

“Electric Green” Solution

Executive Brief

An integrated solution for automated provisioning



Technology analyst IDC reports that energy costs consume half of every dollar spent on computer hardware, a number that's expected to increase 54 percent, to 71 cents, over the next four years. ①

IBM, who currently runs the world's largest commercial technology infrastructure, with more than eight million square feet of data centers in six continents, is battle testing a new initiative called Project Big Green. Using new approaches, IBM expects to double the computing capacity of its data centers within the next three years without increasing power consumption or its carbon footprint. Based on greenhouse gas production, the size of a carbon footprint is determined by the amount of carbon dioxide that comes from human activities. Compared to doubling the size of its data centers by building out new space, IBM expects this will help save more than five billion kilowatt hours of energy per year.

The IBM High Performance on Demand Solutions (HiPODS) team has developed an “Electric Green” Solution that uses automation provisioning software from HiPODS Request Driven Provisioning (RDP) to reduce power consumption in your data center. This solution can reduce your server power consumption up to 80% by automatically putting the servers on standby mode when they are not needed. If this solution were to be deployed in all the estimated U.S. data centers, the country could save as much as 5.4 billion kilowatt hours per year, enough electricity to heat 370,000 homes for a winter.!

HiPODS experts can assist in identifying power saving technologies that can help run your data centers more efficiently and at lower cost. For more information please contact us at hipods@us.ibm.com or visit our website at <http://www.ibm.com/developerworks/websphere/zones/hipods/>

① Source: IDC, *Worldwide Server Power and Cooling Expense 2006–2010 Forecast*, Doc #203598, September 2006



About HiPODS

For seven years, the IBM High Performance On Demand Solutions (HiPODS) team has been engaging with worldwide customers seeking solutions to IT infrastructure challenges. Our success with these projects derives from a high degree of innovation, fast turnaround, and containment of technical risk due to the new technology components in the solutions. HiPODS ensures innovative solutions and approaches by collaborating closely with customers and subject matter experts from IBM research, hardware, software, and services groups. These teams leverage the state-of-the-art HiPODS hardware and software labs in eight global locations developing, testing, and ensuring deployment readiness of the solutions.

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