Perspectives on Energy Storage at AES

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About The AES Corporation

Mission: Improving lives through safe, reliable and sustainable energy solutions.

Diversity Across Markets, Fuels & Technology

Income Sources
(2014 adjusted PTC)

- Asia: 8%
- US: 24%
- EMEA: 19%
- MCAC: 18%
- Brazil: 12%
- Andes: 19%

By Fuel Type

- Gas: 33%
- Coal: 38%
- Oil, Diesel, Pet Coke: 5%
- Renewables: 24%

Dependable Provider to Utilities and Power Systems

- 18 countries
- 35,000 MW in operation
- 8 utility companies
- 10 million customers
- $39 billion assets
- $17 billion revenues
- 18,500 global workforce
- World leader in battery-based energy storage

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Batteries on the grid

Modular, scalable arrays with high availability from current technology

Cells → Vehicle Sub-Modules → Trays → Racks → Grid Storage Arrays

40 MW Resource - 800,000 Cells
More than 200MW of energy storage resource
A fleet of cost competitive, reliable storage resources

Customers:  
- pjm
- bhp billiton
- SQM
- KGHM POLSKA MIEDZ S.A.
- Teck

- 24 MW Los Andes  
  2009

- 40 MW Angamos  
  2012

- AES Carina @ IPL  
  World’s first grid Lithium-ion battery  
  Feb 2008

- 64 MW Laurel Mtn.  
  2011

- 40 MW Tait  
  Sep 2013

- 40 MW Cochrane  
  2015 Online Date

- 20 MW Warrior Run  
  2015 Online Date

- 20 MW Kilroot  
  N. Ireland  
  2015 Online Date

- Western Europe  
  2015 Online Date
AES Brings Storage Offering to California
Contracted 200 MW resource in Southern California – 2020 COD

Project Description:
• 2x50 MW advanced battery array
• Provides local capacity reliability
• 4 hour duration
• 24x7 power resource
• No emission or water
• Tolling PPA

100 MW Interconnection (rendered)
200 MW of flexibility (discharge + charge)