

Typical examples for network powering with Safecom's products

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Challenges of CATV network powering system

- Reducing OPEX and CAPEX on maintenance of existing power systems as well as cost of network expansion
- Saving energy by optimizing the number and efficiency of power supplies in the network
- Increasing reliability of network powering for extended periods of time

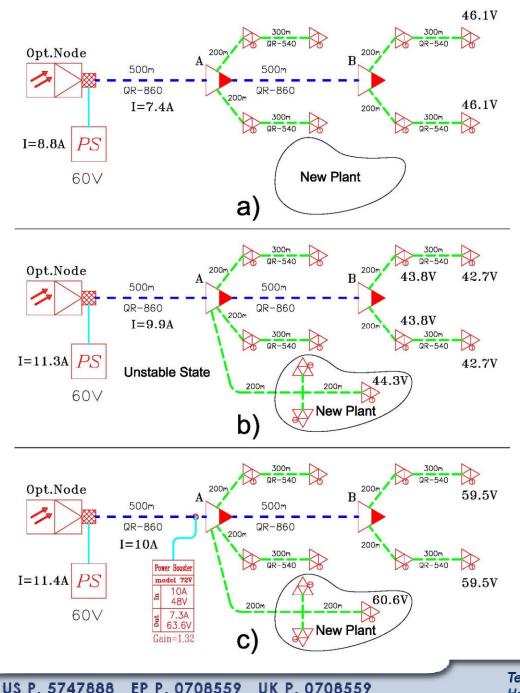


Safecom's solution

Safecom meets the above challenges by offering a combined approach that includes:

- Proven Double Power Source backup solution (DPS)
- High- efficiency AC/AC transformation Safecom's non-Ferro PS enables over 95% efficiency compared with less than 90% on most PS
- Increasing efficiency of power transmission over coax by exploiting effective Power Booster technology





Example 1: Cable plant expansion

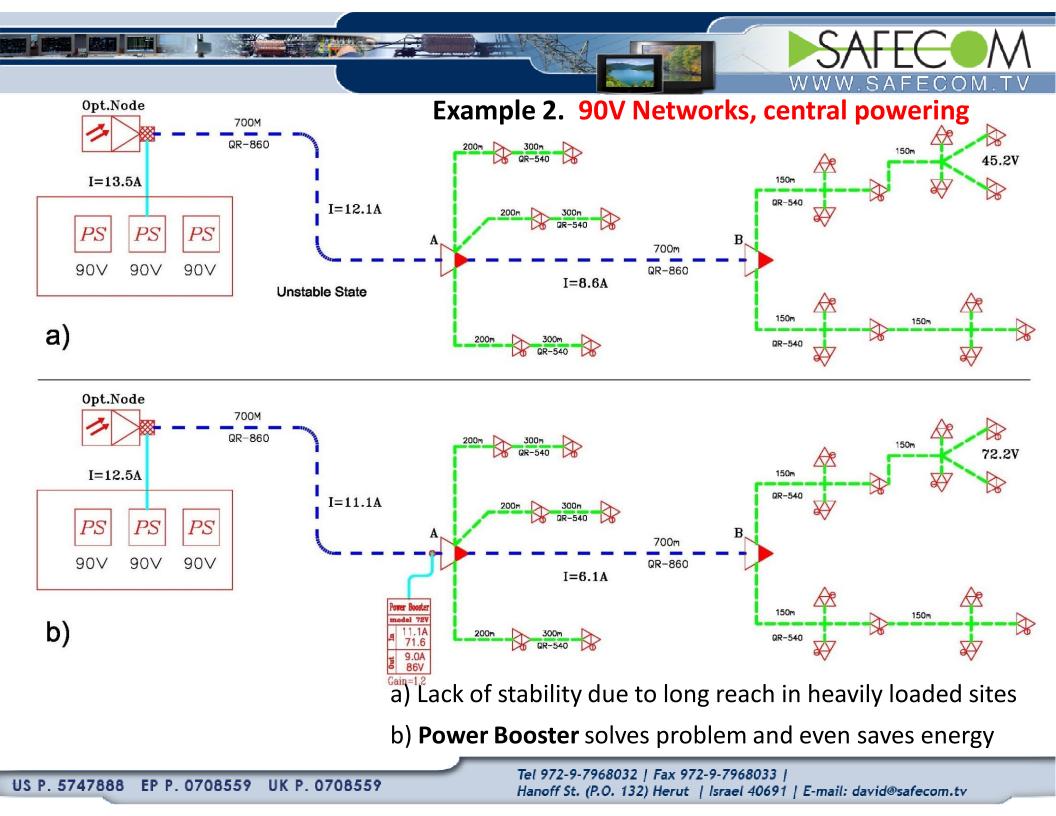
a) Initial network

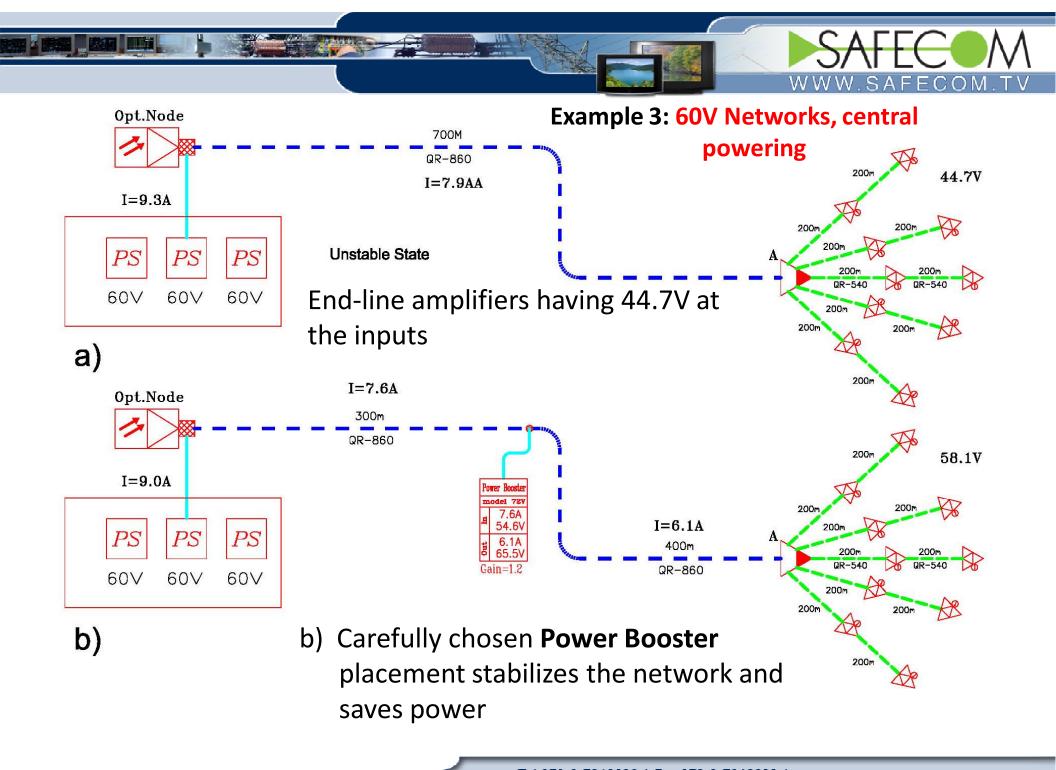
b) Adding new plant. Network becomes unstable due to low AC voltage at the inputs of five line extenders

c) Power Booster added :

 No need to add new power site :PS, Cabinet, municipal license, labor expenses, logistics, electricity connection etc.

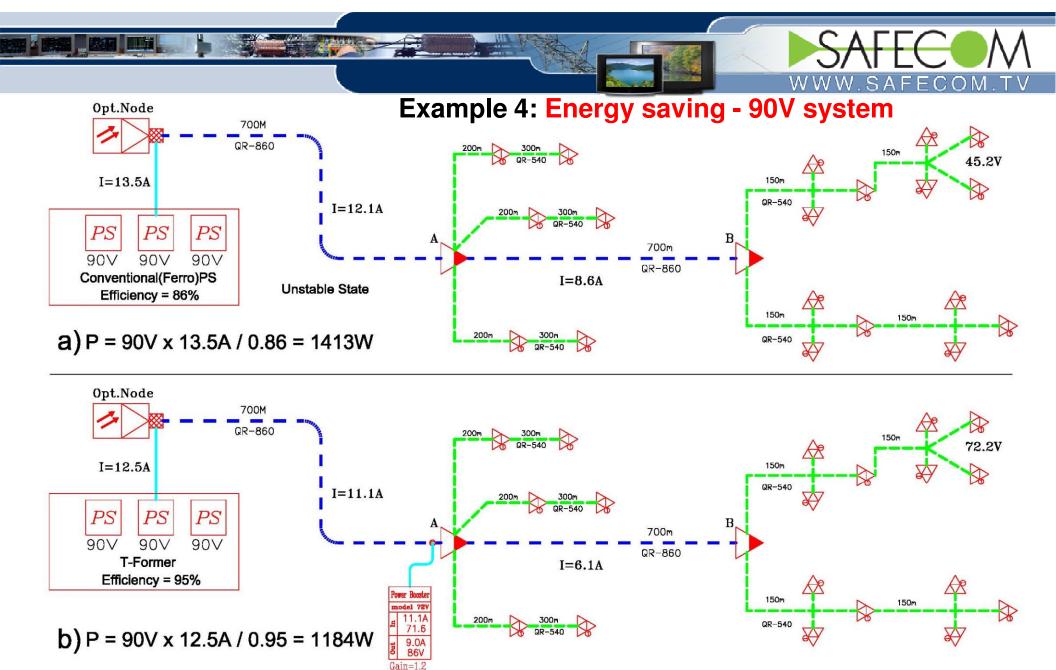
• Optional future network expansion -With the Power Booster, the entire site gets higher voltages at the amplifiers input, which makes future network expansion – possible.





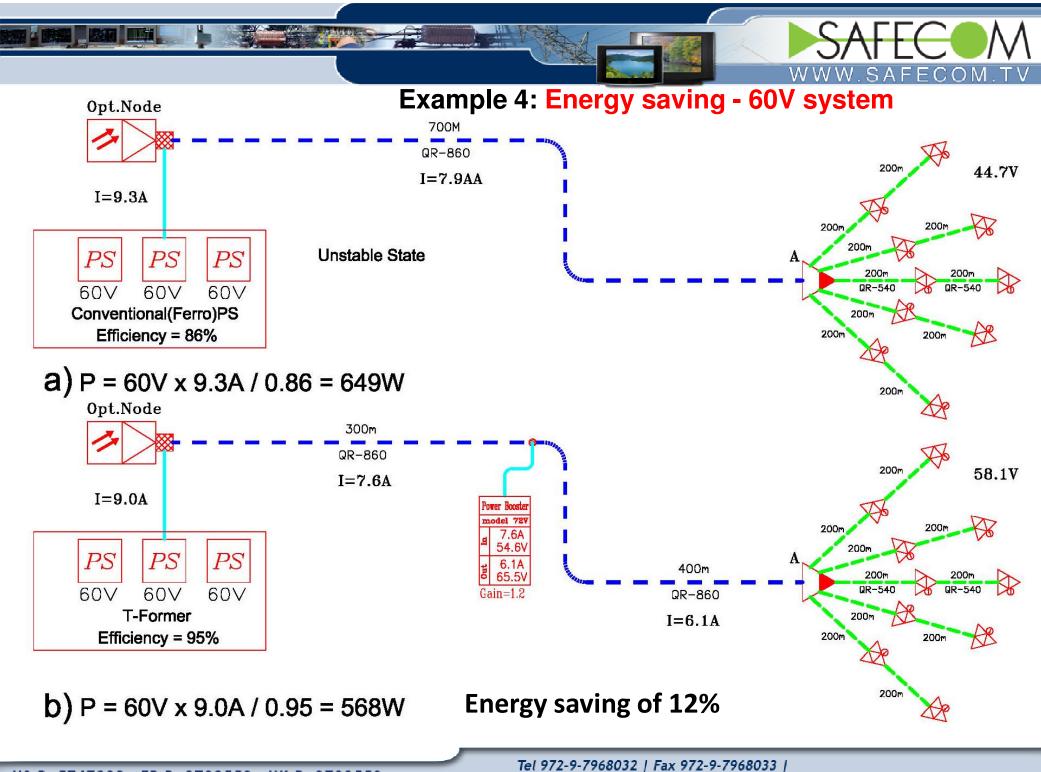
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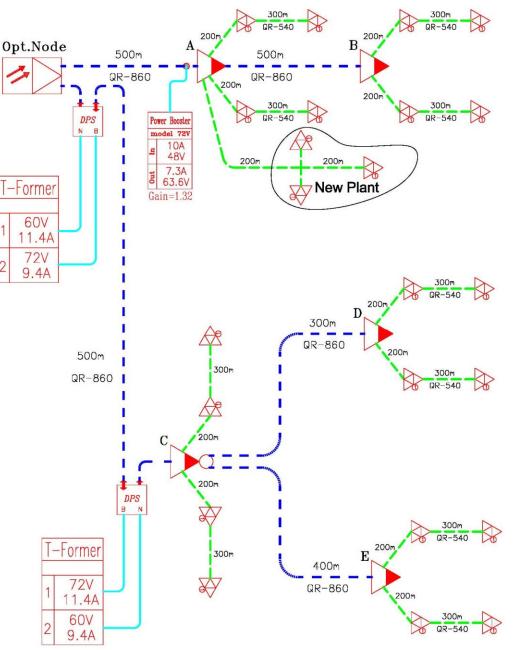
Combined effect of using Safecom' Power Booster and highly efficient PS T-Former

In addition to extended reach and network stabilizing Energy saving of 16% in this example



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Example 6 : Combined solution

The combined solution enables:

- Reliable network power backup without the drawbacks of legacy UPS/battery based schemes
- Reduce operational cost, labor and logistics on powering maintenance and energy expenses
- Reducing Capital cost, by optimizing power sites locations and minimizing the number of PS in the network
- Saving electricity expenses by upgrading old installed base of UPS to highly efficient power supplies
- Reduce environmental damage by reducing carbon footprint and acids

Safecom value proposition

- Safecom's technology enables energy and cost saving in few levels:
- Reducing network OPEX and CAPEX— by reducing the number of batteries, UPS units and maintenance cost
- High- efficiency AC/AC transformation Safecom's non-Ferro PS enables over 95% efficiency compared with less than 90% on most PS
- Increasing efficiency of power transmission over coax that enables:
 - Energy saving and reducing network electricity cost
 - Less PS in the network