

2023 Blue Skies Scoring Matrix



| Proposal and Video Evaluation Criteria | Excellent | Very Good | Good | Fair | Poor | Not Done |
|---|-----------|-----------|------|------|------|----------|
| Proposal Evaluation Criteria (Max 80 Points) | | | | | | |
| Technical Merit and Rationale: Sound justification of assumptions for the selected energy source and its source-to-flight lifecycle (Max 20 points) | 20 | 16 | 12 | 8 | 4 | 0 |
| Impact Assessment: Sound technical / scientific / engineering analysis, evaluation, and rationale of the climate impacts attributable to the selected energy source and its source-to-flight lifecycle, indicating thorough and proper research conducted or to be conducted (Max 20 points) | 20 | 16 | 12 | 8 | 4 | 0 |
| Landscape Assessment: Understanding of key technical, social, political, financial, and environmental factors (Max 15 points) | 15 | 12 | 9 | 6 | 3 | 0 |
| Innovation: Of energy source, concept, or technology to the aviation industry (Max 10 points) | 10 | 8 | 6 | 4 | 2 | 0 |
| Theme Adherence: Adherence to competition thematic components as stated in the Overview and Competition Theme Description (Max 10 points) | 10 | 8 | 6 | 4 | 2 | 0 |
| Composition / Grammar / Cohesion: Paper utilizes excellence in the English language, grammar, and composition to effectively convey concepts (Max 5 points) | 5 | 4 | 3 | 2 | 1 | 0 |
| Video Evaluation Criteria (Max 20 Points) | | | | | | |
| Relevance to Proposed Concept: Video enhances / highlights aspects of the team's concept(s) and/or increases understanding of chosen energy source's source-to-flight lifecycle (Max 10 Points) | 10 | 8 | 6 | 4 | 2 | 0 |
| Overall Impression: Video content is aesthetic, organized, and flows. Viewers can easily follow the material (Max 10 Points) | 10 | 8 | 6 | 4 | 2 | 0 |
| TOTAL POSSIBLE POINTS FOR PROPOSAL & VIDEO (Max 100 Points) | | | | | | |

The criteria below will only be applied to the finalist teams who are invited to present their designs at the Blue Skies Forum in June.

| Final Evaluation Criteria | Excellent | Very Good | Good | Fair | Poor | Not Done |
|--|-----------|-----------|------|------|------|----------|
| Final Research Paper Evaluation Criteria (Max 40 points) | | | | | | |
| Technical Merit & Rationale: Sound technical / scientific / engineering analysis, evaluation, and rationale of the selected energy source, its source-to-flight lifecycle, and its climate impacts and safety risks throughout its lifecycle (Max 20 points) | 20 | 16 | 12 | 8 | 4 | 0 |
| Technology, Manufacturing, and Supply Chain Assessment: Realistic assumptions, assessments, and justifications for current technology, manufacturing, and supply chain readiness levels of the selected energy source and its source-to-flight lifecycle. This should include a timeline of necessary technological advances needed for the energy source's entrance into the 2050s aviation market (Max 15 points) | 15 | 12 | 9 | 6 | 3 | 0 |
| Theme Adherence: Adherence to competition thematic components as stated in the Overview and Competition Theme Description (Max 5 Points) | 5 | 4 | 3 | 2 | 1 | 0 |
| Presentation Evaluation Criteria (Max 35 Points) | | | | | | |
| Visual Presentation: Quality of presentation slides (i.e., visuals, structure, appropriate use of slides for information, easy to follow) (Max 10 points) | 10 | 8 | 6 | 4 | 2 | 0 |
| Presentation Delivery: Communication delivery and presence of integration and teamwork (Max 10 points) | 10 | 8 | 6 | 4 | 2 | 0 |
| Q&A Response: Quality of responses to questions from the judges (Max 10 points) | 10 | 8 | 6 | 4 | 2 | 0 |
| Consistency with Final Research Paper: Representative of the findings and work written in the Technical Paper (Max 5 points) | 5 | 4 | 3 | 2 | 1 | 0 |
| Infographic Evaluation Criteria (Max 25 Points) | | | | | | |
| Aesthetics, Creativity, & Organization: Visually compelling; creative use of color, graphics, images, and/or photos; well laid out components that clearly demonstrate the energy source's source-to-flight lifecycle and its positive impact on aviation's sustainability (Max 10 points) | 10 | 8 | 6 | 4 | 2 | 0 |
| Technical Simplification: Language and information and easily understood by people from both different technical fields and non-technical fields (Max 10 Points) | 10 | 8 | 6 | 4 | 2 | 0 |
| Consistency with Final Research Paper and Adherence to Infographic Requirements: Representative of the findings and work written in the Technical Paper (Max 5 Points) | 5 | 4 | 3 | 2 | 1 | 0 |
| TOTAL POSSIBLE POINTS FOR FINAL SCORE (Max 100 Points) | | | | | | |

Assessment

Excellent = Criteria is fully met with exceptional merit, as documented by numerous or significant strengths and with no major weaknesses.

Very Good = Criteria is met with high merit and little errors; strengths fully out-balance any weaknesses and none of those weaknesses constitute fatal flaws.

Good = Criteria is met with a credible response and a few errors; strengths and weaknesses essentially balance each other.

Fair = Criteria is only nominally met and significant errors are apparent; weaknesses outweigh any strengths.

Poor = Criteria is not met and/or has serious flaws; one or more weaknesses constitute fatal flaws.

Not Done = No effort was made to meet criteria.