

Primer: A roadmap to energy saving design for tools

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Many Semiconductor tool suppliers are focused on their next generation tools and the process requirements of those tools. For many tool suppliers very simple improvements in their tool utility requirements can result in significant savings to the semiconductor fab overall energy requirements. This paper will present some very basic yet fundamental solution for tool suppliers that can result in significant savings to the fab owner. Design changes for process exhaust, heat dissipation, cooling water, and power will be highlighted. Sample cases as well as actual case histories will be presented.