



# IEEE P2814

## Recommended Practices on Techno-economics Terminology for Hybrid Energy and Storage Systems

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**Date: October 08, 2019**

Time: 16:30 (CEST)

Venue: [join.me/Room 11](https://join.me/Room11), IEEE SMC 2019

# Agenda

1. Call to Order
2. Roll call of individuals & declaration of affiliation
3. Approval of agenda
4. IEEE Patent Policy
5. Approval of the minutes of the last meeting
6. WG Policies and Procedures (P&P)
7. Scope and boundaries of the PAR
8. Appointment of officers (Vice-Chair and Secretary)
9. AOB
10. Future meetings
11. Meeting adjourned

## Participants have a duty to inform the IEEE

- Participants shall inform the IEEE (or cause the IEEE to be informed) of the identity of each holder of any potential Essential Patent Claims of which they are personally aware if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
- Participants should inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims

**Early identification of holders of potential  
Essential Patent Claims is encouraged**

# Ways to inform IEEE

- **Cause an Letters of Assurance (LOA) to be submitted to the IEEE-SA (patcom@ieee.org); or**
- **Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or**
- **Speak up now and respond to this Call for Potentially Essential Patents**

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

# Other guidelines for IEEE WG meetings

- **All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.**
  - **Don't discuss the interpretation, validity, or essentiality of patents/patent claims.**
  - **Don't discuss specific license rates, terms, or conditions.**
    - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.
      - **Technical considerations remain the primary focus**
  - **Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.**
  - **Don't discuss the status or substance of ongoing or threatened litigation.**
  - **Don't be silent if inappropriate topics are discussed ... do formally object.**

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For more details, see *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and *Antitrust and Competition Policy: What You Need to Know* at <http://standards.ieee.org/develop/policies/antitrust.pdf>

# Patent-related information

The patent policy and the procedures used to execute that policy are documented in the:

- ***IEEE-SA Standards Board Bylaws***  
(<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>)
- ***IEEE-SA Standards Board Operations Manual***  
(<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>)

Material about the patent policy is available at  
<http://standards.ieee.org/about/sasb/patcom/materials.html>

**If you have questions, contact the IEEE-SA  
Standards Board Patent Committee  
Administrator at [patcom@ieee.org](mailto:patcom@ieee.org)**

# Working Group

- **Sponsoring Society and Committee:**
  - IEEE Systems, Man and Cybernetics Society
  - Sponsor Chair: Prof Loi Lei Lai (P. R. China)
- **WG Chair:** Dr Chun Sing Lai (UK)
- **WG Vice Chair:** Vacant
- **WG Secretary:** Vacant
- **IEEE Program Manager:** Ms Christy Bahn (USA)

# Approval of the minutes of the last meeting

<https://sagroups.ieee.org/2814/>



# WG Policies and Procedures (P&P)

# Purpose

- There is no consistent definition of techno-economic terms that have arisen in the evolution of renewable energy and electrical energy storage systems
- There is a need to define techno-economic terminology so that stakeholders can use a common language when planning standards and for understanding published industrial and technical reports
- This standard is intended to serve as a basic reference for policy makers, developers, and users of such systems, for planning industry standards, and for the interpretation of published technical and industrial reports

# Scope

- This standard defines techno-economic terminologies used in the **development, construction, and operation** of renewable energy and electrical energy storage systems
- Shaping of the scope??

# Some thoughts on scope and boundaries

- Important when defining terms to think of not only direct, but **indirect metrics (e.g. social costs)** of analysis and system effects
- Metrics should endeavor to include **social and qualitative means** of measuring these effects at better reaching politics and laypeople at a non-monetary level as well.
- Does the least cost (\$/kWh) means the most economic?  
Not necessary!

# Some thoughts on scope and boundaries

- **Emissions as means of pay-off (suggested by Michael Tobey)**, GHG saved, e.g. When considering between energy sources, or storage, the cost of replacing existing ones and the pay off period for GHG
- A holistic metric to measure reliability, cost, sustainability, smartness, resilience, and security?
- Circular economy? Economic system to eliminate waste and continual use of resources
- Find a balance between complexity and coverage of the developed metrics
- Open the floor for discussion

# Vacant voluntary positions available

- **Vice Chair:** assists the Chair in all areas, including running the meeting when the Chair is absent or wishes to recuse themselves.
- **Secretary:** serves as record keeper, taking and maintaining minutes of meetings, lists of action items, and rosters of attendees. The Secretary may also send out mailings of minutes, papers, and drafts to the committee.

Ref: <https://standards.ieee.org/develop/mobilizing-working-group/governedwg.html>

# P2814 status

- IMPORTANT DATES
- PAR Request Date: 14 Feb 2019
- PAR Approval Date: 21 May 2019
- PAR Expiration Date: 31 Dec 2023

# Tasks

- Structuring the scope and boundaries of the PAR
- Initial Draft document – (important to establish the ideas that fired the proposal)
- Vice-Chair and Secretary positions
- Meeting (join me, approx. every 1-2 months)



# Conclusion

- Send us your interest in volunteering positions (personal statement and CV)
- AOB
- Schedule of the next teleconference: early Dec 2019, Time TBD
  
- Thank you for your interest and participation in this WG!

# Contacts

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