MOVE THE WORLD FORW>RD MITSUBISHI HEAVY INDUSTRIES GROUP

Enabling an Accelerated and Affordable Clean Hydrogen Future

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OUR MISSION

We will provide power generation and energy storage solutions to our customers, empowering them to affordably and reliably combat climate change and advance human prosperity.







> Hydrogen Ready Gas Turbines



PV Solar







Lithium Ion Batteries



> Hydrogen Energy Storage





CALIFORNIA WIND AND SOLAR CURTAILMENTS HIT RECORD HIGH IN MARCH 2021



Source: CAISO Data compiled Sep 2021

http://www.caiso.com/informed/Pages/ManagingOversupply.aspx



CALIFORNIA SURPLUS AND DEFICIT PATTERNS UNDER A 100% RENEWABLE ENERGY SCENARIO



Seasonal surplus and deficits signal need for longduration energy storage "beyond the duck curve"



Comparison of Hydaptive[™] (Green Hydrogen Energy Storage Systems) and Battery Energy Storage Systems (BESS)



BESS and Hydaptive work in concert to support more reliable and cost effective integration of renewables



Intermountain Power Project (IPP):

> World's First Combined Cycle Designed for Green H2

Commercial Operation 2025 on 30% Green H2

> 100% Green H2 Operation no later than 2045

Advanced Clean Energy Storage Project

> World's largest renewable storage project ... 150,000 MWh

Safe, reliable, and cost effective storage of Green Hydrogen

Supports "hard to electrify" heavy transport & industrial verticals

Two complementary efforts leading a 'Change in Power'









ADVANCED TECHNOLOGY



Mitsubishi Power J-Series

Output435MW (60Hz)CCGT Efficiency~65%Reliability99.5%Units in Commercial Operation45

Modifications are only required on the combustion components of the GT



H₂ GAS TURBINE





