

EPRI's' Integrated Grid: Phases II and III

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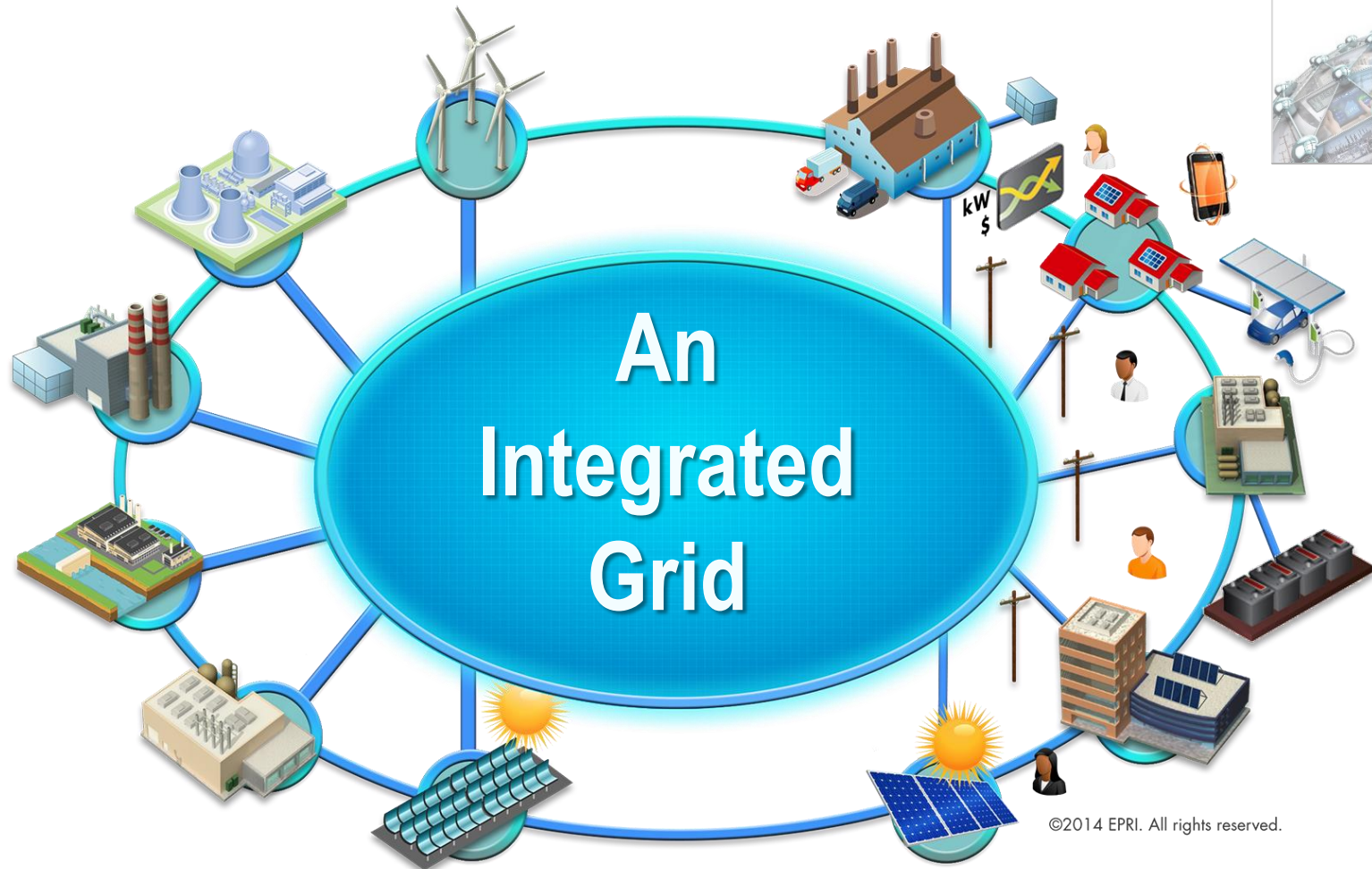
Integrated Grid Project *Benefit – Cost Framework and Pilot Projects*



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February 16, 2015

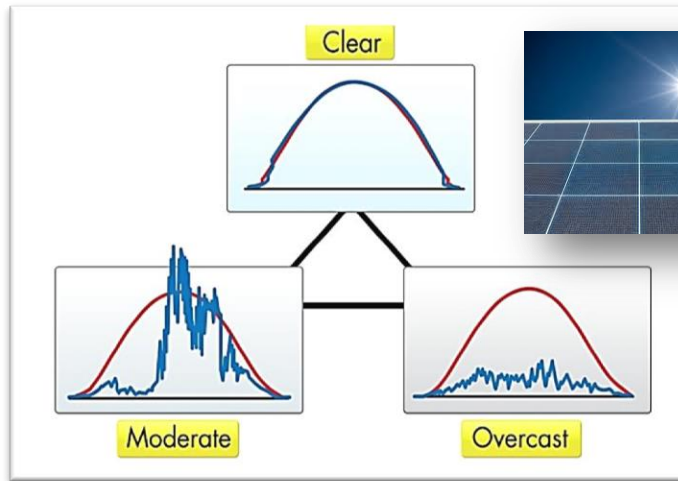
The *Evolving* Power System



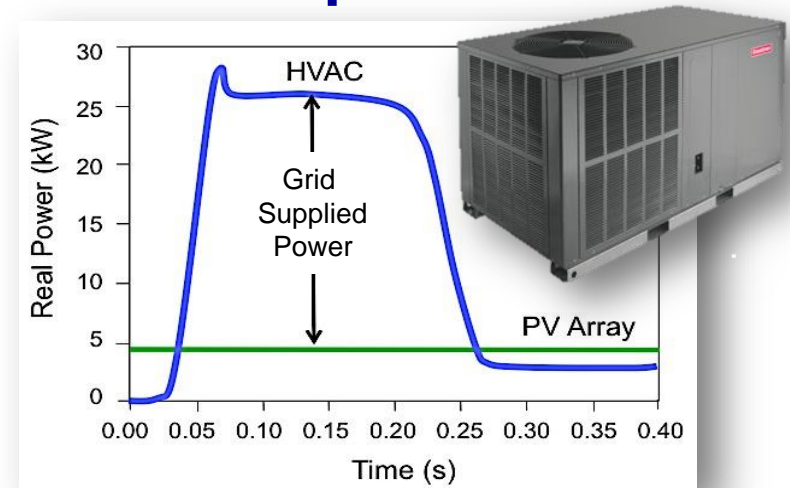
Dynamic Power System Requires an End-to-End *Integrated Approach*

The Challenge – A Few Examples

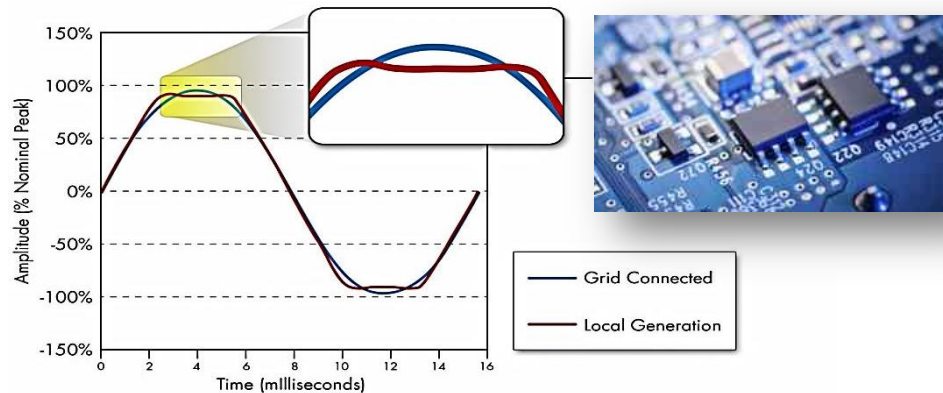
24 by 7 Electricity



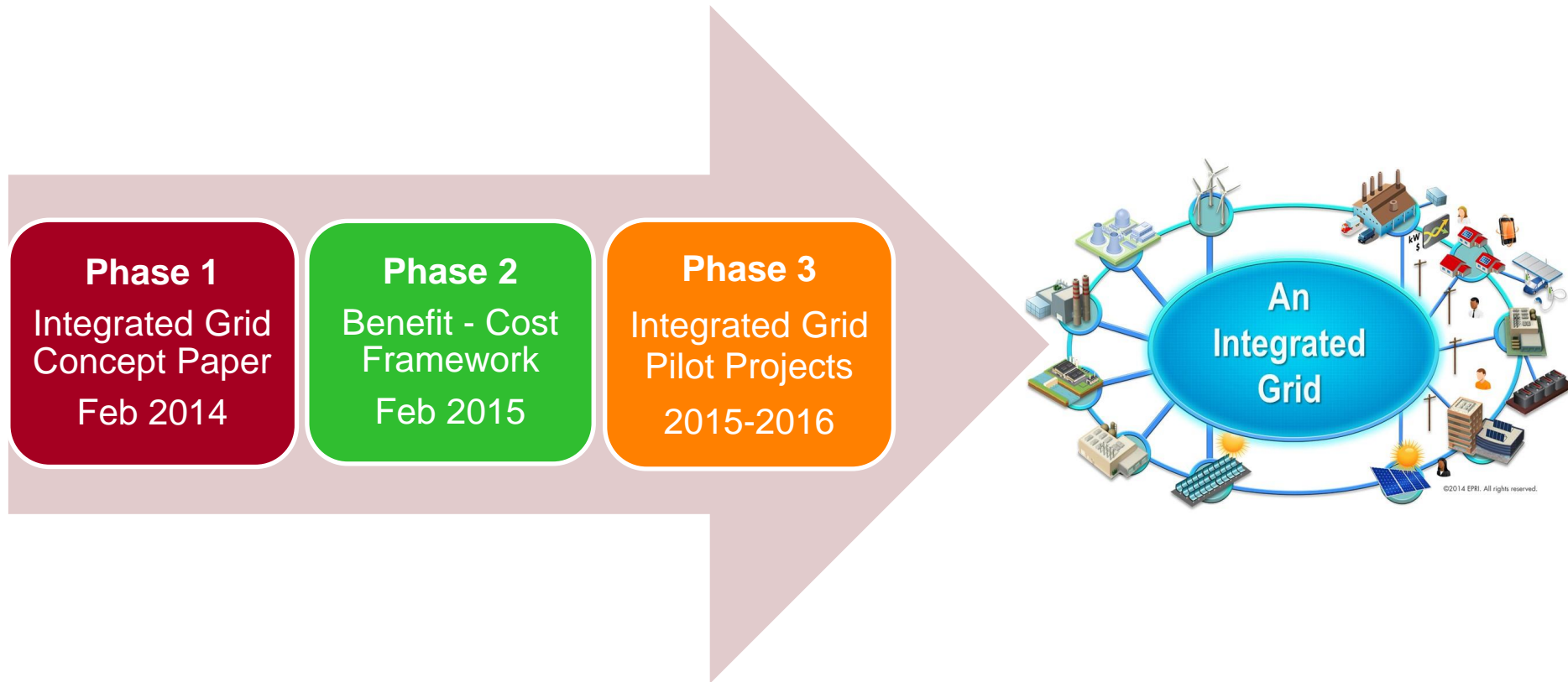
Startup Power



Voltage Quality

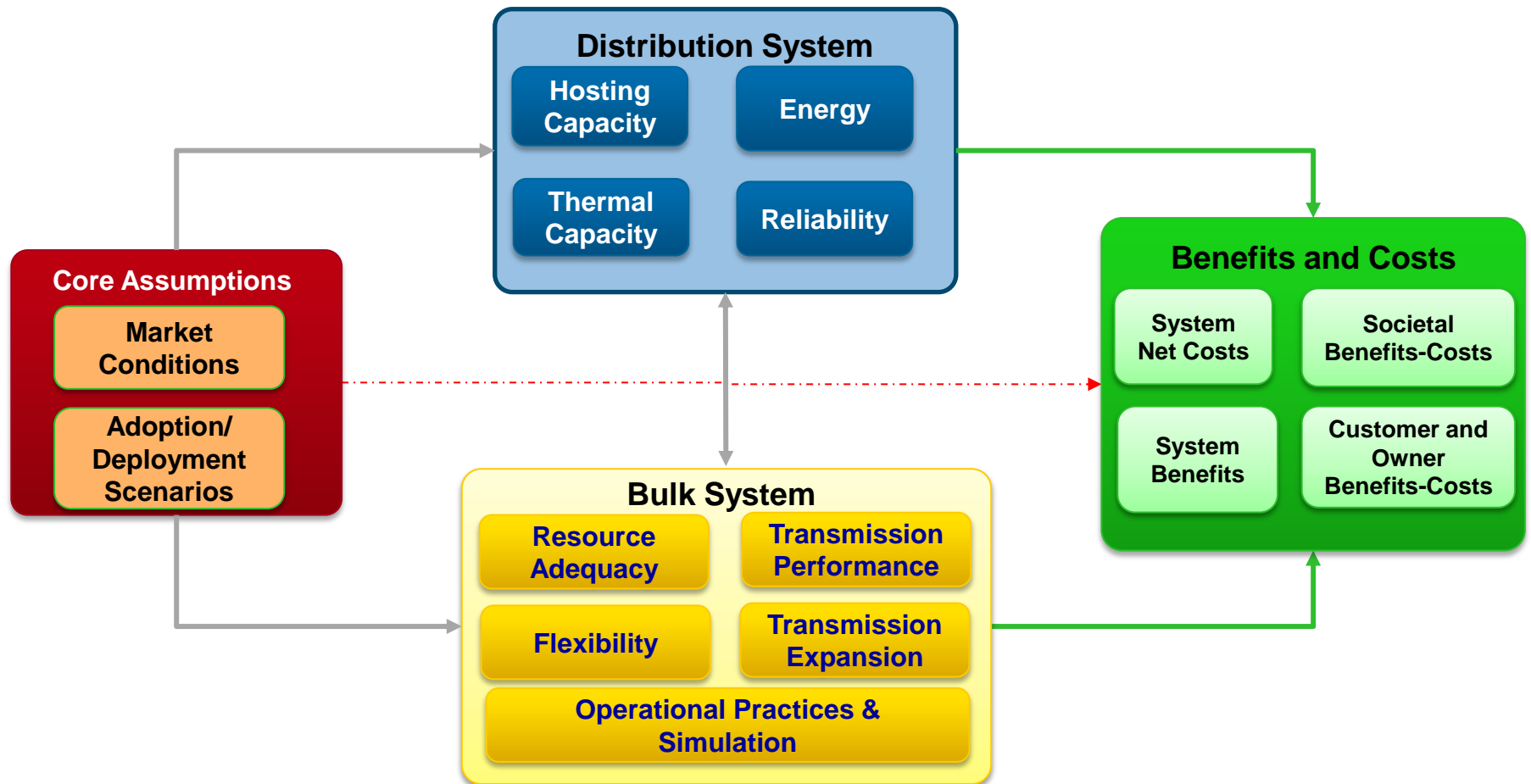


The Integrated Grid



Extensive Stakeholder Engagement from Concept to Field Deployment

EPRI's Integrated Grid Benefit - Cost Framework



Analytical Process that is Consistent, Repeatable and Transparent

Integrated Grid Pilot Projects



Utility Scale Solar



Utility Scale Solar with Energy Storage



Distributed Energy Storage



Microgrids

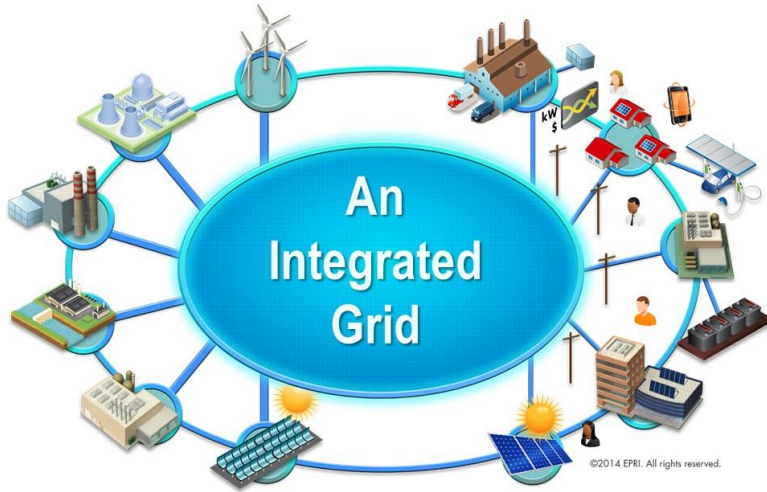


Electric Vehicle Charging Infrastructure



Customer-Side Technologies

Electric Power Research Institute



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