

Cu International Copper Association India

kVAh Billing - How to draw Benefits

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Avoid haste, avoid band-aids, Plan for long term

- · Variables affecting plant operations
- · Stock of existing systems affecting kVAh optimisation
- · Stock of existing processes for monitoring/controlling
- · Arrive at the impact that you currently foresee

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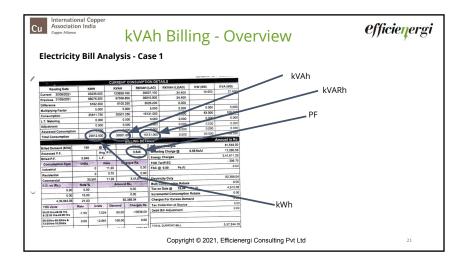
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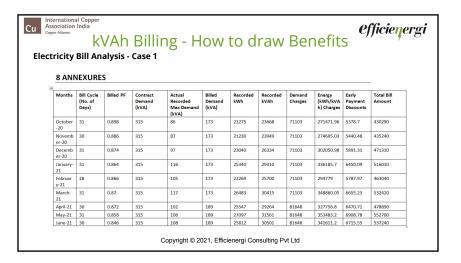
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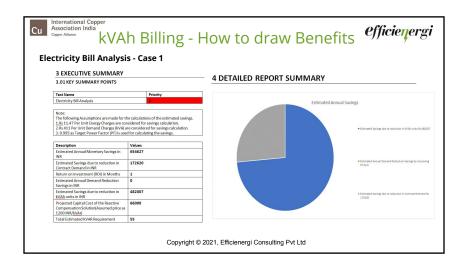
Analysis of past 12 months of Electricity Bills

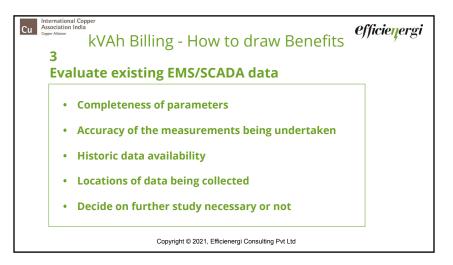
- · Goldmine of data exists in your bills
- Energy consumption/PF/Actual Demand/Billed Demand patterns
- · Potential Losses and/or realistic savings estimates
- Focus on other factors affecting billing
- · Estimate of investment vs. ROI

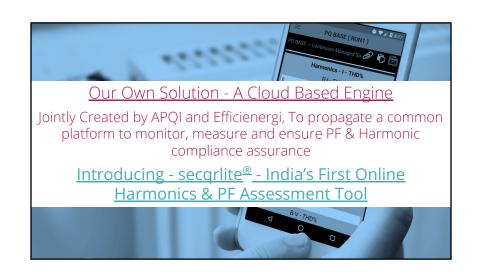
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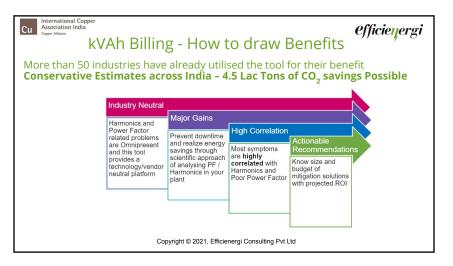














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Comprehensive Energy + Harmonics + Reactive Power + PQ + RPC monitoring

- · Solve 5 problems with one action
- Number of Locations / Duration / Simultaneous measurements
- Type and configuration of analysers to be deployed (Inhouse/Remote??)
- · Beware Switching off RPC's may do more harm
- · Finalise right monitoring strategy Short and Continual Basis

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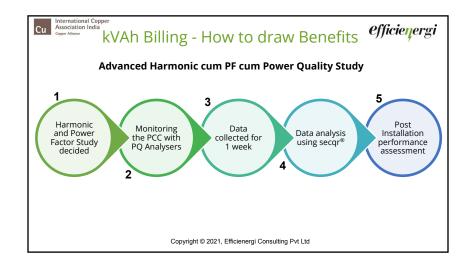
- The increase in your billing amount could be because of one or more factors.
- . The solutions required could also be one or more.
- Most importantly, solution can be decided only after a thorough understanding of the factors that
 affect your system and increase the billing amount.
- A product/technology neutral approach will be valuable.

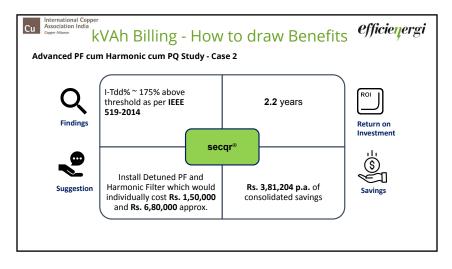
Actual Case Study done with Product/Vendor Neutral Approach

Approach		Cost of the Study	Cost of Filters/Solution (suggested)
OEM Study & Solution	1 Day	INR 10,000/-	INR 80 Lacs
Neutral Study & Solution	5 Days	INR 100,000/-	INR 8 Lacs (90% savings)

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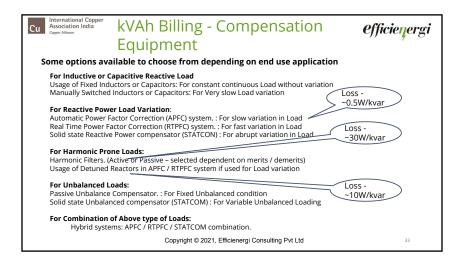




Optimum solution prioritising considering existing systems

- · Solutions lie within your facility a lot of times
- Evaluate collective effectiveness of existing solution, problems and new if any to be considered
- Focus on overall solutions, specifications, best ROI & future service support
- Side-effects of using the solution Buy to solve the problem, not perpetuate it
- · Have a technology/vendor neutral mindset at this stage.

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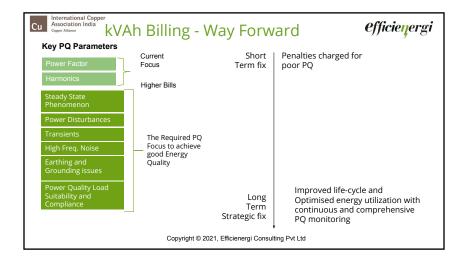




Solution installation & post performance verification

- Ensure complete ownership of the solution and performance
- Plan for minimal downtime for integration of the solution
- Integrate post installation, performance monitoring strategy
- Use power of technology Ensure 24/7 compliance, don't settle for anything else

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Thanks for your attention

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Questions?

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