

Information pack 2, Bali 21 January 2023



Teams Bali

Organizing

CYS (Center for Young Scientists)

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Mare de Déu del Carme School

Voluntaris Olímpics, 54
08221 Terrassa (Barcelona)
Spain

Wuxi Dipont School of Arts and Science

188 Qingyuan Road, Wuxi Economic
Development District
Jiangsu
China

Korean Minjok Leadership Academy

800 Bongwha-ro, Anheung-myeon,
Hoengseong-gun,
Gangwon-do 25268
Republic of Korea

Mahidol Wittayanusorn School

364 Moo 5 Salaya, Phutthamonthon District,
Nakhon Pathom,
Thailand 73170

National High Jakarta School

Jl. Raya Pos Pengumben 41,
Jakarta Barat 11630
Indonesia

Nguyen Tat Thanh Upper and Lower Secondary School (2 teams, virtual)

136 Xuan Thuy Street, Cau Giay District,
Hanoi City,
Vietnam

African Leadership Academy (virtual)

1050 Printech Ave, Honeydew 2040
South Africa

CEFET (2 teams, virtual)

Av. dos Imigrantes, 1000 –
Bairro Vargem - Varginha - MG –
Brasil



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*



3. Final Registration

Confirmation details

Send the following confirmation details to info@galess.org before **January 3, 2023** for the Bali conference.

- 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 the stand-by
- provide the following:
 - TM Surname
 - TM First name
 - TM Date of birth
 - TM Gender
- Name of External Resource(s) acting as 'living library'.

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Final delivery report

August 15, 2023

Delivering: info@galess.org