

# RFC 5434

- There is a problem that needs solving, and the IETF is the right group to attempt solving it.
- There is a critical mass of participants willing to work on the problem (e.g., write drafts, review drafts, etc.).
- The scope of the problem is well defined and understood, that is, people generally understand what the WG will work on (and what it won't) and what its actual deliverables will be.
- There is agreement that the specific deliverables (i.e., proposed documents) are the right set.
- It is believed that the WG has a reasonable probability of having success (i.e., in completing the deliverables in its charter in a timely fashion).

# GREEN BoF – Discussion Points

Do we understand the problem space?

- What do the proponents want to work on?
- Do we also want to do that? Or which parts? Is there an operational need?
- Is it clear what is in scope and what is out of scope?

Where to do the work

- Open source vs. standards vs. proprietary, which SDO and WG?
- How does this work relate to other IETF work?
  - EMAN, IVY, OPSAWG, E-Impact, IPPM, BMWG

Is the staging right?

- Is it possible to take small steps and make building blocks for wider applicability?
- What's foundational? What builds on the foundations? What's for the future?

Are the deliverables and work items clear?

- Can you distinguish between “must have” and “can live without for now”?
- Can they be achieved in around 18 months?

# GREEN BoF – Elements of Potential Work

We've heard about at least:

- Terms and definitions
- YANG models to enable measuring of energy usage
- Functional extensions of measurements beyond EMAN
- YANG models to control & optimize energy usage
- A framework to collect and consume metrics and to manage energy efficiency

# Goals and non-goals for the BoF

Improve the collective understanding of the topic

Discuss the scope for potential work

Understand where we have agreements

Understand where we have disagreements

Get community feedback on what's the right direction for the work

~~Final editing of a charter~~

~~The detailed technical solutions~~

~~Solve all questions or close all disagreements~~

Please leave some room for post-BOF tuning of the proposal

... and hopefully, work in the eventual WG

# GREEN BoF – Priorities

## Basics

- Terms and definitions
- YANG models to enable measuring of energy usage

## Control

- YANG models to control & optimize energy usage

## Security

- Particularly for control

## Higher layer issues

- QoE
- Carbon
- Embedded carbon
- Cost of measuring

## Framework

- A framework to collect and consume metrics and to manage energy efficiency

# Question 1

Does anybody not want to save the planet?

## Question 2

Do we need to work on improved energy measurement and management for networking equipment?

## Question 3

Are you personally willing to actively work on this topic?



# Question 4

Should the IETF create a working group with the discussed topics & prioritization?

# Next steps

Further work on the charter

Mailing list discussion

WG proposal