AEGiSS ESCW

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Polygenerator System

The Transformational Polygeneration System for the 21st Century

Lowest VALCOE - $64 / MWh

Fastest Installation – Operational within 18 months

Integrated Storage

Replaces HVAC (40% saving for Data Center)

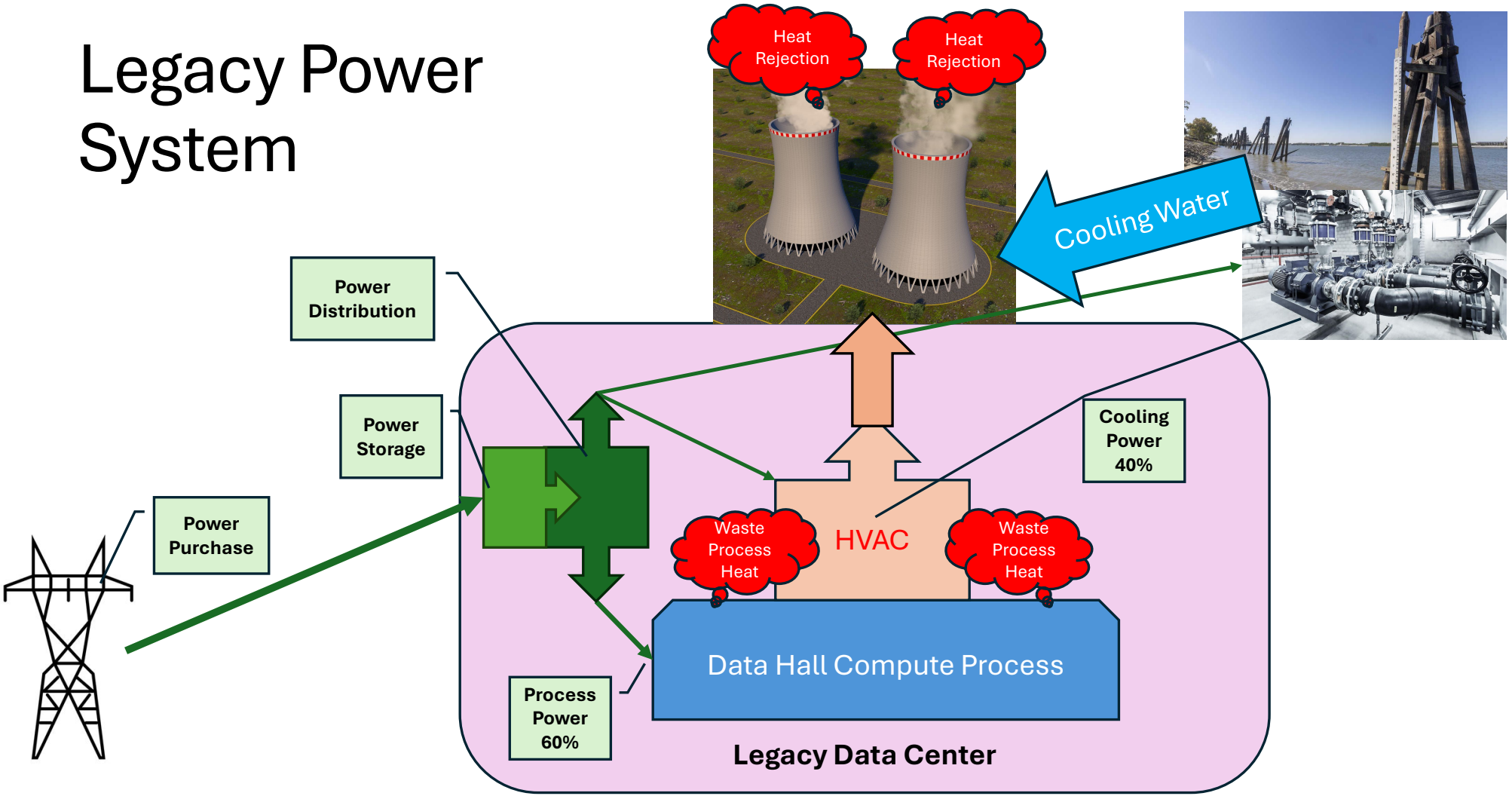
Produces Potable Water

AEGiSS ESCW Benefits (20 MW Base Plant)

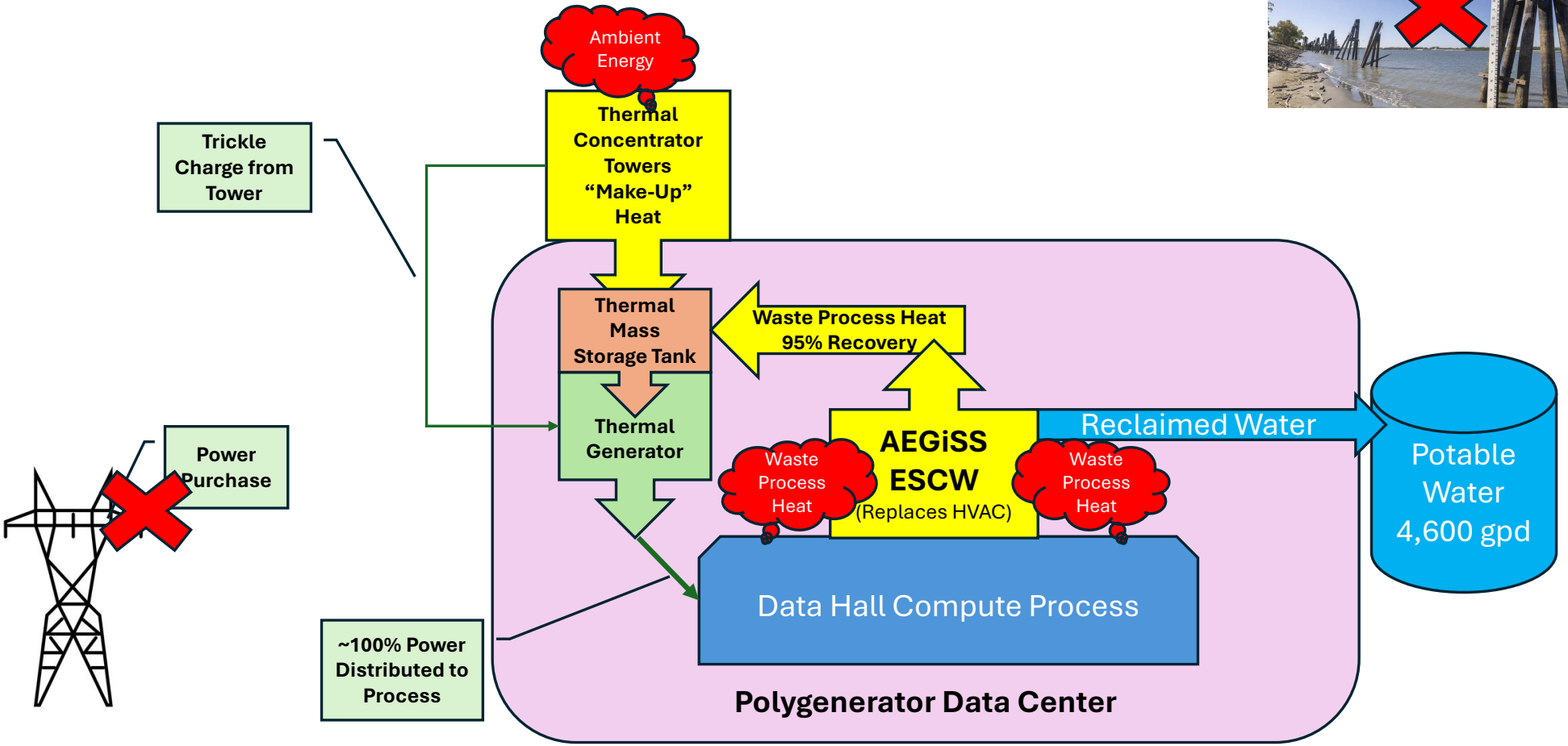
Zero fuel → **Reduce** fuel costs to zero by **Recycling** waste heat and **Reusing** to create electricity
Zero emission / negligible environmental impact → **only Truly Green power**
4,600 gpd potable water → **Produces water / no social resistance**
Integrated Cooling → **Zero HVAC costs ~ OPEX 40%**
VALCOE $64/MWh → **Lowest power cost**
100% Capacity Factor → **Reliable 24/7 baseload output**
12-15 months to CoD* → **Fastest ROI**
1/3 acre for 20 MW → **Ideal for retrofit in constrained Urban sites**
O&M ~$5/MWh → **Predictable low maintenance costs**

**ideal project plan, assumes no site impediments*

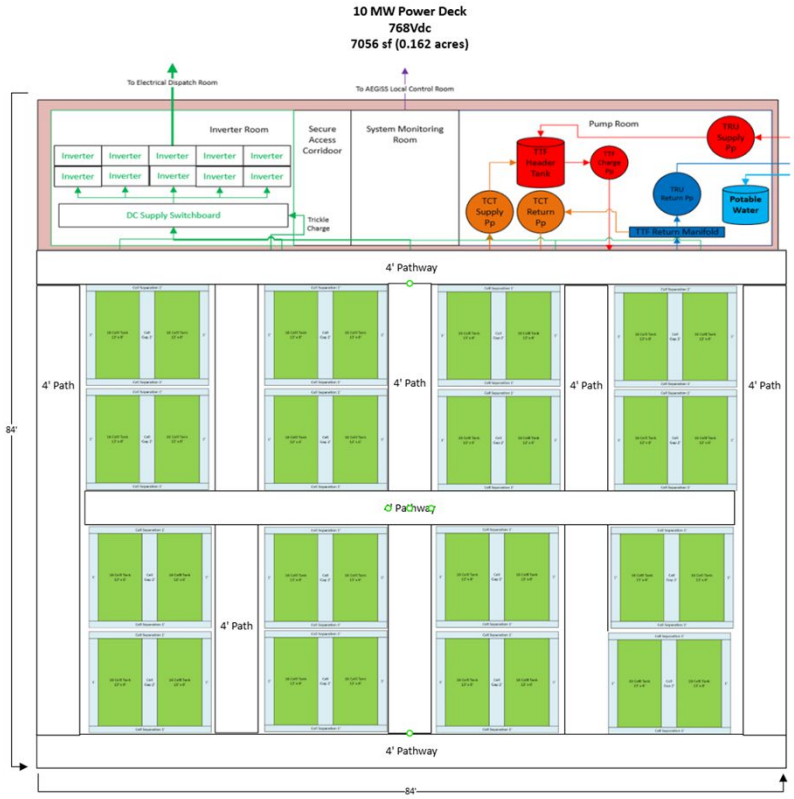
Legacy Power System



AEGiSS ESCW Polygenerator System



AEGiSS ESCW 10 MW Polygeneration System



- AEGiSS 10 MW power generation field (scalable to > 1GW)
- 33 MWh integrated storage
- 16 Power Modules
- 12 x 50T Thermal Recapture Units
- 120 Thermal Concentrator Towers
- Local Plant – Inverters, System Monitoring, and Pump Room

AEGiSS Scalability 20MW –> 100MW -> 1 GW

- 20 MW base power plant:
  - 2 x 10 MW thermal generator field (Basic Building Block 1/3 acre)
  - Site Specific Powerhouse-sized for future expansion needs (Point of Interconnection & Local Control Room)
- 100 MW AEGiSS ESCW Plant (~2 Acres)
- 10 x 100 MW Plants = 1 GW ~ 20 Acres

AEGiSS ESCW Benefits - **#1 Ranked Lowest cost, fastest deployment, smallest footprint, water-positive**

VALCOE: USD 64 per MWh

Lifetime cost: $1.93–2.05B NPV

Up-front cash: $188 million

Speed to Revenue 15–18 m to COD

- 3–6× faster than gas / CCS
- 5–8× faster than nuclear

OPEX Cost Advantage - $5 / MWh

- Zero fuel cost, zero CO_2, no carbon or fuel price risk

Minimal Siting footprint: ~5 acres

- Enables brownfield, retrofit, and co-location projects

Minimal Resource Risk

- No fuel supply, location, or licensing constraints

Water-Positive –9.6 gal per MWh

- No Permitting Resistance

Infrastructure-Grade Asset

- 75-year plant life

Primary Investor Risk:

- Technical validation

A Proven Team – Ensures Successful Execution

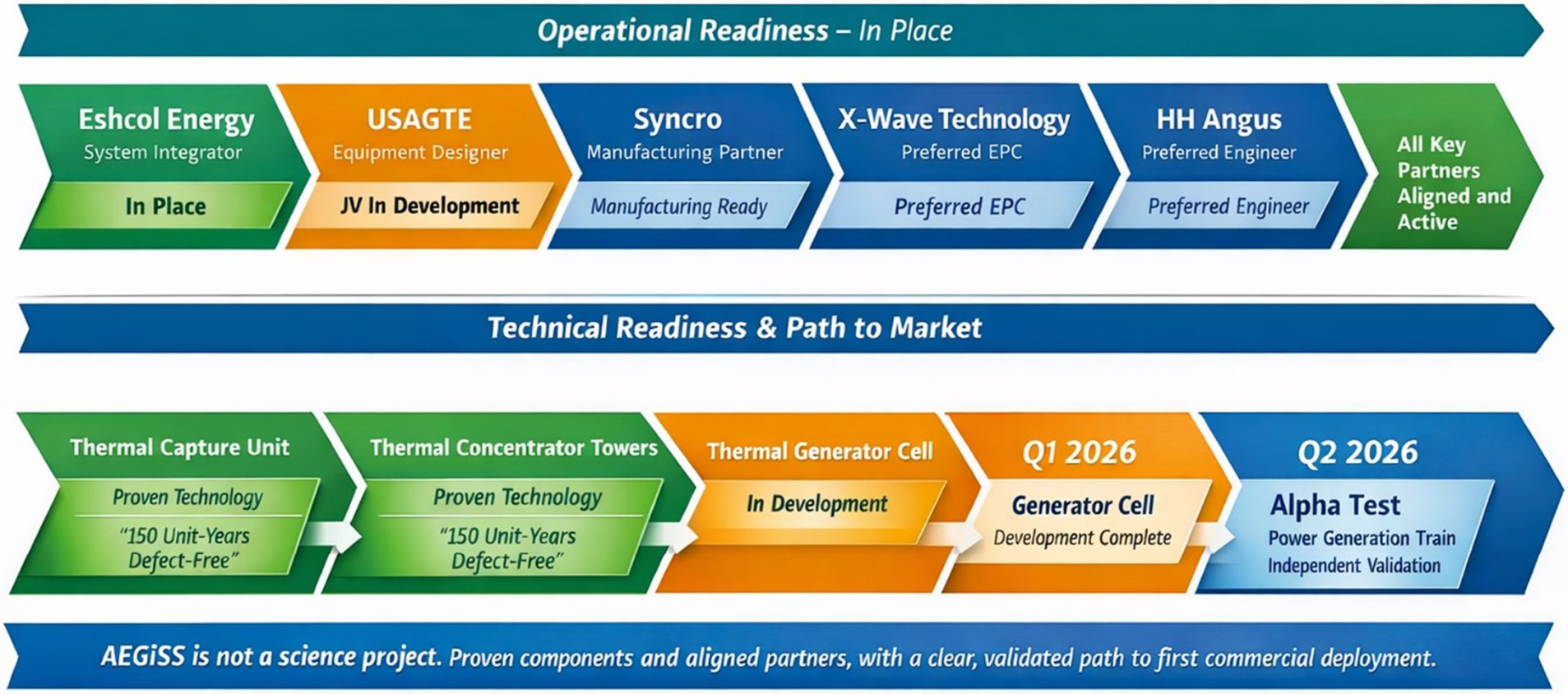
A strong management team to execute the business plan with relevant and successful experience.

- Eshcol - Systems integrator (ex-Siemens Energy & Groq)
- USA GTE (thermal recapture engineering company)
- X Wavetech (EPC - 20-year data-center leader)
- HH Angus consulting firm of engineers, technical specialists and project managers with 105 years innovating solutions for complex challenges
- Syncro (DoD-approved contract manufacturer – 79-year history)

Together delivering decades of engineering start-up success.

AEGiSS System – Operational and Technical Readiness

Partner alignment, component maturity, and time-based path to first commercial deployment



AEGiSS is not a science project. *Proven components and aligned partners, with a clear, validated path to first commercial deployment.*

AEGiSS Technology Update – 3/23/2026

- Transport fluid T increased to 212F (max)
- No degradation of Power Cell lifetime stability
- Power output increases at least 3x (from 2.25 in previous models)
- Opens the utility market for power boosting of existing plants
  - Divert *some* thermal energy from legacy generators
  - Boosts plant electrical output ~15-20% (depending on initial performance)

Implementation Roadmap

From Receipt of funding:

- Complete Prototype Design: 4 weeks
- Complete Prototype Build: 8 – 12 weeks
- Complete Alpha validation Testing 4 weeks

- Assuming funds received early March – Ready for market by the end of 2026 Q2

$1M Investment – Use of Funds

Technical & Engineering

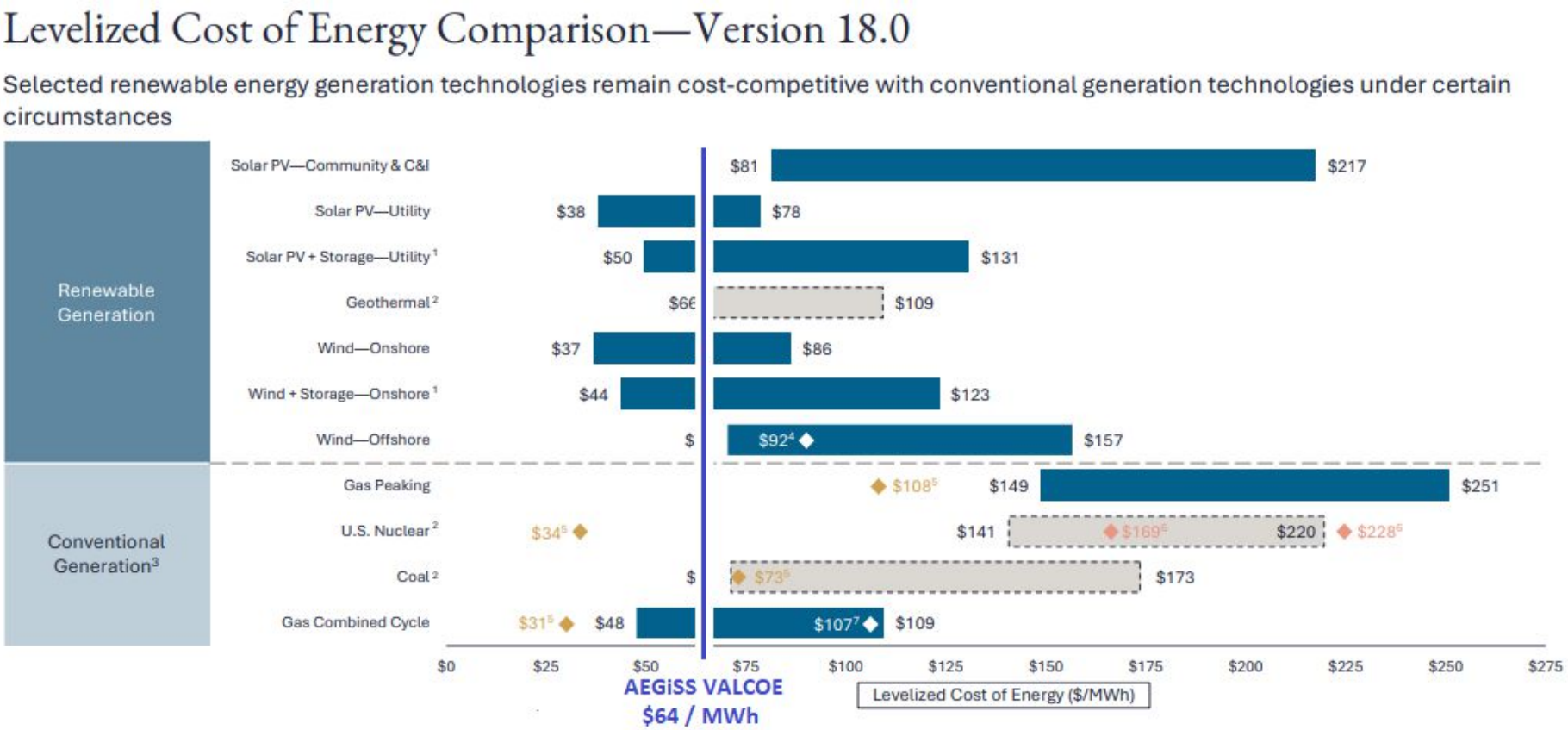
- $250k – complete prototype power cell
- $150k Alpha validation independent testing
- $100k Engineering services

Operations & Commercial

- $100k corporate infrastructure
- $100k cover incurred expenses
- $300k Operating cost (assumes 6 months to first deposit)

AEGiSS ESCW CAPEX Analysis

Lazard Levelized Cost of Energy



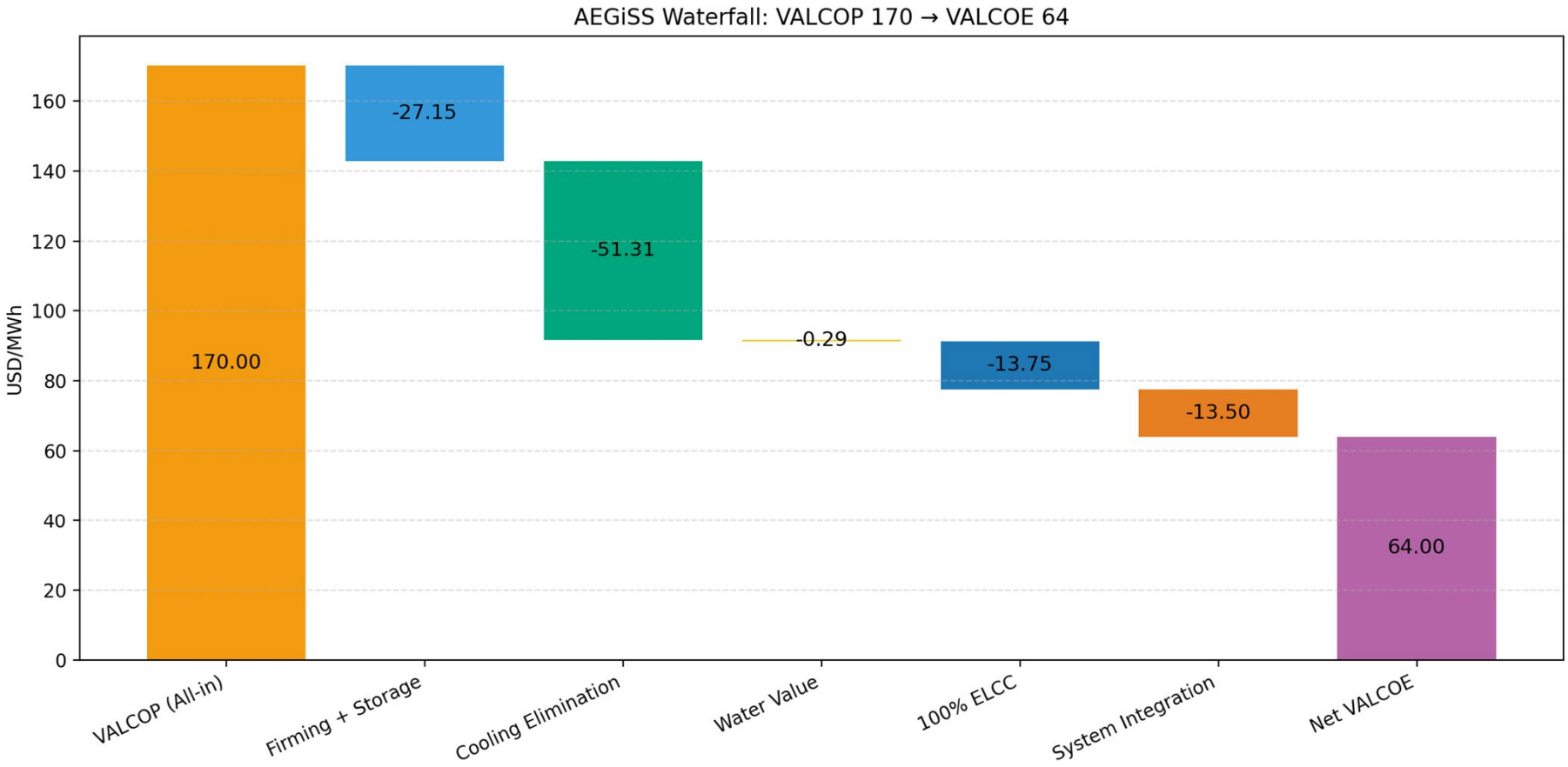
AEGiSS ESCW Polygeneration Value Pricing

Rank	Technology	LCOE ($ /MWh)	Lifetime Cost of Ownership NPV ($$ bilion)	Cash Up-Front ($M)	Lead Time (months)	Plant Life	Land Usage (acres)	Water Consumption (gal/MWh)	Primary Risk for New Build
1	**AEGiSS ESCW 100MW**	64 *	$1.93 - 2.05	188	15–18	75	5	–9.6 (produces)	Technical validation required (proprietary tech)
2	Geothermal (binary/next-gen EGS)	66 – 109 (88)	$2.1 – $2.9	600 – 950	48–72	30	50–250	0 – 50	Location risk limited to 5% of US - can't support existing build
3	Gas CCGT (F/H-class)	48 – 109 (79)	$1.9 – $2.45	120 – 155	36 - 96	30	10–15	50 – 100	Fuel price & carbon offset, increasing OEM delays 3-8 years
4	Gas CCGT + 90 % CCS	78 – 149 (114)	$2.6 – $3.2	280 – 380	36 - 96	30	20–30	200 – 300	Same as CCGT plus CO_2 dispatch availability
5	Onshore Wind (fully Firmed)	140 - 240 (190)	$2.5 - $4.5	700 - 1,100	36 - 60	40	2,500 - 4,000	0	Intermittency firming, land opposition & permitting delays
6	Utility Solar PV + 4 h Battery (includes firming adders)	50 – 131 (91)	$2.9 – $6.8	800 – 1,200	30–48	30	3,500 - 5,000	~0	Extreme Land usage, permitting, firming complexity
7	Nuclear SMR	110 – 150 (130)	$5.8 – $8.9	780 – 1,350	60–84	70	40–100	400 – 600	Execution & licensing - (Earliest Availablility 2029–2032)
8	Large Nuclear (Vogtle-style)	141 – 220 (181)	$7.8 – $10.9	1,000 – 1,400	84–120+	70	400–600	600 – 800	Highest risk of cost & schedule overruns

AEGiSS Levelized Cost of Production

- Net Capacity 100MW
- Total CAPEX $1.88B
- Plant Life 75 years
- Real WACC: 7.7% (Lazard 2025 methodology)
- Capacity Factor 100% (continuous baseload / behind the meter)
- Variable O&M $5 / MWh
- Integrated Service: Energy, Storage, Cooling & Water included in CAPEX

Converting LCOP to LCOE



Custom Cost Benefit Analysis

- To find out whether the AEGiSS Polygenerator system is a good fit for your baseload power needs, please contact the person who sent you this video

- OR email sales@eshcol.energy

And request a Custom Cost-Benefit Analysis tailored for your use case.

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