LAZARD'S LEVELIZED COST OF STORAGE ANALYSIS-VERSION 7.0

LAZARD

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I Introduction

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Introduction

Lazard's Levelized Cost of Storage ("LCOS") analysis⁽¹⁾ addresses the following topics:

- Introduction
 - A summary of key findings from Lazard's LCOS v7.0
- Lazard's LCOS analysis
 - Overview of the operational parameters of selected energy storage systems for each use case analyzed
 - Comparative LCOS analysis for various energy storage systems on a \$/kW-year and \$/MWh basis
- Energy Storage Value Snapshot analysis
 - Overview of the Value Snapshot analysis and identification of selected geographies for each use case analyzed
 - Summary results from the Value Snapshot analysis
- A preliminary view of long-duration storage technologies
- Selected appendix materials
 - Supplementary materials for Lazard's LCOS analysis, including methodology and key assumptions employed
 - Supporting materials for the Value Snapshot analysis, including pro forma results for the U.S. and International Value Snapshot case studies

Summary of Key Findings and Observed Trends in the Energy Storage Industry

	Concerns regarding the availability of Lithium-ion battery modules are increasing given ongoing supply constraints
	 Supply constraints in commodity markets and manufacturing activities have led end-users to more seriously consider Tier 2 and Tier 3 suppliers
	 Stationary storage applications are increasingly competing with EVs over module supply as automobile manufacturers continue to shift product offerings away from traditional gasoline- and diesel-fueled vehicles
	 Module demand from EVs is expect to increase to ~90% from ~75% of end-market demand by 2030. Stationary storage currently represents <5% of end market demand and is not expected to exceed 10% of the market by 2030
	 Pressure on legacy integrators continues to build as the industry matures
Technology	 Battery OEMs are moving downstream in an effort to capture more margin and expand market share, offering fully wrapped DC blocks, i.e., storage modules, container, supporting controls, fire suppression and associated cabling
	 Concurrently, some developers are expanding in-house engineering, procurement and construction activities
	- Legacy integrators are moving into energy management software, with many acquiring distributed energy resource management platforms
	Market preference has shifted significantly towards Lithium Iron Phosphate ("LFP") vs. Nickel Manganese Cobalt ("NMC") chemistries
	 Industry participants increasingly prefer LFP chemistries given perceived fire safety, cost and operational advantages (e.g., depth of discharge). The cost advantage of LFP chemistries tends to be more pronounced in shorter-duration applications
	 Interest in longer-duration technologies continues to grow in tandem with expectations of ever greater penetration of renewable energy generation
	 Adoption, however, remains limited given a lack of required technology and duration-specific price signals in wholesale markets (e.g. capacity)
	 Hybrid applications are becoming more valuable and, by extension, widespread as grid operators begin adopting Estimated Load Carry Capability ("ELCC") methodologies to value resources
Use Cases	 Adoption of ELCC methodologies is driving increasing deployment of hybrid resources (e.g., storage paired with solar) to mitigate resource intermittency. Storage co-located with solar is expected to be most attractive in the U.S. Midwest, including in the Southwest Power Pool ("SPP") region
USE Cases	 In ERCOT, for example, hybrid assets account for ~35% of storage MW in the current interconnection queue (i.e., ~29% solar, ~1% wind and ~5% other)
	• Developers are increasingly targeting markets in the Western U.S. (California), Western Europe and South America for long duration storage projects as these areas experience ever greater penetration of intermittent renewable energy generation in tandem with declining dispatchable conventional generation capacity





II Lazard's Levelized Cost of Storage Analysis v7.0

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Energy Storage Use Cases—Overview

By identifying and evaluating the most commonly deployed energy storage applications, Lazard's LCOS analyzes the cost and value of energy storage use cases on the grid and behind-the-meter

			Use Case Description	Technologies Assessed
eter	1	Wholesale	 Large-scale energy storage system designed for rapid start and precise following of dispatch signal. Variations in system discharge duration are designed to meet varying system needs (i.e., short-duration frequency regulation, longer-duration energy arbitrage⁽¹⁾ or capacity, etc.) To better reflect current market trends, this report analyzes one-, two- and four-hour durations⁽²⁾ 	 Lithium Iron Phosphate Lithium Nickel Manganese Cobalt Oxide Flow Battery—Vanadium Flow Battery—Zinc Bromine
In-Front-of-the-Meter	2 ^T	Fransmission and Distribution	 Energy storage system designed to defer or avoid transmission and/or distribution upgrades, typically placed at substations or distribution feeders controlled by utilities to provide flexible capacity while also maintaining grid stability 	 Lithium Iron Phosphate Lithium Nickel Manganese Cobalt Oxide Flow Battery—Vanadium Flow Battery—Zinc Bromine
ln-Fi	3	Wholesale (PV+Storage)	 Energy storage system designed to be paired with large solar PV facilities to better align timing of PV generation with system demand, reduce solar curtailment and provide grid support 	 Lithium Iron Phosphate Lithium Nickel Manganese Cobalt Oxide Flow Battery—Vanadium Flow Battery—Zinc Bromine
iter	4	Commercial & Industrial (Standalone)	 Energy storage system designed for behind-the-meter peak shaving and demand charge reduction for C&I energy users Units often configured to support multiple commercial energy management strategies and provide optionality for the system to provide grid services to a utility or the wholesale market, as appropriate in a given region 	 Lithium Iron Phosphate Lithium Nickel Manganese Cobalt Oxide Flow Battery—Vanadium Flow Battery—Zinc Bromine
Behind-the-Meter	5	Commercial & Industrial (PV+Storage)	 Energy storage system designed for behind-the-meter peak shaving and demand charge reduction services for C&I energy users Systems designed to maximize the value of the solar PV system by optimizing available revenue streams and subsidies 	 Lithium Iron Phosphate Lithium Nickel Manganese Cobalt Oxide Flow Battery—Vanadium Flow Battery—Zinc Bromine
	6	Residential (PV+Storage)	 Energy storage system designed for behind-the-meter residential home use—provides backup power, power quality improvements and extends usefulness of self-generation (e.g., PV+storage) Regulates the power supply and smooths the quantity of electricity sold back to the grid from distributed PV applications 	 Lithium Iron Phosphate Lithium Nickel Manganese Cobalt Oxide

Source: Industry interviews, Lazard and Roland Berger.

Note: Use case numbering shown above serves as an identifier for the corresponding individual use cases discussed on subsequent pages.

For the purposes of this analysis, "energy arbitrage" in the context of storage systems paired with solar PV includes revenue streams associated with the sale of excess generation from 3 (1) the solar PV system, as appropriate, for a given use case.

(2)

The Value Snapshot analysis only evaluates the four-hour wholesale use case.

D x E

Energy Storage Use Cases—Illustrative Operational Parameters

Lazard's LCOS evaluates six commonly deployed use cases for energy storage by identifying illustrative operational parameters⁽¹⁾

• Energy storage systems may also be configured to support combined/"stacked" use cases

						B X C =			x F =	A x G =
	A	B				D	E	F	G	H
u = "Usable Energy" ⁽²⁾	Project Life (Years)	Storage (MW) ⁽³⁾	Solar PV (MW)	Battery Degradation (per annum)	Storage Duration (Hours)	Nameplate Capacity (MWh) ⁽⁴⁾	90% DOD Cycles/ Day ⁽⁵⁾	Days/ Year ⁽⁶⁾	Annual MWh	Project MWh
	20	100		2.6%	1	100	1	350	31,500	630,000
Wholesale ⁽⁷⁾	20	100		2.6%	2	200	1	350	63,000	1,260,000
	20	100		2.6%	4	400	1	350	126,000	2,520,000
1 Wholesale ⁽⁷⁾ 2 Transmission and Distribution ⁽⁷⁾	20	10		1.5%	6	60	1	25	1,350	27,000
Wholesale (PV+Storage) ⁽⁷⁾	20	50	100	2.6%	4	200	1	350	63,000	1,260,000
Commercial & Industrial (Standalone)	10	1		2.6%	2	2	1	250	450	4,500
 Industrial (Standalone) Commercial & Industrial (PV+Storage)⁽⁷⁾ 	20	0.50	1	2.3%	4	2	1	350	630	12,600
6 Residential (PV+Storage)	20	0.006	0.010	1.9%	4	0.025	1	350	8	158
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Source: Lazard and Roland Berger.

Note: Operational parameters presented are applied to Value Snapshots and LCOS calculations. Annual and Project MWh presented are illustrative. Annual battery output in the Value Snapshot analysis depends on a participation optimization analysis and may vary from the representative project MWh by use case.

The six use cases below represent illustrative current and contemplated energy storage applications and are derived from Industry survey data.

(2) Usable energy indicates energy stored and available to be dispatched from the battery.

(3) Indicates power rating of system (i.e., system size).

(4) Indicates total battery energy content on a single, 100% charge, or "usable energy." Usable energy divided by power rating (in MW) reflects hourly duration of system. This analysis reflects common practice in the market whereby batteries are upsized in year one to 110% of nameplate capacity (e.g., a 100 MWh battery actually begins project life with 110 MWh).

(5) "DOD" denotes depth of battery discharge (i.e., the percent of the battery's energy content that is discharged). Depth of discharge of 90% indicates that a fully charged battery discharges 90% of 4 its energy. To preserve battery longevity, this analysis assumes that the battery never charges over 95%, or discharges below 5%, of its usable energy.
 (6) Indicates number of days of system operation per calendar year.

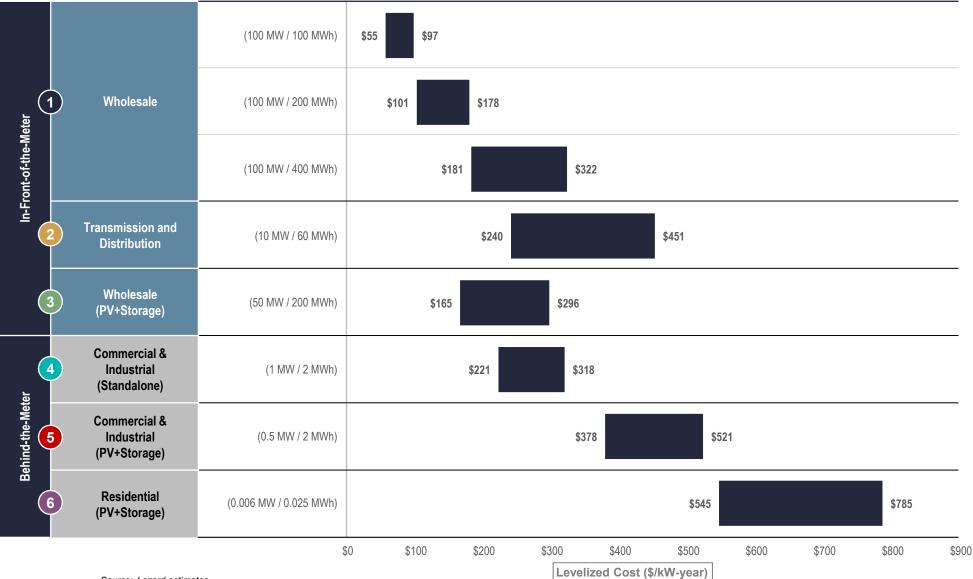
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(1)

Unsubsidized Levelized Cost of Storage Comparison-Capacity (\$/kW-year)

Lazard's LCOS analysis evaluates storage systems on a levelized basis to derive cost metrics based on nameplate capacity



Source: Lazard estimates. Note: Here and through

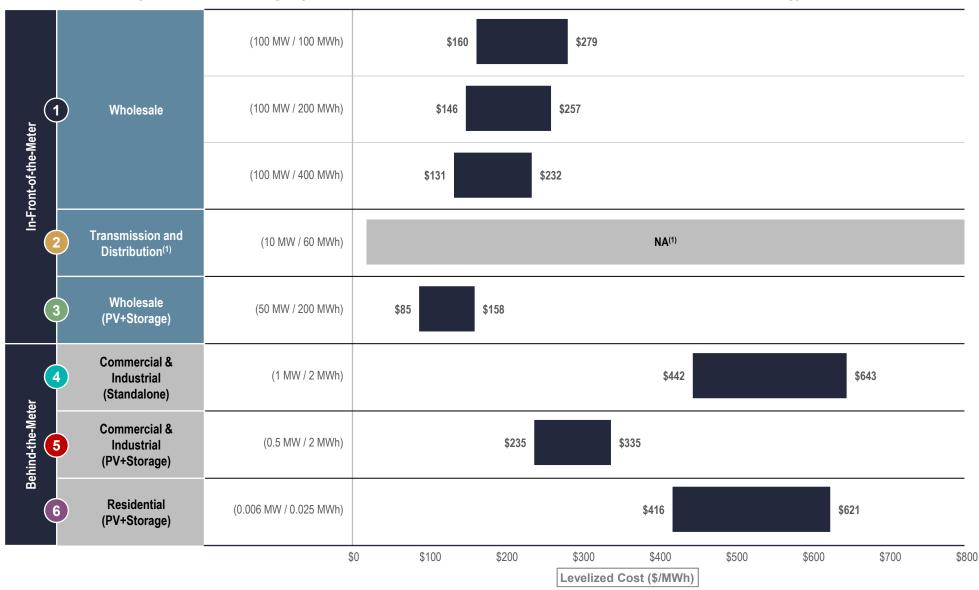
LAZARD Copyright 2021 Lazard Here and throughout this presentation, unless otherwise indicated, analysis assumes a capital structure consisting of 20% debt at an 8% interest rate and 80% equity at a 12% cost of equity. Capital costs are composed of the storage module, balance-of-system and power conversion equipment, collectively referred to as the Energy Storage System ("ESS"), solar equipment (where applicable) and EPC. Augmentation costs are included as part of O&M expenses in this analysis and vary across use cases due to usage profiles and lifespans.

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Unsubsidized Levelized Cost of Storage Comparison-Energy (\$/MWh)

Lazard's LCOS analysis evaluates storage systems on a levelized basis to derive cost metrics based on annual energy output



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Source: Lazard estimates

(1)

Given the operational parameters for the Transmission and Distribution use case (i.e., 25 cycles per year), certain levelized metrics are not comparable between this and other use cases presented in Lazard's Levelized Cost of Storage report. The corresponding levelized cost of storage for this case would be \$1,613/MWh - \$3,034/MWh.

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III Energy Storage Value Snapshot Analysis

Revenue Potential for Relevant Use Cases

Numerous potential sources of revenue available to energy storage systems reflect the benefits provided to customers and the grid

• The scope of revenue sources is limited to those captured by existing or soon-to-be commissioned projects. Revenue sources that are not identifiable or without publicly available data are not analyzed

			-	Use Cases ⁽¹⁾								
		Description	Wholesale	Transmission & Distribution	Wholesale (PV + S)	Commercial (Standalone)	Commercial (PV + S)	Residential (PV + S)				
	Demand Response— Wholesale	 Manages high wholesale price or emergency con grid by calling on users to reduce or shift electricit 				\checkmark	\checkmark	\checkmark				
	Energy Arbitrage	 Storage of inexpensive electricity to sell later at h (only evaluated in the context of a wholesale mar 		\checkmark	\checkmark							
Wholesale	Frequency Regulation	 Provides immediate (four-second) power to maint generation-load balance and prevent frequency fl 		\checkmark	\checkmark	\checkmark	\checkmark					
	Resource Adequacy	 Provides capacity to meet generation requiremen loading 	ts at peak 🗸 🗸	\checkmark	\checkmark	\checkmark	\checkmark					
	Spinning/ Non-Spinning Reserves	 Maintains electricity output during unexpected con events (e.g., outages) immediately (spinning rese a short period of time (non-spinning reserve) 		\checkmark	\checkmark	\checkmark	\checkmark					
	Distribution Deferral	 Provides extra capacity to meet projected load gr purpose of delaying, reducing or avoiding distribu investment 		\checkmark								
Utility	Transmission Deferral	 Provides extra capacity to meet projected load gr purpose of delaying, reducing or avoiding transmi investment 		\checkmark								
	Demand Response— Utility	 Allows users to reduce or shift electricity demand to high wholesale pricing or emergency conditions 				\checkmark	\checkmark	\checkmark				
Customer	Bill Management	 Allows reduction of demand charge using battery and the daily storage of electricity for use when the rates are highest 				\checkmark	\checkmark	\checkmark				
Cust	Backup Power	 Provides backup power for use by Residential and Commercial customers during grid outages 	d			\checkmark	\checkmark	\checkmark				

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Represents the universe of potential revenue streams available to the various use cases. Does not necessarily represent revenue streams analyzed in the Value Snapshots.

Value Snapshot Case Studies—Overview

Lazard's Value Snapshots analyze the financial viability of illustrative energy storage systems designed for selected use cases from a returns perspective

The geographic locations, assumed installed and operating costs, and associated revenue streams reflect current energy storage
 market activity

Use Case	U.S. Location	International Location	Owner	Revenue Streams
1 Wholesale	CAISO (SP-15)	Germany	IPP in a competitive wholesale market	Wholesale market settlementLocal capacity resource programs
2 Transmission and Distribution	REC (Virginia)	(1)	 Wires utility in a competitive wholesale market 	 Capital recovery in regulated rates, avoided cost to wires utility and avoided cost incentives
3 Wholesale (PV+Storage)	ERCOT (South Texas)	Australia	IPP in a competitive wholesale market	Wholesale market settlement
4 Commercial & Industrial (Standalone)	CAISO (San Francisco)	Canada	Customer or financier	 Tariff settlement, DR participation, avoided costs to commercial customer, local capacity resource programs and incentives
5 Commercial & Industrial (PV+Storage)	CAISO (San Francisco)	Australia	Customer or financier	 Tariff settlement, DR participation, avoided costs to commercial customer, local capacity resource programs and incentives
6 Residential (PV+Storage)	HECO (Hawaii)	Germany	Customer or financier	 Tariff settlement, avoided costs to residential customer and incentives

Source: Lazard and Roland Berger.

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Note: Actual project returns may vary due to differences in location-specific costs, revenue streams and owner/developer risk preferences.

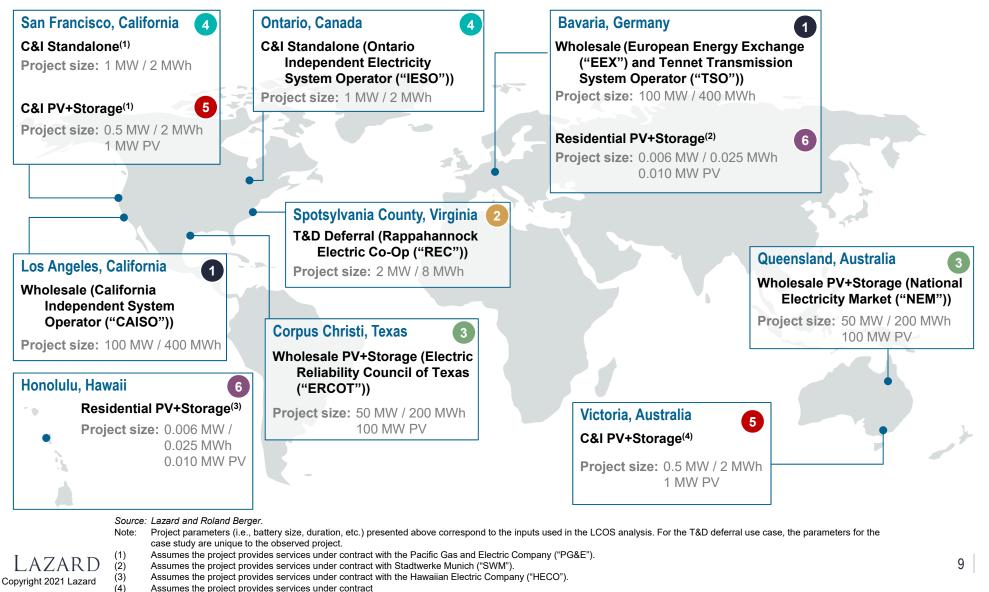
Lazard's Value Snapshot analysis intentionally excluded a Transmission and Distribution use case from its international analysis given the lack of substantive publicly available data for projects deployed for this use case.

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Value Snapshot Case Studies—Overview (cont'd)

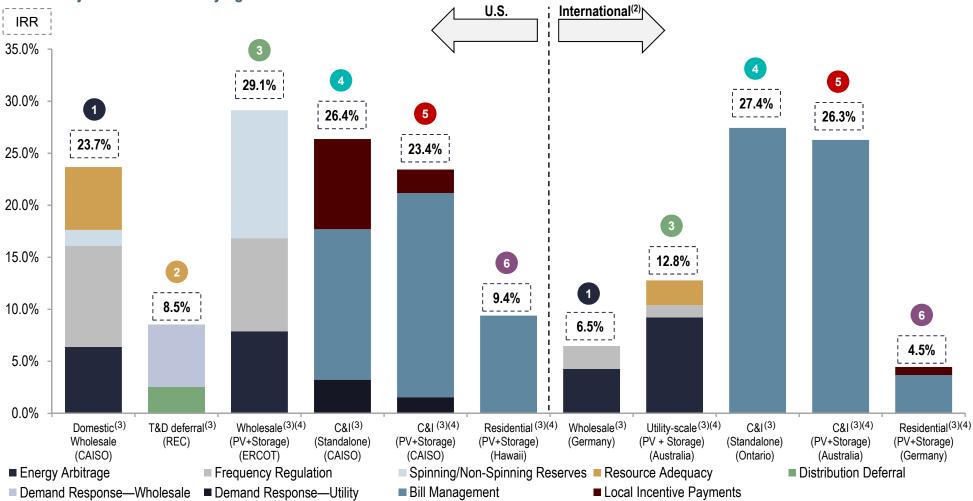
Lazard's Value Snapshots analyze use cases across various global geographies



Assumes the project provides services under contract with AusNet Services.

Value Snapshot Case Studies—Summary Results⁽¹⁾

Project economics evaluated in the Value Snapshot analysis continue to evolve year-over-year as costs improve and available revenue streams adjust to reflect underlying market conditions



Source: Industry interviews, Enovation Analytics, Lazard and Roland Berger.

Note: All figures presented in USD using the following exchange rates: USD 0.69/AUD, USD 0.75/CAD and USD 1.14/EUR

(1) Cost structure representative of the "Average Case" is used in the IRR analysis.

(2) Lazard's Value Snapshot analysis intentionally excluded a Transmission and Distribution use case from its international analysis given the lack of substantive publicly available data for projects deployed for this use case.

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Revenues for Value Snapshots use cases 1 – 3 are based on wholesale prices from the 12 months prior to the onset of the COVID-19 pandemic (i.e., February 2019 – February 2020) in order to normalize the underlying data. Revenues for Value Snapshots use cases 4 – 6 are based on the most recent tariffs, programs and incentives available as of 1H 2021. While it is common to model storage and solar separately, this analysis models both as a combined system for consistency with prior LCOS reports.

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IV Preliminary Views on Long-Duration Storage

Selected Long Duration Storage Technologies—Overview

A variety of long-duration energy storage technologies are in various stages of development and commercial viability

	Flow	Thermal	Mechanical
	Zinc Bromine	Latent Heat	 Gravity Energy Storage
Typical Technologies	• Vanadium	Sensible Heat	 Compressed Air Energy Storage ("CAES")
Description	 Energy storage systems generating electrical energy from chemical reactions, often stored in liquid tanks 	 Solutions storing thermal energy by heating or cooling a storage medium 	 Solutions that store energy as a kinetic, gravitational potential or compression medium
Advantages	Minimal degradation from cyclingModular options available	 Able to leverage mature industrial cryogenic technology base Materials are generally inexpensive 	 Mechanical is proven via established technologies (e.g., pumped hydro)
	 Relatively few safety concerns 	 Power and energy capacity are independently scalable 	Attractive economicsLimited safety concerns
	 Lower energy density and round- trip efficiency 	 Lower energy density vs. competing technologies 	 Lower round-trip efficiency (e.g., CAES systems)
Disadvantages	 Relatively higher O&M costs Lacks adjacent industry to scale production 	 Challenging to increase capacity in modular increments after installation 	 Potential for substantial physical footprint vs. competing technologies
	 High-cost materials (e.g., vanadium) 	Operating performance is sensitive to local climatic conditions	 Generally difficult to modularize
	 Limited track record at larger, commercial scale 	 Limited track record at larger scale 	



Source: Cleantech Group, Desk research, Lazard and Roland Berger.

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Market Activity Observed in Long-Duration Storage

As regional grids achieve higher penetration of renewable energy generation, long-duration storage is well positioned to take advantage of the corresponding increase in the potential for curtailed and low-price generation

Market Context

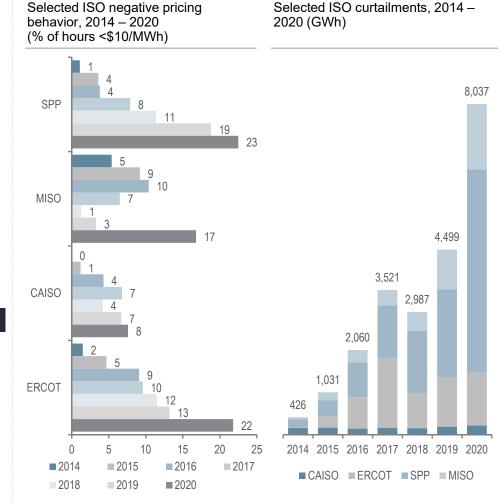
- Lithium-ion technology has proven to be a viable short-duration application, but it is rarely cost-effective past six hours given the cost structure of incremental units of duration
- Increased renewable generation enhances the value of energy arbitrage and reliability services, while climate adaptation drives demand for grid resilience
 - Long-duration storage (i.e., >6 hours) is better suited to addressing both of these grid conditions
- California regulators have stated that the state will need 1 GW of long-duration storage by 2026. Subsequent to this announcement, a coalition of eight community-choice aggregators published a request for proposals seeking 500 MWs of long-duration storage capacity
- Increasing occurrences of low or negative pricing have been observed across various energy markets, corresponding to rising levels of renewable penetration and a greater number of curtailment events
 - Incremental storage, transmission capacity and further interconnection between regional grids can reduce curtailment levels as renewable energy generation continues to increase

Recent Project Activity

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- Flow: SDG&E and Sumitomo Electric have partnered to install a 2 MW / 8 MWh vanadium redox flow battery in California
- **Thermal:** Vantaa Energy intends to deploy 90 GWh of thermal storage in Finland in 2022
- Mechanical: Hydrostor has proposed a 200 MW / 1,600 MWh CAES project in New South Wales, Australia
- **Other:** Form Energy and Great River Energy have partnered to install a 1 MW / 250 MWh aqueous air battery in Minnesota with a target in-service date of 2023

Grid Impacts of Increasing Renewable Energy Penetration



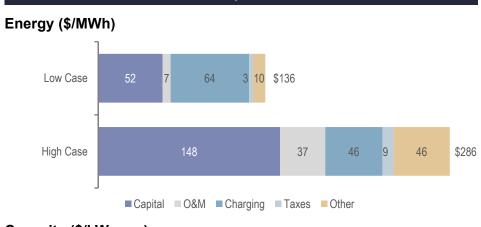
Source: Greentech Media, the California Public Utility Commission, CleanTech Group, Industry interviews, Lazard and Roland Berger.

Illustrative Long-Duration Use Case⁽¹⁾

A levelized cost of storage analysis of an illustrative 100 MW / 1,000 MWh energy storage system yields potentially attractive economics relative to the available alternatives

Use Case Commentary

- Utility companies and corporates are focused on the potential of longduration energy storage technologies to help achieve emissions-reduction targets
- Long-duration storage developers and OEMs are targeting areas with curtailed renewable energy generation, such as those with abundant onshore or offshore wind, which are also transmission constrained
- The mining sector also represents an attractive opportunity where longduration storage may be a cost-effective alternative to diesel-fired reciprocating engines
- Key observations on traditional battery technologies vs. long-duration technologies:
 - Short-duration storage technologies (e.g., Lithium-ion) maintain relatively higher exposure to expensive, volatile commodities as production inputs. Current long-duration technologies do not have such exposure and anticipate limited remediation or recycling costs
 - Long-duration storage technologies typically have lower round-trip efficiencies than short-duration technologies have and, by extension, incur higher charging costs
 - Many long-duration storage technologies are large capital assets that are challenging to size in modular increments, whereas short-duration technologies can be scaled incrementally



Capacity (\$/kW-year)



Key Assumptions

Standalone battery, 20-year project life

LCOS-100 MW / 1,000 MWh Battery

- 1 full battery cycle, 350 cycles/day
- No degradation or augmentation costs
- Average domestic charging costs and associated escalation

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(1)

Source: Industry interviews, EIA, Lazard and Roland Berger.

Energy storage technologies assessed: flow (e.g. Vanadium and Zinc Bromine), thermal and mechanical (i.e., compressed and liquefied air energy storage). Due to the limited deployment of these projects to date, and corresponding lack of operating data, assumptions utilized in this analysis are preliminary.



Appendix



A Supplemental LCOS Analysis Materials

Levelized Cost of Storage Analysis-Methodology

Our Levelized Cost of Storage analysis consists of creating an energy storage model representing an illustrative project for each relevant technology and solving for the \$/MWh figure that results in a levered IRR equal to the assumed cost of equity

Year (1)		0	1	2	3	4	5	20	Key Assumptions ⁽⁵⁾	
Capacity (MW)	(A)		100	100	100	100	100	100	Power Rating (MW)	10
Available Capacity (MW)			110	107	104	102	99	79	Duration (Hours)	
Total Generation ('000 MWh) ⁽²⁾	(B)*		69	68	66	64	62	50	Usable Energy (MWh)	20
Levelized Storage Cost (\$/MWh)	(C)		\$146	\$146	\$146	\$146	\$146	\$146	90% Depth of Discharge Cycles/Day	
Total Revenues	(B) x (C) = (D)*		\$10.1	\$9.9	\$9.6	\$9.4	\$9.1	\$7.3	Operating Days/Year	35
Total Charging Cost ⁽³⁾	(E)		(\$3.2)	(\$3.2)	(\$3.1)	(\$3.1)	(\$3.1)	(\$3.3)	Capital Structure:	
Total O&M ⁽⁴⁾	(F)*		(1.2)	(1.2)	(1.5)	(1.5)	(1.5)	(1.7)	Debt	20.0
Total Operating Costs	(E) + (F) = (G)		(\$4.4)	(\$4.4)	(\$4.6)	(\$4.6)	(\$4.6)	(\$4.9)	Cost of Debt	8.0
				. ,					Equity	80.0
EBITDA	(D) - (G) = (H)		\$5.8	\$5.5	\$5.0	\$4.7	\$4.5	\$2.3	Cost of Equity	12.0
Debt Outstanding - Beginning of Period	(1)		\$6.9	\$6.7	\$6.6	\$6.4	\$6.2	\$0.7	Taxes	
Debt - Interest Expense	(J)		(0.6)	(0.5)	(0.5)	(0.5)	(0.5)	(0.1)	Combined Tax Rate	21.0
Debt - Principal Payment	(K)		(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.7)	Contract Term / Project Life (years)	2
Levelized Debt Service	(J) + (K) = (L)		(0.7)	(0.7)	(0.7)	(0.7)	(0.7)	(0.7)	MACRS Depreciation Schedule	7 Yea
EBITDA	(H)		\$5.8	\$5.5	\$5.0	\$4.7	\$4.5	\$2.3		
Depreciation (7-yr MACRS)	(M)		(4.9)	(8.4)	(6.0)	(4.3)	(3.1)	0.0		
Interest Expense	(J)		(0.6)	(0.5)	(0.5)	(0.5)	(0.5)	(0.1)	Total Initial Installed Cost (\$/MWh) ⁽⁶⁾	\$17
Taxable Income	(H) + (M) + (J) = (N)	_	\$0.3	(\$3.5)	(\$1.6)	(\$0.1)	\$0.9	\$2.3	O&M, Warranty & Augmentation Cost (\$/MWh)	\$2
Tax Benefit (Liability)	(N) x (Tax Rate) = (O)		(\$0.1)	\$0.7	\$0.3	\$0.0	(\$0.2)	(\$0.5)	Charging Cost (\$/kWh)	\$0.04
								. ,	Charging Cost Escalator (%)	1.87
After-Tax Net Equity Cash Flow	(H) + (L) + (O) = (P)	(\$27.6) ⁽⁷⁾	\$5.0	\$5.2	\$4.5	\$4.0	\$3.6	\$1.2	Efficiency (%)	919
IRR For Equity Investors		12.0%	←						Tech	nology-de
Source: Lazard and Roland Berger es Note: Wholesale (100 MW / 200 MV	<i>timates.</i> Vh)—Low LCOS case presente	d for illustrative	purposes o	nlv. Assumpt	ions specific	to Wholesal	e (100 MW /	200 MWh) Low C		•••
* Denotes unit conversion. (1) Assumes half-year convention	,	machadivo		,			- (Level	Ized

(a) Charging Cost reflects (Total Generation) / (Charging Cost); A (Lorging Cost); A (Lorging Cost reflects (Total Generation) / (Charging Cost); A (Lorging Cost); A (Lorg

O&M costs include general O&M (\$1.53/WW, plus relevant Solar PV O&M, escalating annually at 2.5%), augmentation costs (3.0% of ESS equipment) and warranty costs (0.9% of equipment, starting in year 3). Reflects a "key" subset of all assumptions for methodology illustration purposes only. Does not reflect all assumptions.

Reflects a "key" subset of all assumptions for methodology illustration purposes only. Does not reflect all assumptions.
 Initial Installed Cost includes Inverter cost of \$38.05/kW, Module cost of \$115.00/kWh, Balance of System cost of \$32.46/kWh and a 3.6% engineering procurement and construction ("EPC") cost.

Reflects the initial investment made by the project owner.

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Levelized Cost of Storage—Key Assumptions

			Wholesale (Standalone)		Transmission & Distribution	Utility-Scale (PV + Storage)	Commercial & Industrial (Standalone)	Commercial & Industrial (PV + Storage)	Residential (PV + Storage)
	Units	(100 MW / 100 MWh)	(100 MW / 200 MWh)	(100 MW / 400 MWh)	(10 MW / 60 MWh)	(50 MW / 200 MWh)	(1 MW / 2 MWh)	(0.5 MW / 2 MWh)	(0.006 MW / 0.025 MWh)
Power Rating	MW	100	100	100	10	50	1	0.5	0.006
Duration	Hours	1.0	2.0	4.0	6.0	4.0	2.0	4.0	4.2
Usable Energy	MWh	100	200	400	60	200	2	2	0.025
Discharge Cycles/Day	#	1	1	1	1	1	1	1	1
Operating Days/Year	#	350	350	350	25	350	250	350	350
Solar PV Capacity	MW	0.00	0.00	0.00	0.00	100.00	0.00	1.00	0.010
Annual Solar PV Generation	MWh	0	0	0	0	203,670	0	1,708	14
Project Life	Years	20	20	20	20	20	10	20	20
Memo: Annual Used Energy	MWh	31,500	63,000	126,000	1,350	63,000	450	630	8
Memo: Project Used Energy	MWh	630,000	1,260,000	2,520,000	27,000	1,260,000	4,500	12,600	158
Initial Capital Cost—DC	\$/kWh	\$172 – \$250	\$147 – \$239	\$147 – \$231	\$218 – \$305	\$169 – \$460	\$292 – \$346	\$303 - \$628	\$454 – \$780
Initial Capital Cost—AC	\$/kW	\$20 – \$83	\$38 – \$86	\$25 – \$66	\$54 – \$76	\$49 – \$102	\$43 – \$59	\$49 – \$170	\$97 – \$154
EPC Costs	\$	\$1 – \$5	\$1 – \$9	\$2 - \$21	\$1 – \$3	\$2 - \$10	\$0 – \$0	\$0 – \$0	\$0 – \$0
Solar PV Capital Cost	\$/kW	\$0 - \$0	\$0 - \$0	\$0 - \$0	\$0 - \$0	\$775 - \$775	\$0 - \$0	\$2,125 - \$2,125	\$2,675 - \$2,675
Total Initial Installed Cost	\$	\$20 – \$38	\$34 – \$66	\$63 – \$119	\$15 – \$22	\$118 – \$190	\$1 – \$1	\$3 – \$4	\$0 - \$0
O&M	\$/kWh	\$1.7 - \$3.8	\$1.5 - \$3.8	\$1.5 - \$2.5	\$0.6 - \$1.3	\$1.1 - \$18.0	\$19.2 - \$2.7	\$0.4 - \$19.4	\$0.0 - \$0.0
Extended Warranty Start	Year	3	3	3	3	3	3	3	3
Warranty Expense % of Capital Costs	%	0.90% - 0.90%	0.90% - 0.80%	0.90% - 1.24%	0.67% - 0.90%	1.00% - 1.73%	1.40% - 1.10%	0.10% - 1.45%	0.00% - 0.00%
Investment Tax Credit	%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Production Tax Credit	\$/MWh	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Charging Cost	\$/MWh	\$39	\$42	\$35	\$30	\$0	\$107	\$0	\$0
Charging Cost Escalator	%	1.87%	1.87%	1.87%	1.87%	0.00%	2.15%	0.00%	0.00%
Efficiency of Storage Technology	%	91% - 84%	91% - 84%	91% - 84%	83% - 83%	85% – 77%	78% – 94%	85% – 78%	95% – 89%
Levelized Cost of Storage	\$/MWh	\$160 - \$279	\$146 - \$257	\$131 - \$232	\$1,613 - \$3,034	\$85 - \$158	\$442 - \$643	\$235 - \$335	\$416 - \$621

Source: Lazard and Roland Berger estimates.



Note: Assumed capital structure of 80% equity (with a 12% cost of equity) and 20% debt (with an 8% cost of debt). Capital cost units are the total investment divided by the storage equipment's energy capacity (kWh rating) and inverter rating (kW rating). Lithium cases were modeled using 90% depth of discharge, Flow cases were modeled using 100% depth of discharge. Wholesale and Transmission & Distribution charging costs use the EIA's "2020 Wholesale Price \$/MWh– Wtd Avg Low" price estimate of \$30.08/MWh. Escalation is derived from the EIA's "AEO 2021 Energy Source–Electric Price Forecast (20-year CAGR)" and ranges from 1.87% – 2.15% by use case. Storage systems paired with Solar PV do not charge from the grid.

15

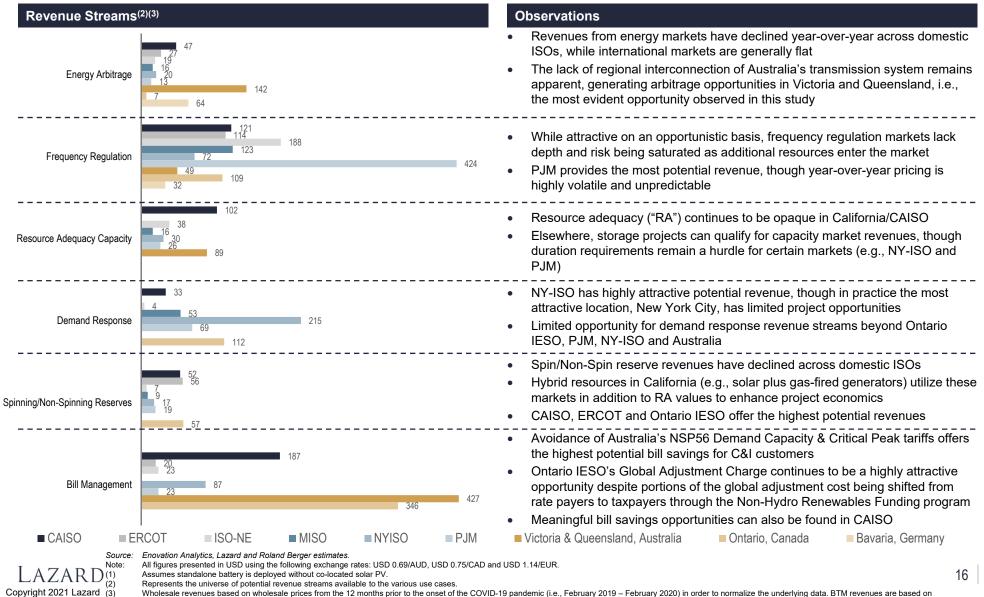


B Value Snapshot Case Studies

Overview of Energy Storage Revenue Streams

(\$/kW-year, unless otherwise noted)

To show indicative revenue potential by use case and market, Lazard's LCOS analyzes front-of-the-meter ("FTM") and behind-the-meter ("BTM") revenue streams from currently deployed energy storage systems⁽¹⁾



the most recent tariffs, programs and incentives available as of 1H 2021. This study has been prepared by Lazard for gene

set of the COVID-19 pandemic (i.e., February 2019 – February 2020) in order to normalize the underlying data. BTM revenues are based on This study has been prepared by Lazard for general informational purposes only, and it is not intended to be, and should not be construed as, financial or

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1 Value Snapshot Case Studies—U.S.

Wholesale, CAISO (Los Angeles, California)

100 MW / 400 MWh Standalone Battery

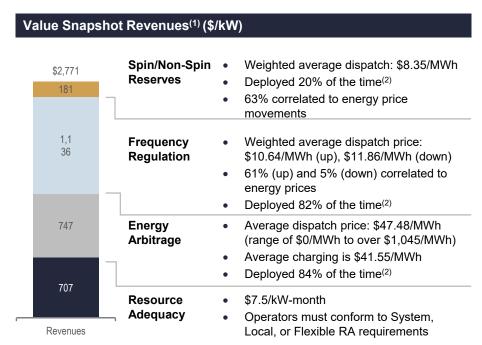
Project IRR: 23.7%⁽¹⁾

Use Case Commentary

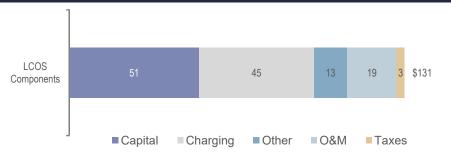
- Additional use case context:
 - The project utilizes an AC-coupled battery at a node in the Los Angeles basin
 - Charging costs average \$34.58/MWh
 - To generate energy arbitrage revenue, the battery typically charges during the day and discharges during peak load periods in the evening
 - The project is developed to provide capacity under local RA parameters
 - To maximize additional revenues, the battery optimally allocates itself to Frequency Regulation and Spin/Non-Spin based on current market pricing
 - To avoid distortions from COVID-19 related impacts, wholesale prices from the 12 months prior to the onset of the pandemic (February 2019 – February 2020) are used as the baseline for modeling energy prices over the forecast period

Market observations:

- Resource adequacy contract pricing has increased year-on-year, with most market participants reporting pricing in the range of \$5 – \$10/kW-month
- Given that the California energy storage development pipeline is greater than the size of the CAISO regulation market, prices for frequency regulation are not expected to continue to increase, and may decline beyond 2025
- Idiosyncratic factors (e.g., Public Safety Power Shutoff events ("PSPS"), wildfires and heat stress) drive volatility in market conditions and support the need for resilience-based procurement models
 - Increasing penetration of renewables will continue to drive curtailment and periods of negative energy pricing



Levelized Cost of Storage⁽¹⁾ (\$/MWh)



Source: Industry interviews, Enovation Analytics, Lazard and Roland Berger. Note: Analysis assumes the project will reach commercial operation in 2022.

ARD (1) NPV o

Copyright 2021 Lazard (2) Average amour simultaneously.

NPV of lifetime project revenues is presented. Cost structure representative of the "Average Case" is used in the IRR analysis and shown in the LCOS summary. Average amount of time deployed in given revenue stream during 2022. Sum of time deployed may exceed 100% because battery can participate in multiple revenue streams 17

T&D Deferral, REC (Spotsylvania County, Virginia)

2 MW / 8 MWh Standalone Battery

Project IRR: 8.5%⁽¹⁾

Use Case Commentary

- Additional use case context:
 - The T&D deferral Value Snapshot is based on estimates of actual cost and revenue data for a project developed by REC that is expected to reach commercial operations in 2022
 - The storage asset allows REC to defer investments to upgrade components of the distribution grid that are nearing thermal limits
 - The battery cycles an average of seven times per month, and is dispatched during "demand control periods" to avoid distribution system overload, as well as to decrease wholesale power procurement costs by reducing peak load
 - Charging costs are based on REC's contracted wholesale energy procurement rate; however, battery discharge offsets these costs causing the effective charging costs to be the round-trip efficiency losses from cycling the battery

Market observations:

- Economics continue to limit deployment of pure T&D deferral use cases, even in regions with "non-wires alternative" planning regimes
- Current FERC regulations generally prevent utility ownership of generation resources in deregulated jurisdictions, making these resources ineligible to participate in energy and capacity markets. As a result, few utilities are currently investing in storage for T&D deferral cases
- Other use case assumptions:

(2)

- REC is using Rural Utility Service ("RUS") financing for the project, which carries an annual interest rate of ~2.6%
- Battery installation and substation work was performed by REC personnel; project economics assume no additional labor costs are incurred

Value Snapshot Revenues⁽¹⁾⁽²⁾ (\$/kW) \$960 Demand REC is assessed capacity charges as a load-serving entity in the PJM Response— Wholesale market, which are a function of coincident load during monthly and annual system peaks. The battery is dispatched to reduce coincident peak load. Annual savings are estimated by REC to be ~\$211,000 832 The storage asset allows REC to Distribution Deferral defer investments in two separate substation upgrades for three years 128

Revenues

Levelized Cost of Storage⁽¹⁾⁽²⁾ (\$/MWh) LCOS Components 1,066 43 251 188 65 \$1,613 Capital Charging Other O&M Taxes

18

Source: REC, EIA, Industry interviews, Lazard and Roland Berger.

Lazard's Levelized Cost of Storage report.

LAZARD Copyright 2021 Lazard Note: LCOS data reflect project parameters corresponding to the illustrative T&D deferral use case as outlined on the page titled "Energy Storage Use Cases—Illustrative Operational Parameters", (i.e., a standalone 10 MW / 60 MWh battery). Operational parameters used in the Value Snapshots analysis correspond to parameters unique to the project analyzed.

NPV of lifetime project revenues is presented. Cost structure representative of the "Average Case" is used in the IRR analysis and shown in the LCOS summary. Given the operational parameters for the Transmission and Distribution use case (i.e., 25 cycles per year), levelized metrics are not comparable between this and other use cases presented in

Wholesale PV+Storage, ERCOT (Corpus Christi, Texas)

50 MW / 200 MWh Battery, paired with 100 MW of Solar PV

Project IRR: 29.1%⁽¹⁾

Use Case Commentary

- Additional use case context:
 - The project utilizes an AC-coupled battery at a node in South Texas. The AC-coupled system was chosen to demonstrate the advantage of higher PV system efficiency and avoid inverter capacity limitations
 - The battery charges exclusively from the coupled solar PV system for the first five years of operation in order to maintain eligibility for the Federal Solar Investment Tax Credit ("ITC")
- Market observations:
 - To avoid distortions from COVID-19 related impacts, wholesale prices from the 12 months prior to the onset of the pandemic (February 2019 – February 2020) are used as the baseline for modeling energy prices over the forecast period
 - ERCOT wholesale energy prices were higher than historical averages in 2019, averaging \$38/MWh for the calendar year
 - This is primarily due to the volatility caused by extreme heat waves. In August 2019, day-ahead pricing averaged \$127/MWh. Ancillary services prices were also elevated during these events
 - For comparison, annual average energy prices were \$34/MWh and \$25/MWh in 2018 and 2020, respectively
 - Recent trends in build sizes:
 - Larger energy storage systems are typically coupled with solar PV systems (>2 hours duration, >50 MWh) vs. on a standalone basis
 - Smaller, 1 2 hour batteries are being deployed on a standalone basis, in part to address curtailment and negative pricing. Projects <10 MW are exempt from most interconnection requirements

Source: Industry interviews, Enovation Analytics, Lazard and Roland Berger.

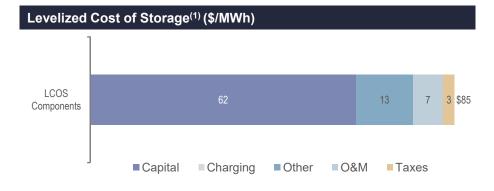
Note: Analysis assumes the project will reach commercial operation in 2022.



NPV of lifetime project revenues is presented. Cost structure representative of the "Average Case" is used in the IRR analysis and shown in the LCOS summary.
 Average amount of time deployed in given revenue stream during 2021. Sum of time deployed may exceed 100% because battery can participate in multiple revenue streams simultaneously.

Value Sn	apshot Revenues ⁽¹⁾ (\$/	/kW)
\$4,693	1	
1,435	Frequency Regulation ("FR")	 Weighted average dispatch price: \$58.50 (up), \$18.24 (down)/MWh Deployed 18% of the time⁽²⁾
1,270	Energy Arbitrage	 Median dispatch price: \$27.22/MWh (range of \$5 to over \$2,000/MWh) Deployed 49% of the time⁽²⁾
1,988	Spin/Non-Spin Reserves	 Weighted average dispatch price: \$36.70/MWh Deployed 69% of the time⁽²⁾ 91% correlated to energy price movements

Revenues



19

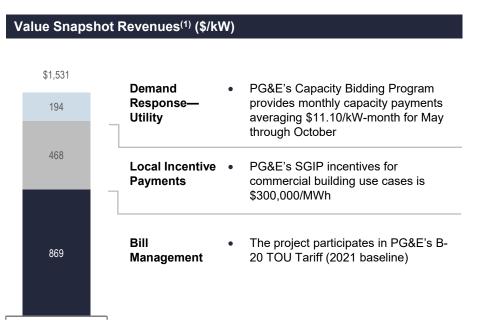
C&I Standalone, PG&E (San Francisco, California)

1 MW / 2 MWh Battery

Project IRR: 26.4%⁽¹⁾

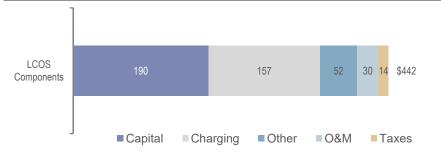
Use Case Commentary

- Additional use case context:
 - The project utilizes a standalone AC-coupled battery and the load shape of a large office building in San Francisco
 - Charging costs are an average of \$102.33/MWh, reflecting the local TOU rate
 - The project is developed to reduce energy load during periods of peak pricing, in turn reducing the end-customer's electricity costs
 - Additional revenues are captured through participation in Demand Response and local Self-Generation Incentive Program ("SGIP") programs
- Market observations:
 - PG&E has migrated C&I customers from the legacy E-20 tariff to the B-20 tariff. Key differences include lower demand charges and greater disparity between peak and off-peak energy prices
 - SGIP funding: as of July 2021, ~80% of funds allocated to large-scale projects in PG&E Step 4 (i.e., ~\$40 million) remain available
 - Developers continue to move away from bill management use cases and towards backup power applications given the increased focus on grid reliability and resiliency
 - Developers are also preparing for potentially challenged economics for C&I batteries when incentive programs expire
 - C&I projects have substantially higher relative permitting and installation costs vs. utility-scale projects
 - Many OEMs are developing "turnkey crate" solutions whereby a fully integrated storage system is delivered to the site, reducing overall EPC costs



Revenues

Levelized Cost of Storage⁽¹⁾ (\$/MWh)



LAZARD Copyright 2021 Lazard

Source: Industry interviews, PG&E, Enovation Analytics, Lazard and Roland Berger.
Note: Analysis assumes the project will reach commercial operation in 2022.
(1) NPV of lifetime project revenues is presented. Cost structure representative of the "Average Case" is used in the IRR analysis and shown in the LCOS summary.

C&I PV+Storage, PG&E (San Francisco, California)

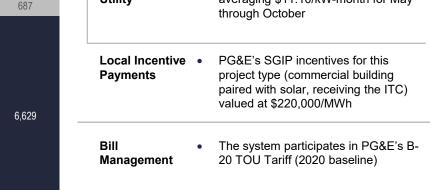
0.5 MW / 2 MWh Battery, paired with 1 MW of Solar PV

Project IRR: 23.4%⁽¹⁾

Use Case Commentary

- Additional use case context:
 - The project utilizes a DC-coupled battery and the load shape of a large office building in San Francisco. DC coupling was chosen to demonstrate the advantage of relatively higher overall system efficiency, capture of solar clipping and simplicity of installation
 - The battery charges exclusively from the coupled solar PV system for the first five years of operation in order to maintain eligibility for the ITC
 - The project is developed to reduce energy load during periods of peak pricing, in turn reducing the end-customer's electricity costs
 - Additional revenues are captured through participation in Demand Response and local Self-Generation Incentive Program ("SGIP") programs
- Market observations:
 - PG&E has migrated C&I customers from the legacy E-20 tariff to the B-20 tariff. Key differences are a lower demand charge, but greater disparity between peak and off-peak energy rates
 - SGIP funding: as of July 2021, ~80% of funds allocated to large-scale projects in PG&E Step 4 (i.e., ~\$40 million) remain available
 - Developers continue to move away from bill management use cases and towards backup power applications given the increased focus on grid reliability and resiliency
 - Developers are also preparing for potentially challenged economics for C&I batteries when incentive programs expire
 - The value of selling excess solar generation back to the grid (i.e., net metering) continues to decline as abundant solar generation during hours of peak solar production depress energy prices
 - California's aggressive Zero Net Energy ("ZNE") Plan will require all new commercial buildings to be ZNE by 2030 and 50% of existing commercial buildings to be retrofitted to comply with the ZNE Plan by 2030, supporting aggressive growth in this use case over the next decade

\$7,839 Demand • PG&E's Capacity Bidding Program provides monthly capacity payments averaging \$11.10/kW-month for May



Revenues

Levelized Cost of Storage⁽¹⁾ (\$/MWh)

LAZARD Copyright 2021 Lazard

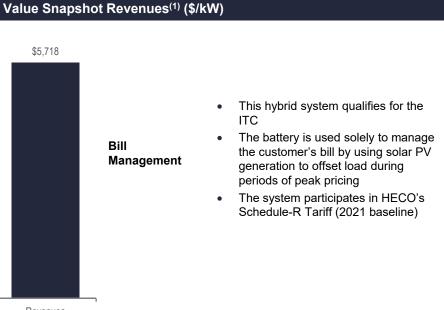
Residential PV+Storage, HECO (Honolulu, Hawaii)

0.006 MW / 0.025 MWh battery, paired with 0.010 MW of Solar PV

Project IRR: 9.4%⁽¹⁾

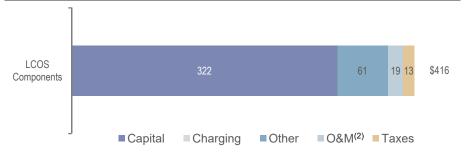
Use Case Commentary

- Additional use case context:
 - The project utilizes an AC-coupled battery and the load shape of a large single-family residence in Hawaii
 - The battery charges exclusively from the coupled solar PV system for the first five years of operation in order to maintain eligibility for the ITC
 - The project is developed to reduce energy load during periods of peak pricing, in turn reducing the end-customer's electricity costs
 - Battery storage trends in Hawaii:
 - Historically, due to the island's energy constraints, much of Hawaii's electricity was produced using oil-fired generation resources.
 Transportation costs and underlying oil price volatility led to expensive and volatile electricity prices
 - The initial Net Energy Metering ("NEM") programs were advantageous to retail customers, with HECO providing bill credits at the avoided retail rate for electricity produced in excess of the customer's energy load
 - In 2015, NEM rules were changed so new tariffs reflected customer credits based on avoided variable generation costs for HECO, rather than the retail rate, significantly reducing attractiveness of standalone PV
- Market observations:
 - Hawaii has high electricity tariffs, favorable insolation, growing renewable energy penetration and an active Public Utility Commission
 - Grid instability, weather and volcanic risks cause reliability and resilience issues for HECO, further incentivizing residential energy storage
 - The state has among the most aggressive renewable energy targets, coupled with a supportive policy framework



Revenues

Levelized Cost of Storage⁽¹⁾ (\$/MWh)



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(2)

Source: Industry interviews, HECO, Enovation Analytics, Lazard and Roland Berger.
 Note: Analysis assumes the project will reach commercial operation in 2022.
 NPV of lifetime project revenues is presented. Cost structure representative of the second s

NPV of lifetime project revenues is presented. Cost structure representative of the "Average Case" is used in the IRR analysis and shown in the LCOS summary. Lifetime Q&M for this use case is included in the initial capital investment. 22



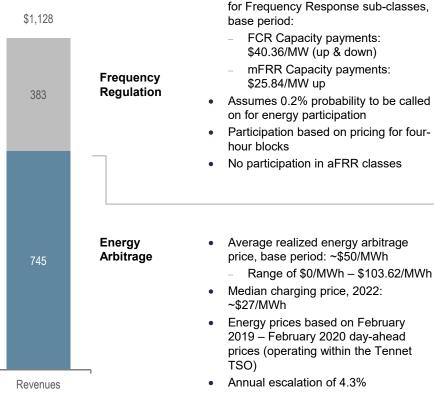
2 Value Snapshot Case Studies—International

International Value Snapshots

Wholesale, Germany (Bavaria)⁽¹⁾ (\$/kW)

100 MW / 400 MWh standalone battery

Project IRR: 6.5%⁽¹⁾ •



٠

Average estimated realized unit prices

Wholesale PV+Storage, Australia (Queensland)⁽¹⁾ (\$/kW)

50 MW / 200 MWh battery paired with 100 MW of Solar PV

Project IRR: 12.8%⁽¹⁾

\$3,544 326	Frequency Regulation	 Average estimated unit price, 2022: \$24.46/MW (up & down) Participation in Queensland ancillary services (i.e., Lower & Raise, 6 seconds, 5 minute, Regulation, Restart, Reactive)
659	Resource Adequacy	 Average estimated unit price, 2022: \$154,200/MW-year
		 Benchmark Reserve Capacity Price from Australia Energy Market Operator Annual escalation of -0.9%
2,559	Energy Arbitrage	 Median energy arbitrage price, 2022: ~57/MWh Range of \$0/MWh – \$4,790/MWh Energy prices based on 2019 and 2020 Queensland region Assumes the battery is discharged during the top four hours of each day Annual escalation of 4.7%
Revenues	7	

Source: Industry interviews, IESO, AER, Energy Storage World Forum, German Association of Energy and Water Industries, Lazard and Roland Berger.

Note: International and domestic use cases utilize the same capital cost assumptions. All figures presented in USD using the following exchange rates: USD 0.69/AUD, USD 0.75/CAD and USD 1.14/EUR. Base period is assumed to be from February 1, 2019 through January 31, 2020 to avoid distortions from the impact of the COVID-19 pandemic on wholesale power markets.

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(1)

NPV of lifetime project revenues is presented. Cost structure representative of the "Average Case" is used in the IRR analysis.

\$2.307

International Value Snapshots (cont'd)

5

C&I Standalone, Canada (Ontario) (\$/kW)

1 MW / 2 MWh standalone battery

Project IRR: 27.4%⁽¹⁾

Bill Management

- Participates exclusively in Ontario IESO's Global Adjustment savings
 - Requires exact timing and participation in 5 – 10 peak load days per year
 - Savings are generated by avoiding peak global adjustment charges
 - Accurately predicting peak hours requires specialized analytics services, priced at \$25,000 per year
 - Value Snapshot methodology assumes participation in five peak load days per year
 - Ontario/IESO "Class A" GAC
 - The Ontario government has reduced total grid access charges by ~20% by shifting certain costs into the tax base and is planning to reduce total system costs moving forward

Revenues

C&I PV+Storage, Australia (Victoria) (\$/kW)

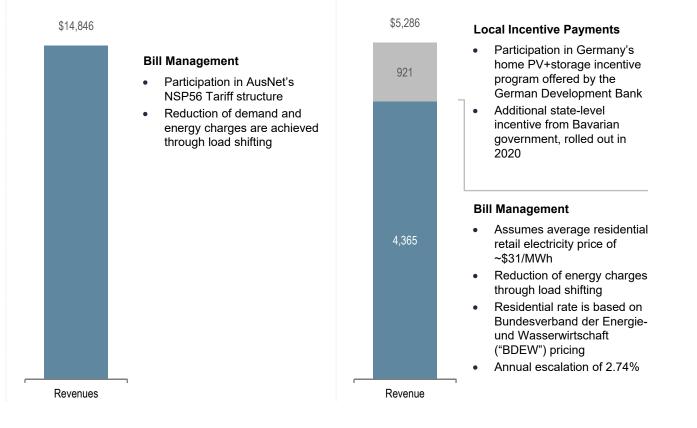
0.5~MW / 2 MWh battery paired with 1 MW of Solar PV

• Project IRR: 26.3%⁽¹⁾

Residential PV+Storage, Germany (Bavaria) (\$/kW)

$0.006\ \text{MW}$ / $0.025\ \text{MWh}$ battery paired with 0.1 MW of Solar PV

Project IRR: 4.5%⁽¹⁾



6



(1)

- Source: Industry interviews, IESO, AER, Energy Storage World Forum, German Association of Energy and Water Industries, Lazard and Roland Berger.
- Note: International and domestic use cases utilize the same capital cost assumptions. All figures presented in USD using the following exchange rates: USD 0.69/AUD, USD 0.75/CAD and USD 1.14/EUR.

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