

ENE700 - COURSEWORK:

Weight: 100%

Students will have to develop a model of a national energy system using EnergyPLAN (e.g. Ireland, UK) for a reference base year (e.g. 2019, 2020) and create future scenarios with a high penetration of VRE showing the impact of integrating two different storage technologies.

In detail, students will have to:

- ✓ *simulate and validate the energy system of a chosen country in a reference year*
- ✓ *identify a scenario with a high level of intermittent renewable sources that can not be potentially introduced in the current energy network*
- ✓ *develop an energy scenario with two different energy storage technologies*

Essay word limit: 3,000

VALIDATION of the reference base year **WEEK 9 – Tuesday 28th of April**

Informal presentation of the draft model results for discussion: WEEK 12

SUBMISSION: 25th of April (submit all the files necessary to build the model + essay)