

# ELEC6115

## NATIONAL ENERGY STRATEGIES

Coursework Assignment 1  
Worth 25% of ELEC6115 mark  
Published: 30<sup>th</sup> September 2013

### 1. Objective

In this assignment you will formulate future energy strategy (20 years) for one of the assigned countries listed in Appendix A. The strategy you develop must consider the economic, socio-political and geographical circumstances of the respective country. In this you will select a maximum of three energy generation technologies that your assigned country should focus their future energy strategy on and justify your choice. You should also consider the current energy dependency of your assigned country on neighbouring countries, as well as exports.

### 2. What do you need to do?

You will first need to assemble a team of **four or five** members to develop your strategy.

- (a) Once your team has been created, you are required to notify the Module Leader (Dr Igor Golosnoy) of its composition.
- (b) Each group will then be assigned a **primary country**; each student will also be assigned a **secondary country** (see below).
- (c) The group composition needs to be fixed by 11<sup>th</sup> October 2013.
- (d) Students who do not choose to join a team will be randomly allocated into groups after this date.
- (e) If you chose to change groups this is only allowable if, in doing so, the limitations of this assignment are not broken. You will be responsible for ensuring this.
- (f) You will then, as a team, develop the future energy strategy of your primary country. **As a team**, you will then develop a short oral presentation based on your findings.
- (g) You will also, individually, need to consider those factors that are likely to influence the policy of your secondary country. **Individually**, you will generate a short report contrasting the future energy strategies of your primary and secondary countries.

### 3. Assessment

The assignment will be assessed in two parts, one being the group presentation and one being an individual contribution in form of a 2 page summary.

#### (a) Oral Presentation (50% of the marks for this assignment)

**Presentation Material.** In advance of the timetabled presentation slots, the material to be presented must be submitted via the ECS Hand-in system in an appropriate file format (Microsoft PowerPoint .ppt is the only acceptable format) by the specified deadline (see below). Failure to meet this deadline will result in standard late submission penalties being applied to the whole of this section of the assessment.

**Oral Presentation.** The oral presentation is a formal, technical presentation, such as you might in the future have to deliver at a meeting or a conference. After a maximum of 20 minutes the presentation will be stopped and up to 5 minutes for questioning will remain. Questions can come from assessing academic staff or other students and can be directed at the group or individuals. Content that has not been presented within the 20 minutes timeframe will not be considered for the grade. Performance during questioning will be considered for markings.

**Structure.** The presentations will be delivered in the timetabled sessions. It is a requirement that you attend all the presentations within the sessions assigned to your group. The Module Leader should be informed of any extenuating circumstances.

**Duration.** Each presentation should, last for 15-20 minutes, plus up to five minutes for questioning.

**Form.** This is a team exercise and all members must take part in the presentation in some way.

**Content.** Your slides must begin with, Title, Group Number, Team Members and an Overview of the structure of the presentation and finish with a Summary/Conclusions. The technical content should cover at least:

- Introduction of current energy strategy and local conditions (geography, access to energy sources, social and political framework)
- Proposed future energy strategy
  - Proposed focus technology or energy mix
  - Economic viability of the proposed strategy
  - Ecological issues
  - Social and political dimensions

**Software.** You are expected to use PowerPoint for practical reasons, plus any other resources you deem appropriate. However, the availability of any non-standard resources is your responsibility.

The oral presentation itself will be assessed as a team activity on the basis of conformity to specification, quality of presentation, appropriateness of style and content, using the mark scheme given in Appendix B.

**Presentation Material hand-in deadline (electronic submission):  
16:00 Tuesday 12<sup>th</sup> November 2013**

**Dates for the oral presentations are 13<sup>th</sup>, 20<sup>th</sup> and 27<sup>th</sup> November 2013  
Location 16/2025: 14:00-18:00**

**(b) Summary Report (50% of the marks for this assignment)**

The summary report is limited to two 2 pages A4 (plus references) and must be formatted according to standard IEEE conference layout; material beyond the 2 page limit will not be considered. See:

[http://www.ieee.org/conferences\\_events/conferences/publishing/templates.html](http://www.ieee.org/conferences_events/conferences/publishing/templates.html)

No figures or tables are allowed. The summary report is supposed to cover the individual student's view of the strategies they developed for their primary country and should contain a comparison of how these strategies could apply or would have to be adapted for the secondary country.

The report must be submitted electronically via the ECS Hand-in system in Adobe Acrobat .pdf format and a printed version has to be also submitted to ECS reception in Zepler Bld.59.

Each report will be assessed using the mark scheme given in Appendix C.

**Summary Report hand-in deadline (both electronic and hard copy):  
16:00 Tuesday 12<sup>th</sup> of November 2013**

## **APPENDIX A**

### **List of countries that may be assigned (40):**

|                |             |                          |
|----------------|-------------|--------------------------|
| Austria        | Germany     | Portugal                 |
| Argentina      | Greece      | Russia                   |
| Belgium        | Hungary     | Romania                  |
| Bulgaria       | Iceland     | Slovakia                 |
| Brazil         | India       | South Africa             |
| Canada         | Ireland     | Spain                    |
| China          | Italy       | Sweden                   |
| Croatia        | Japan       | Switzerland              |
| Cyprus         | Latvia      | Turkey                   |
| Czech Republic | Lithuania   | United Kingdom           |
| Denmark        | Mexico      | United States of America |
| Estonia        | Malaysia    | Ukraine                  |
| Finland        | Netherlands |                          |
| France         | Poland      |                          |

## APPENDIX B

### Oral Presentation

#### GROUP

Assessed by.....Date.....Location.....

#### Group Marks for Oral Presentation

| Judgement Criteria  | Excellent | Good | Poor | Absent |
|---|-----------|------|------|--------|
| <b>Teamwork:</b> <i>Did everyone contribute to the presentation?</i>  | 3         | 2    | 1    | 0      |
| <b>Visual Aids:</b> <i>Quality of Overheads, handouts, examples. Were they clear and relevant?</i>                | 3         | 2    | 1    | 0      |
| <b>Content:</b> <i>Quality of explanation - was the presentation , intelligible and devoid of factual errors?</i> | 6         | 4    | 2    | 0      |
| <b>Breadth:</b> <i>Did the presentation fully address the issues?</i>   | 6         | 4    | 2    | 0      |
| <b>Overall Quality of Presentation:</b> <i>Was it seamless, well-rehearsed?</i>                                   | 3         | 2    | 1    | 0      |

|  | Throughout | In Places | No |
|--|------------|-----------|----|
| <b>Exceptional:</b> <i>Was this an exceptional presentation?</i> | 4          | 2         | 0  |

Presentation Mark\*

/25

List any absentees below:

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## APPENDIX C

### Report

Student.....

Assessed by.....Date.....

| Assessment Criteria  | Excellent | Adequate | Poor | Absent |
|--|-----------|----------|------|--------|
| <b>Layout:</b> Does the report conform to the general layout specified?  | 3         | 2        | 1    | 0      |
| <b>Topics:</b> Does the report thoroughly address the topic?   | 3         | 2        | 1    | 0      |
| <b>Clarity:</b> Is the subject matter of the report clearly explained and is the report written in good quality English and in an appropriate technical style? | 3         | 2        | 1    | 0      |
| <b>Content:</b> Is the content factually correct and free from any errors of fact or logic?  | 3         | 2        | 1    | 0      |
| <b>Citation:</b> Are all sources of material clearly cited throughout the document?  | 3         | 2        | 1    | 0      |
| <b>References:</b> Are the number of references consistent with a summary and does the report draw upon a range of different sources – books, journals, www?   | 3         | 2        | 1    | 0      |
| <b>Abstract:</b> Does the abstract summarize the complete report?  | 3         | 2        | 1    | 0      |

|                                  | Throughout | In places | No |
|----------------------------------|------------|-----------|----|
| Was this exceptional in any way? | 4          | 2         | 0  |

Total Mark

/25