



Use Cases for Energy Efficiency Management

draft-stephan-green-use-cases-00

<https://github.com/emile22/draft-stephan-green-use-cases>

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History

- Initial document scope in draft-stephan-green-ucs-and-reqs was spanning through three topics:
 - Use cases (11 described so far)
 - Requirements (either from the use cases above or from EMAN)
 - Initial overview of a framework (for collection, compute and aggregation of metrics)
- Current document (draft-stephan-green-use-cases) concentrates only in the use cases
 - Framework is kept as an appendix for reference
 - It follows the directions discussed during the interim meeting devoted to use cases
 - It entered an adoption call process, being reconsidered according to the comments received so far

Use cases

1. Incremental Application of the GREEN Framework
2. Selective reduction of energy consumption in network parts proportional to traffic levels
3. Reporting on Lifecycle Management
 1. Carbon Reporting
 2. Energy Mix
4. Real-time Energy Metering of Virtualised or Cloud-native Network Functions
5. Indirect Energy Monitoring and control
6. Consideration of other domains for obtention of end-to-end metrics
7. Dynamic adjustment of network element throughput according to traffic levels in wireless transport networks
8. Video streaming use case
9. WLAN Network Energy Saving
10. Fixed Network Energy Saving
11. Energy Efficiency Network Management

Comments in the list

- Carlos Pignataro – regarding premature call for adoption
 - Need for editorial clean-up
 - Purpose of the document
 - Need to consider requirements on the same document
 - Document based on a framework that is expected to be described somewhere else
 - Meaning of Energy Efficiency management
 - Etc
- Carlos Bernardos
 - Convenience of using a template for describing the use cases
 - (such a template was used during the interim presentation)

Next steps

- Revisit the goals in regards this document from the perspective of the WG
- Incentivize the discussion on the draft content
 - Github issues and pull requests as the way of providing / review content, mailing list as the way of discussion and getting consensus, as well as periodically socializing document changes
 - <https://github.com/emile22/draft-stephan-green-use-cases>
- Prepare well in advance a new version with the agreed scope / structure / contents for IETF 123 so that several iterations can be run before next meeting