IETF 116 Environmental Impacts Side Meeting

Yokohama & Online – March 2023

Carlos Pignataro (cpignata@cisco.com)

This session is being recorded









Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

As a reminder:

- By participating in the IETF, you agree to follow IETF processes and policies.
- If you are aware that any IETF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion.
- As a participant in or attendee to any IETF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public.
- Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (https://www.ietf.org/contact/ombudsteam/) if you have questions or concerns about this.

Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- BCP 9 (Internet Standards Process)
- BCP 25 (Working Group processes)
- BCP 25 (Anti-Harassment Procedures)
- BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
- BCP 79 (Patents, Participation)
- https://www.ietf.org/privacy-policy/(Privacy Policy)



Agenda

Intro: (15 mins)

- Introduction, Purpose, and Goals Carlos Pignataro (5 mins)
- E-Impact IAB Workshop Summary Jari Arkko / Suresh Krishnan (7 mins) TBC
- Next steps towards a net zero IETF Greg Wood (3 mins)

I-Ds: (40 mins)

- Challenges and Opportunities in Green Networking draft-cx-green-ps Alex Clemm (8 mins)
- Green Networking Metrics draft-cx-green-metrics Alex Clemm (8 mins)
- Sustainability Insights draft-almprs-sustainability-insights Marisol Palmero (8 mins)
- A Framework for Energy Aware Control Planes draft-retana-rtgwg-eacp Alvaro Retana (8 mins) TBC
- Energy-related Effort within the IETF draft-eckert-ietf-and-energy-overview Toerless Eckert (8 mins)

Outro: (35 mins)

- Open Mike & Discussion All (30 mins)
- Wrap & Next Steps Carlos Pignataro (5 mins)



Purpose and Goals

"Discussion of environmental impacts of Internet technologies."

The "Environmental Impacts" side meeting in IETF116 has the following goals:

- 1. Provide a concrete **continuation** to the conclusions and actions from the *IAB* workshop on Environmental Impact of Internet Applications and Systems, 2022.
- 2. Bring together **parties interested in and working** on the topic and compile an overview of **work already taking place** in different pockets of the IETF.
- 3. Establish, prioritize, and coordinate actionable work items for the IETF to focus on.
- 4. Discuss the potential need and mechanics for continued coordination across the IETF.



Thanks!

Abstract

Over the past decade, there has been an increasing awareness of the environmental impact introduced by the widespread adoption of Internet technologies. While the impact of Internet technologies has an overwhelmingly positive impact (providing alternatives to travel, enabling remote/hybrid work, providing communication support for crisis response, enabling technology-based endangered species conservation, etc.,) there are also negative components and, most importantly, a lot of room remains for us to understand and address these negatives going forward.

This potentially includes

- Understanding and reducing negative environmental impacts across the lifecycle of Internet systems
- Leveraging communication architectures and systems for understanding and reducing other environmental impacts.

