

GALESS Melbourne Conference Information Pack 2 (IP2)

Energy Transition

Conference Coordination:

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Boroondara Gifted Network

Melbourne, Australia



Participating Schools:

1. Camberwell Girls Grammar School

<https://cggs.vic.edu.au>

Melbourne, Australia

2. Camberwell Grammar School

<https://www.cgs.vic.edu.au>

Melbourne, Australia

3. Caulfield Grammar School

<https://www.caulfieldgs.vic.edu.au>

Melbourne, Australia

4. Fintona Girls School

<https://www.fintona.vic.edu.au>

Melbourne, Australia

5. Ivanhoe Grammar School

<https://www.ivanhoe.com.au>

Melbourne, Australia

6. Mentone Girls Grammar School

<https://www.mentonegirls.vic.edu.au>

Melbourne, Australia

7. Wiedner Gymnasium

www.wiednergymnasium.at

Vienna, Austria

8. Raffles Institution (virtual)

<https://www.ri.edu.sg>

Singapore

RESEARCH REPORT

The research report will address 3 topics.



1. Investigate your country's energy system.

- a. What sources of energy are currently available?
- b. How much and what type of energy is consumed?
- c. What (if any) sources of energy are imported / exported?

2. Propose a plan for transitioning your country's energy system away from carbon based sources.

- a. What energy sources would be used and how would they be developed/acquired?
- b. What are some of the anticipated challenges in this transition?
- c. How can some of these challenges be overcome?

3. Examine the global implications of your country's energy system transition.

- a. What are some potential impacts of your country's transition on other countries?
- b. How can your country aid other countries in their transition to decarbonized energy systems?



Research Setting

Structure of TiltShift Challenges 2, Energy transition

There are three basic features that characterize these challenges:

- The challenge presents the task, the question, or the issue which the students will address and contribute to solve. The challenge is presented by either a well-known politician, a specialist or a practitioner.
- In groups of 4, the students will complete the task guided by a Teacher-Mentor. A well-known politician, specialist or practitioner from their immediate living environment, whose function can be described as a 'living library' is available for advice and consultation.
- The solutions or tasks completed will be presented twofold. First, there must be a written description/account of the solution or task completed. Secondly, the solution/task completed needs to be presented in a challenge situation with other teams. A group of experts will act as jury, judging the contributions. Of all teams involved in the same challenge the written accounts of the solution or task completed will be published in a Challenge book as well as on the GALESS website.



Written Report

- Word length 2500-5000
- References and all other sources must be acknowledged
- Word length of the written report must be shown clearly on the report. Reports that are 10% over the permitted word length will not be accepted.

Information gathering and application

Sufficient breadth and depth of pertinent information; information extends beyond local context to regional context. Identifies the dilemma, including pertinent facts; states what course of action must be decided.

Analysis of Arguments

Determines stakeholders involved and Identify 2-3 arguments and evaluates their consequences effectively.

Weighing and Balancing Arguments

Arguments are sufficiently evaluated. Identifies and applies at least one appropriate theoretical or ethical framework for evaluating alternatives.

Formulation of Conclusion

Identifies and explains an appropriate conclusion, and proposes a plan for implementing it. Linkage between content and global sustainability issues or threats is sufficient; significance at a global level is sufficient.



Delivery Student data, *Abstract* Research Report and Final Research Report

1. School / Student data

Send the following confirmation details to info@galess.org **as soon as possible**.

- Name of your school,
- Address of school,
- Phone number of school,
- Name, email address & phone number of Teacher-Mentor of the team,
- Number of team members (max 4 including stand-by student)
- Names of team members (TM) including a stand-by-student,
- provide the following: TM Surname TM First name TM Date of birth TM Gender,
- Name of External Resource(s) acting as 'living library'.

2. Abstract Research Report

Send the Abstract Research Report to info@galess.org before **June 20, 2023**

(An abstract is a short summary of your research paper, usually about a paragraph, 6-7 sentences, 150-250 words long) . Your Abstract will be published on the GALESS website.

3. Research Report

Send your final research report to info@galess.org before **September 19, 2023**

Your research report will be published on the GALESS website directly after the conference and will be published in the GALESS research book Energy Transition end of 2023.



Further Q & A

Addressing Q&A

If you have operational questions about the conference itself, please address to the organizer. (galessmelbourne2023@gmail.com)

Questions and comments about abstracts, student registrations, living library registrations, mentor registrations and possible mutations in registration data, jury activities, address to info@galess.org

Research reports and student data are registered on the GALESS website for certificate production and research-book production.