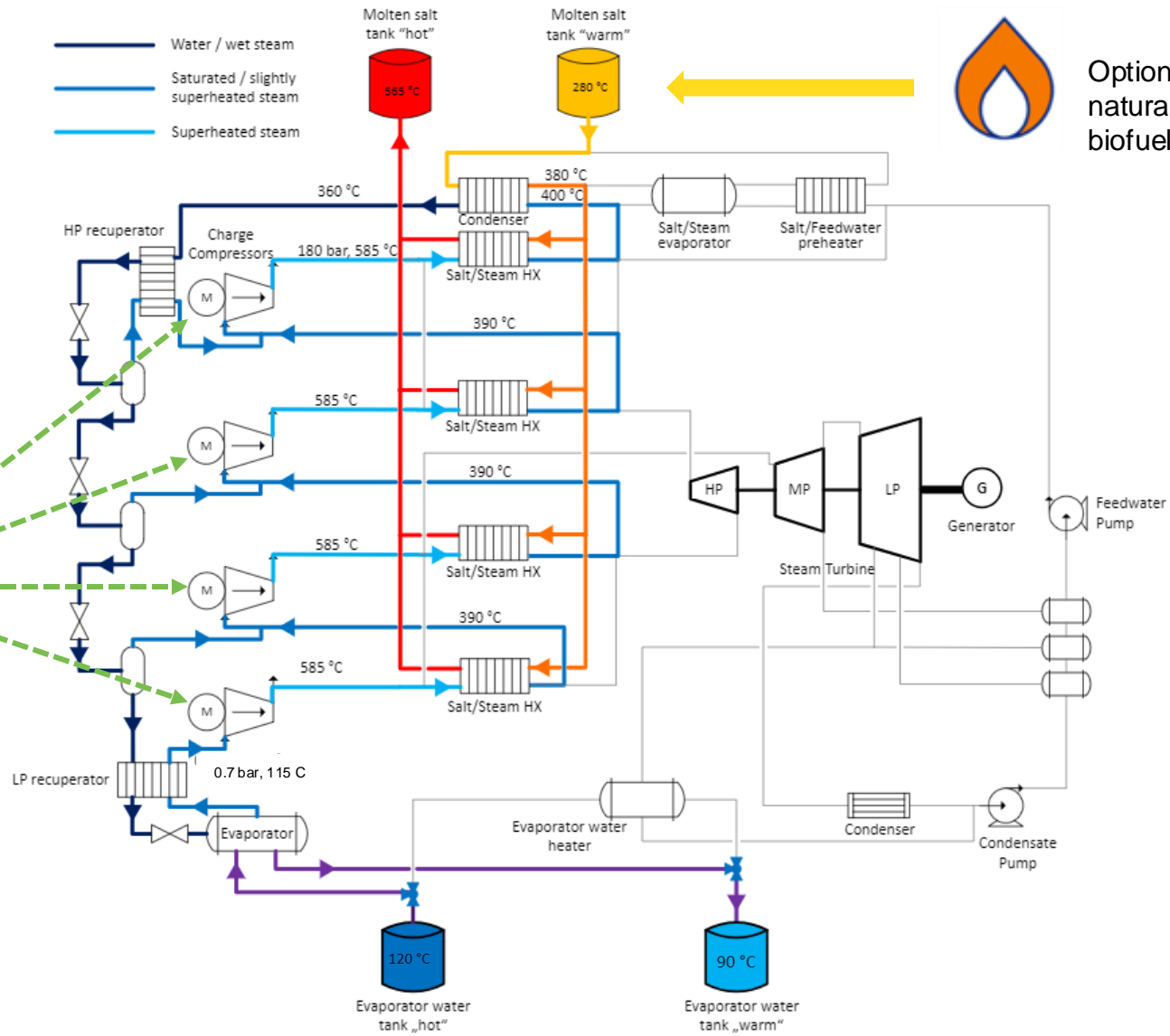


Malta Steam Rankine (SR) Long Duration Energy Storage: Charge Cycle

- Heat pump with multiple compression stages with intercooling, connected in series
- Salt-Steam HXs:** Compressed steam heats salt to 565C



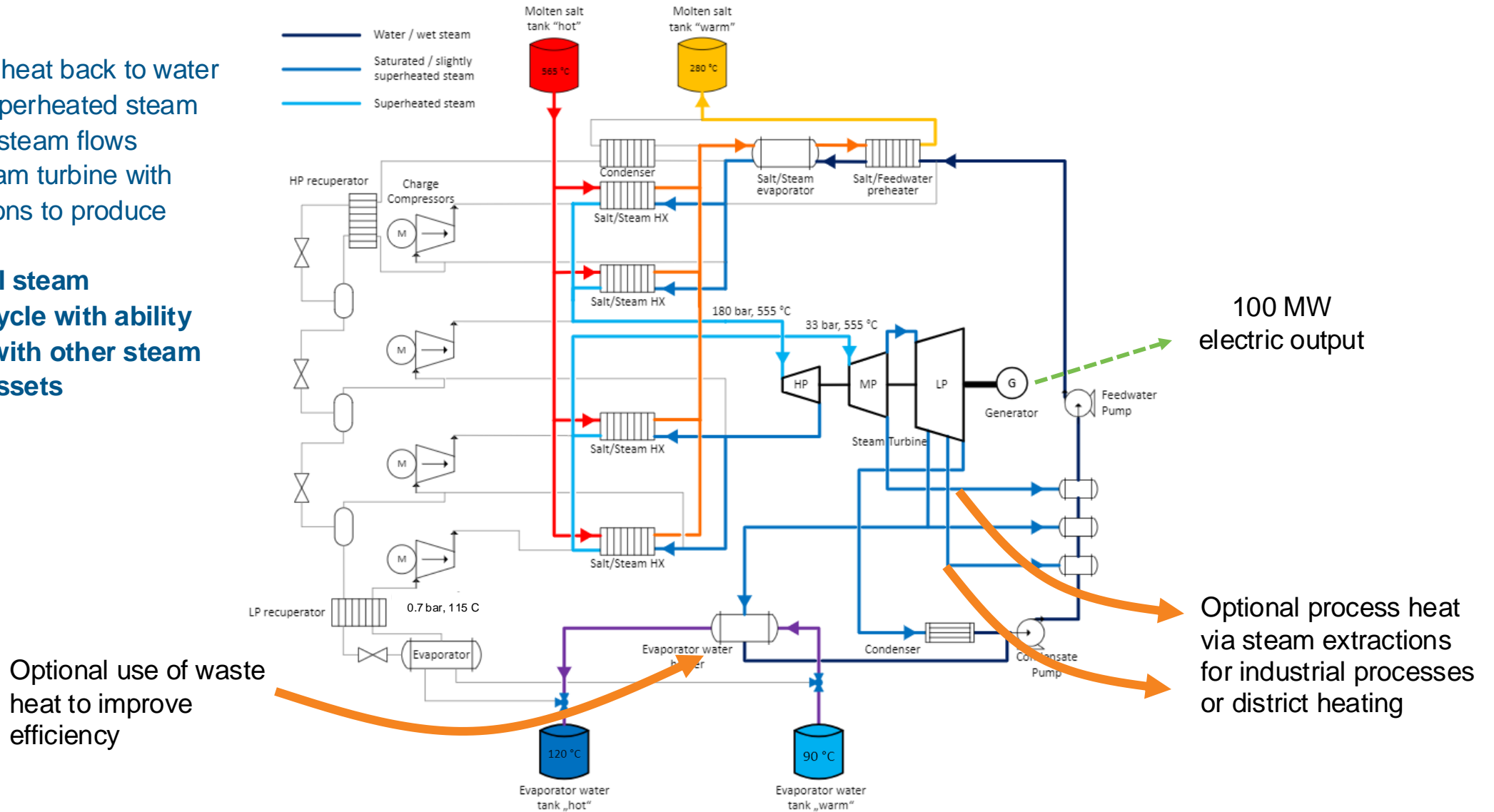
~180MW charge power
COP >1.6



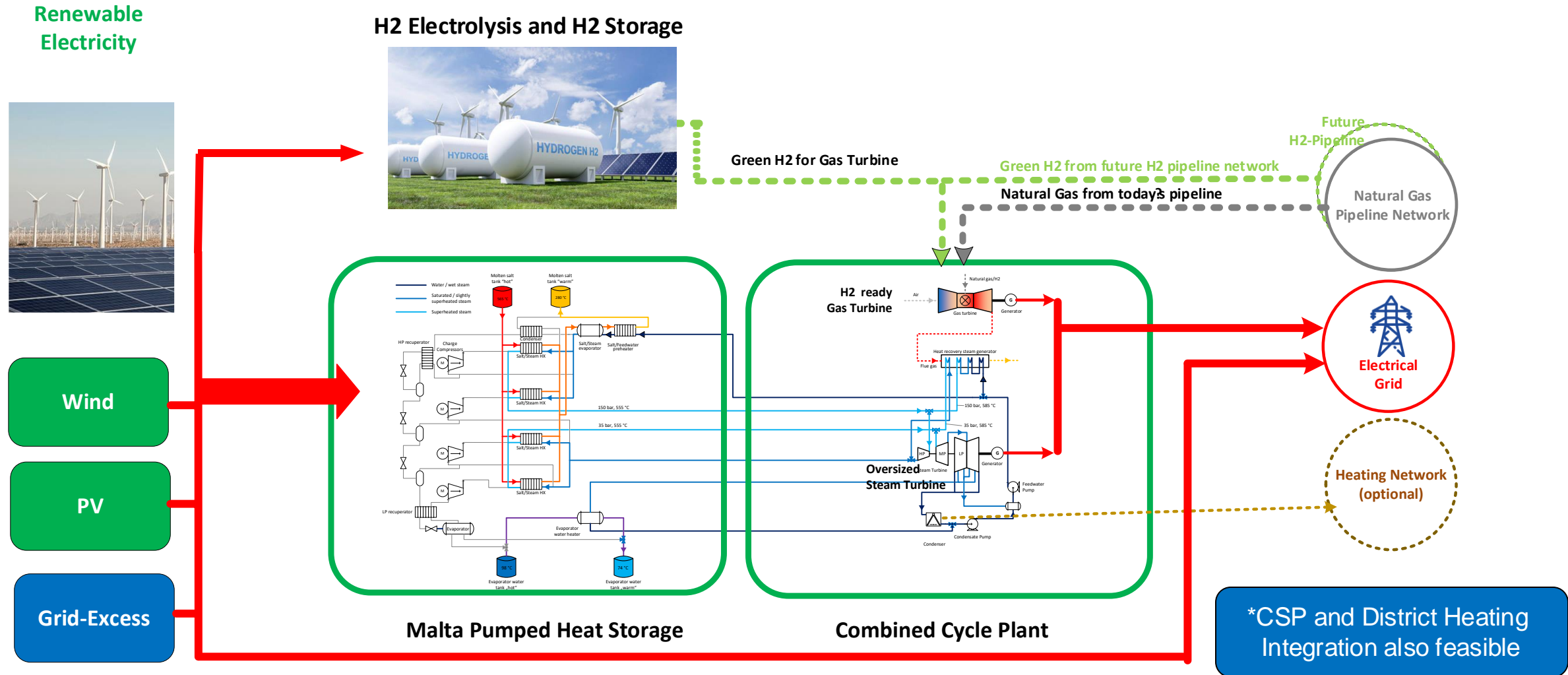
Optional back-up firing with natural gas, hydrogen, or other biofuels to increase availability

Malta Steam Rankine (SR) Long Duration Energy Storage: Generation Cycle

- Salt transfers heat back to water to produce superheated steam
- Superheated steam flows through a steam turbine with multiple sections to produce electricity
- **Conventional steam generation cycle with ability to integrate with other steam generation assets**



1 Example: Decarbonize Gas Fired Combined Cycles with Malta SR PHES ...and prepare transition to Hydrogen Firing



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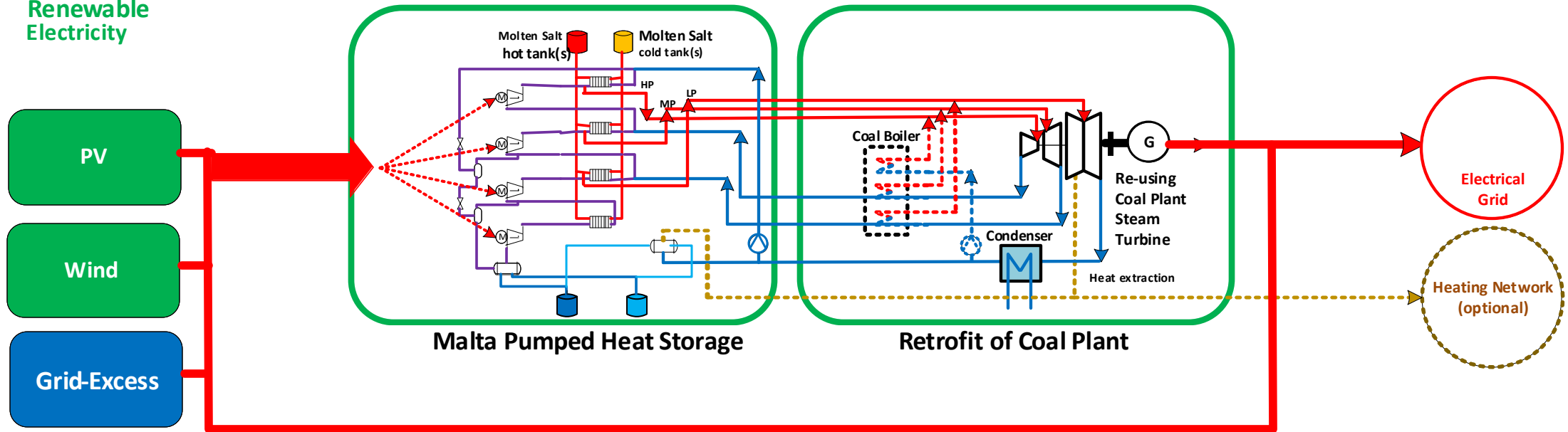
Example: Optimized transition for coal plants with Malta SR PHES



Renewable Electricity



Synchronous Long Duration Energy Storage
to Make Variable Renewables Dispatchable,
Replace Coal-Fired Power Plants and
Keep the Lights on

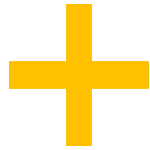


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Stand Alone Malta SR PHES



Renewable Electricity

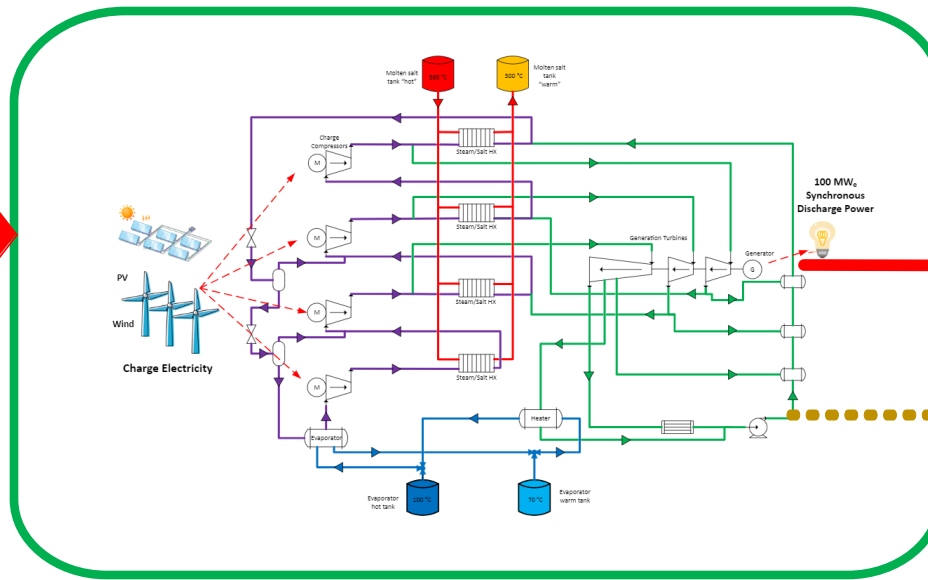


Synchronous Long Duration Energy Storage
to Make Variable Renewables Dispatchable,
Replace Coal-Fired Power Plants and
Keep the Lights on

PV

Wind

Grid-Excess

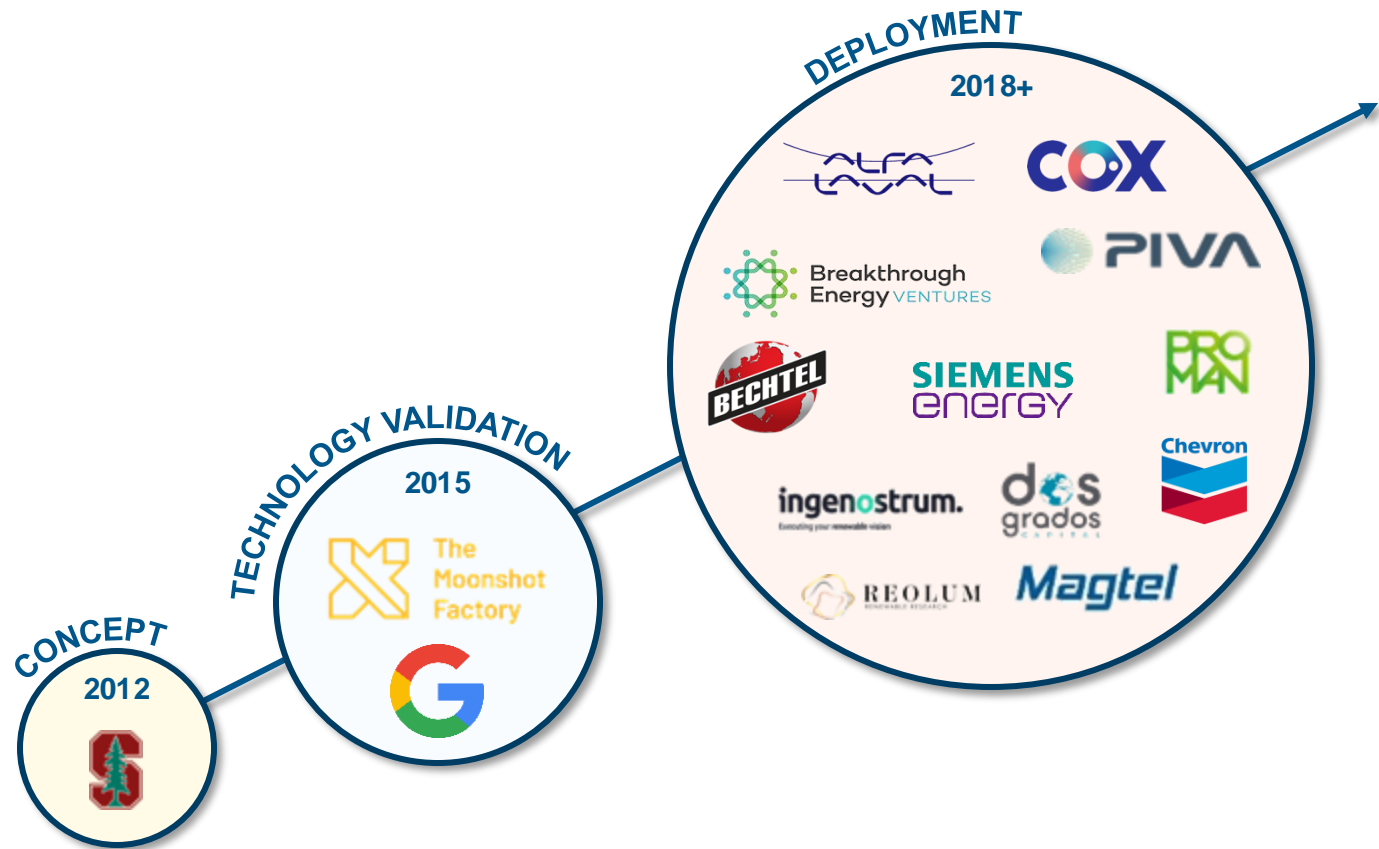


Electrical Grid

Heating Network (optional)

Malta is a leading technology provider of electro-thermal LDES systems.

Malta's molten salt systems store renewable energy for 8 hours to 8 days with multiple discharge applications



Low-Cost



Long-Duration

8 hours to 8 days



Grid-Scale

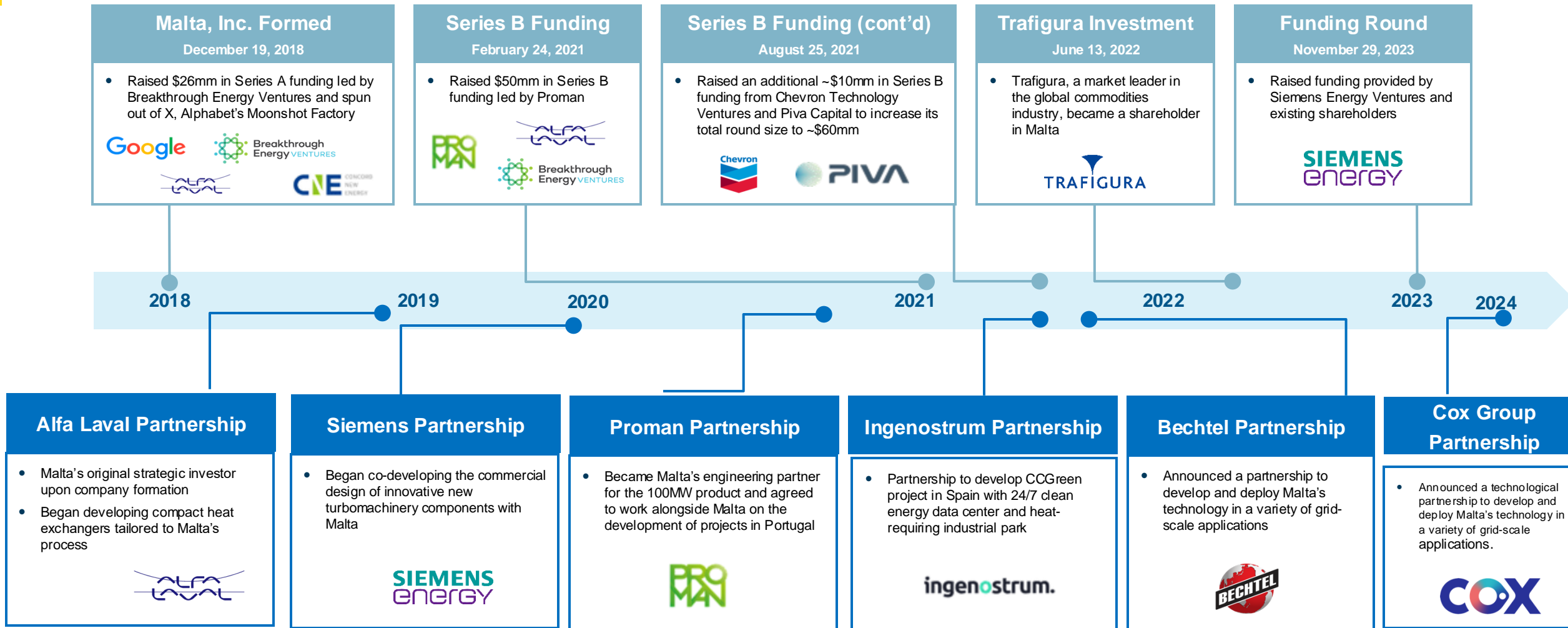
100 MW+
50/60 Hz



Multi-Application

Electricity, heat, inertia

Funded by world-class investors and partnered with industry leaders



Source: Pitchbook, Company Websites.

Malta Investor Activity Malta Strategic Activity

Partnership Approach – Key Investors and strategics bolster Malta



A robust ecosystem of blue-chip investors, technology and deployment partners provides **strong validation** and **execution capability**

Malta Inc. Series-C funding announcement

02 December 23, COP28



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Christian Bruch (CEO-Siemens Energy)

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Video Introduction of Malta's Technology:



<https://www.youtube.com/watch?v=PXwFvOTPp18>



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