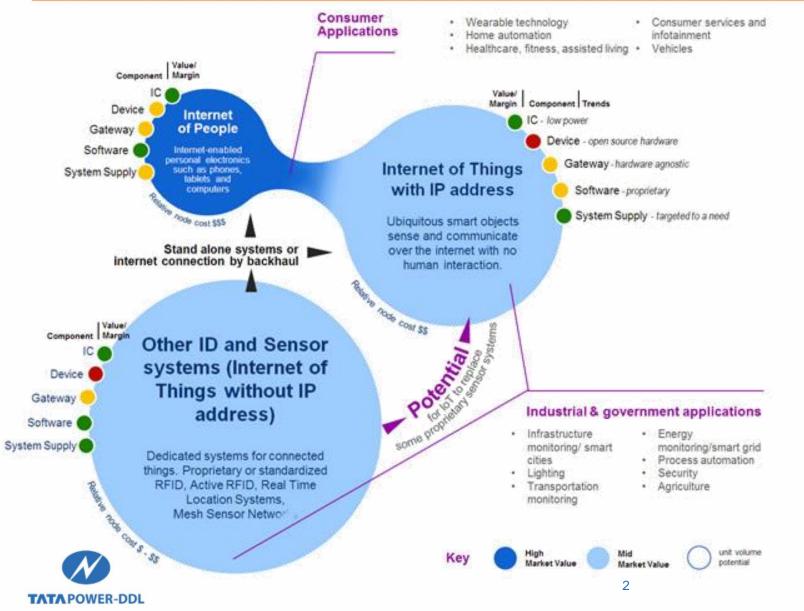


# Smart Grid, Smart Meter, Micro Grid The Gaps and Challenges

3rd Indo-European Conference on Standards and Emerging Technology 26<sup>th</sup> April 2018, The Lalit, New Delhi Dr. G. Ganesh Das Head – Strategy, Business Excellence & Collaborations



#### The Foundation for Everything

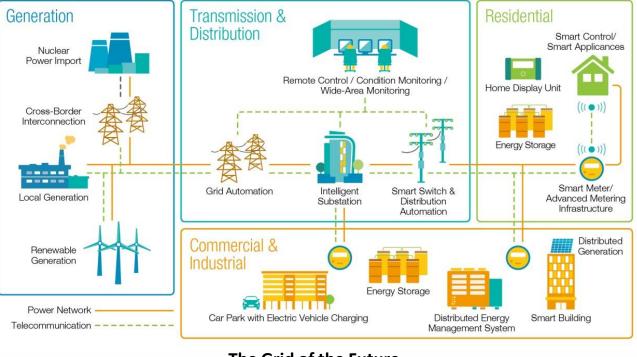


Standards will play a critical role in developing an integrated system which works <u>seamlessly with</u> <u>horizontal and vertical</u> integration

Opportunity to look towards decentralized systems operating in islands <u>by leveraging data</u> <u>analytics and loT</u>

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#### **Smart Grid**



The Grid of the Future

(Source: CLP)



Smart Grid has been the buzz word for quite a few years, but Have we realised its full potential?





technologies have thrown up myriad of challenges, *can we integrate these technologies seamlessly into the network?* 

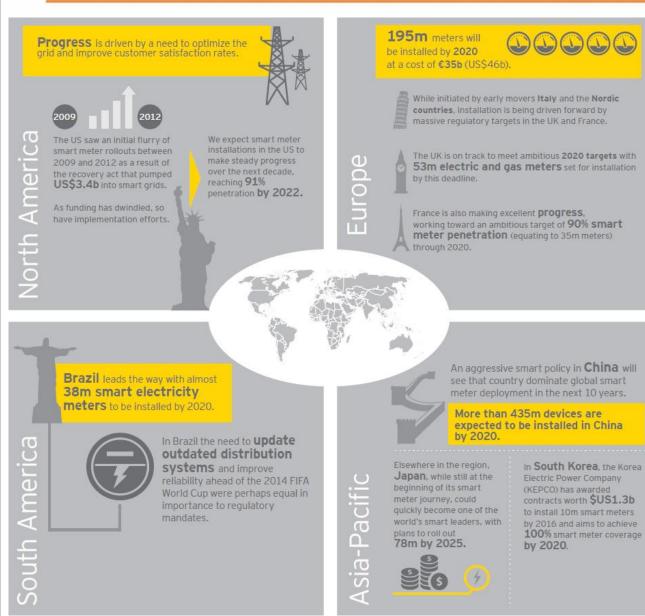




A smarter grid, will be vulnerable to cyber attacks which can cripple cities, are the utilities setting up their defenses?

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#### **Smart Meter**



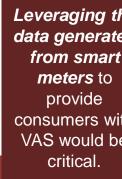
Smart Meters Rollout would be a major initiative for the Indian Utilities in the coming years but, Is it the nirvana for the utilities?



(Source: E&Y)

#### Leveraging the data generated from smart *meters* to provide





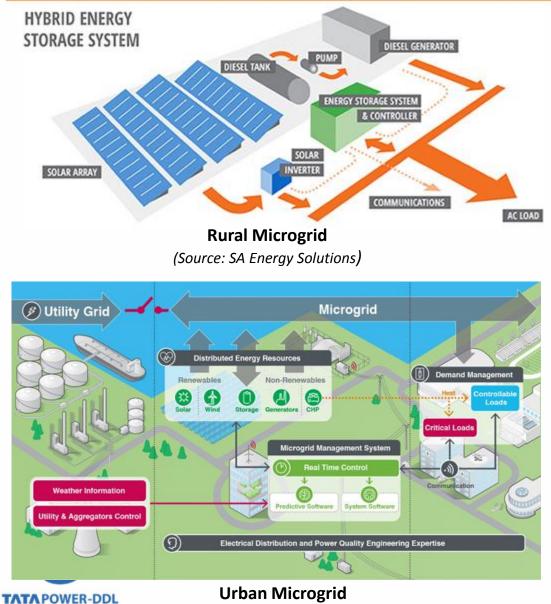




What are the regulations and policies changes required to fulfil smart meter's potential?

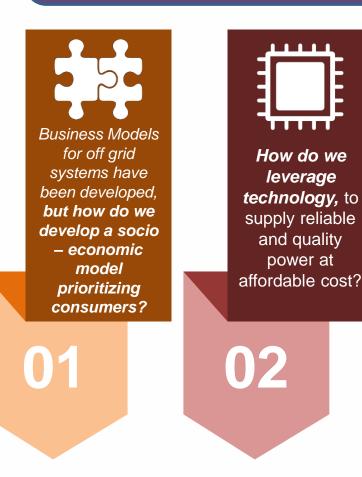
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### Microgrid



(Source: Schneider Electric)

More than 3.2 Crores Households still remain unelectrified, while electrified households face reliability and quality issues, *Microgrid may be the answer to all the problems!* 



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Can islands of energy be created in urban centers leading to higher reliability and ease of operability?

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## Thank You



