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| **Problem Solving (A3) Report** | **Topic: Energy/Money Saving** | **Date: August 19, 2020** |
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| **1. Identify a Problem** | **PLAN** |  | **4. Propose & Implement Countermeasures** | **PLAN/DO** |
| * Certain people are unaware on how to properly utilize their household equipment to save energy. * A huge electric bill can have a significant economic impact on a person’s funds. * Improper use of equipment can lead to faster deterioration. | |  | * Create a program that receives data from each energy consuming device inside the household, this data states how much energy was consumed daily. * Use the data to create a monthly report. * Present different alternatives to the user to help reduce energy usage. * Show an estimate of how much money would be saved on each alternative if they were to be taken. | |
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| **2. Set the Target** | **PLAN** |  | **5. Check/Evaluate** | **CHECK** |
| Help users understand how to properly utilize their household equipment to maximize energy and cost efficiency. Reduce energy costs without sacrificing performance. Create a monthly report that shows how much energy was consumed in the household. | |  | ***ASK:***   * Did the countermeasures work? * Was the target achieved * Can I verify that the Root Cause was eliminated (can I turn it off & on) * If the Countermeasure was not effective, why didn’t it work   ***SHOW:***  The results; describe the reliability of the new process  ***TOOLS:***  Line graph, pareto | |
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| **3. Analyze the Causes** | **PLAN** |  | **6. Act and/or Standardize** | **ACT** |
| * Electrical equipment manufacturers prioritize performance over energy efficiency. * Users are clueless on how to operate these devices to their best energy-saving potential. * As households get more modern, electrical energy will be more utilized. | |  | ***ASK:***   * How will we ensure the process continues to work (stays solved)? * What have we learned? * Where else can we apply this learning?   ***SHOW:***  New or changed procedures, plans to apply learning in other areas  ***TOOLS:***  Standard Operating Procedures | |