

## Go Green with HCL Servers

“Integrating the color of life with the Technology that drives business”

### HCL taking responsibility for Green future:

HCL Green server's portfolio focus on delivering high performance with optimized power consumption for dynamic business needs. The new generation servers cater to following climate savers initiatives:

- Adoption of Power management policy using Intel Node manager Technology.
- 80+% efficient power supply units.
- RoHS compliant modules for reduction in global CO<sub>2</sub> emissions
- Optimized power consumption for cooling.



• IGL 2700BC • IGL 2700HC  
• IGL2700MF • IGL2700UR



### Experience ROI benefits with new generation HCL Green Servers

The rising cost of kilowatt of electricity has compounded the need of new generation server systems to optimize TCO. The Nehalem based HCL green servers provides the benefit of

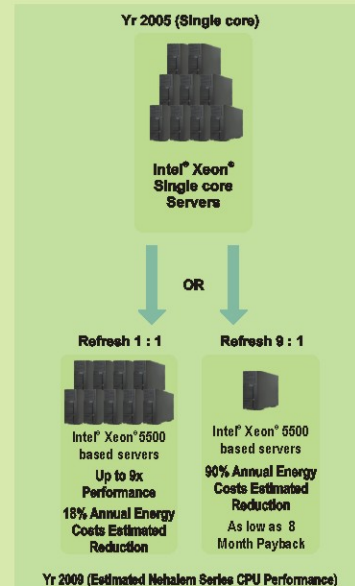
- Consolidation by replacing old with new for smaller footprint, less electricity bills and higher efficiency.
- Around 9 times the performance compared to earlier generation single core servers.
- Over a tenure of few years, the cost of powering/cooling earlier generation server exceeds the cost of purchasing new Nehalem based HCL servers.

*“Reap the ROI benefit of a slashed energy bills and the rewards of healthier & comfortable green environment with smaller footprint of virtualized HCL server platform.”*

### Green compute productivity for SMBs with HCL Modular Server DCIB v3.0

Invest smart, stay ahead, relinquish power consuming IT infra and adopt consolidated platform of computing servers/shared storage/redundant cooling /power modules & Ethernet switch made

available in HCL DCIB server. It features all essential datacenter resources with unprecedented storage capacity of around 16 TB using an external smart storage unit.



- RAID HBA w/ Battery Backup
- Rack Server
- Rack Server
- Rack Server
- Rack Server
- HDD
- GbE Switch

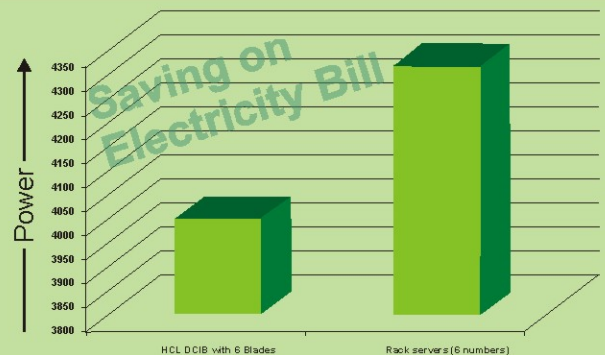
Capability <  
Cost >  
Power Consumption >

#### HCL Green Modular Server- DCIB v3.0



Ease of Management/ maintenance and operation in consolidated infrastructure

- Additional capabilities included:
1. Virtual Presence GUI
  2. Ease of Use Mgmt. Features
  3. Remote OOB mgmt.
  4. Virtualized Access Storage
  5. Shared storage
  6. Server fail over



**“HCL Green Servers are engineered to take up environmental responsibilities and are powered with innovation for enhanced productivity”**

# Making world greener bit by bit: Green Datacenters Tips for enhanced ROI

1. Refresh the aging servers with powerful HCL green new generation Nehalem servers
2. Efficient power management & cooling system
3. Implement HCL Green Modular Servers (DCIB) for improved TCO
4. Practice Virtualization and Reconsider redundancy
5. Develop Nature friendly ecosystem- Use non-toxic insulation; create ventilators/windows and place drought tolerant plants.
6. Consider Alternative power sources-Solar panels, Wind energy.

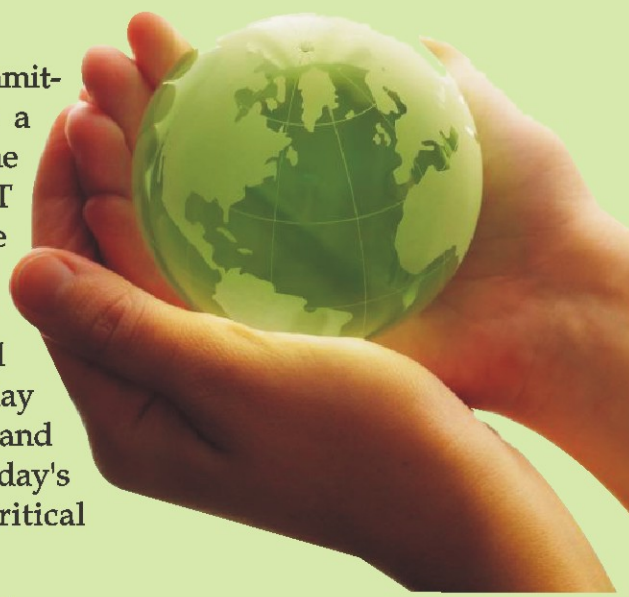
## Resource Power management with HCL green serves powered by Intel® Node manager technology

Virtualization has helped reduce power consumption by eliminating under-utilized servers, but virtualization alone cannot solve the increasingly large power demands of data centers. Mission critical applications operating on high

end HCL servers powered with Intel Nehalem CPU features Intelligent Power Management technologies for dynamic power monitoring and adjustments which controls the operating frequency of processor on the fly there by providing enhance ROI benefits.

## Adopting and spreading Green HPC best practices across nation

HCL continues to work for its commitment to Greener Research. As a regular practice, HCL this time conducted HPC Workshops at IIT Guwahati and IIT Roorkee. The consortium witnessed the presence of decision makers & senior professors from IIT/CSIR labs and various R&D labs. The one day workshop focused on the need and significance of Green servers in today's compute intensive mission critical research applications.



**HCL Green Consultancy Room:** Companies achieve best results by integrating power, cooling, computing mechanism empowered with advanced technologies such as virtualization and new generation efficient HCL servers. HCL Consultant helps you estimate ROI involved in building green datacenters with HCL new generation servers



## Ushering new generation of entry level green servers HCL IGL 1700 GR

HCL introduced cost effective server system for entry level requirements. The Intel® Quad core



Xeon 3400 series CPU supported server is engineered to meet the cost effective Green IT best practices. Easy setup and manageability features of HCL IGL 1700GR servers make it suitable for Mail /Web, Departmental datacenter, file/print/networking requirements.



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