|  |  |
| --- | --- |
| **Otsikko** | EUn energiatrendit |
| **Kesto (viikkoina)** | 4 |
| **Aloitus / lopetus viikko** | 2/5 |
| **Keskeiset käsitteet ja ongelmat** | Energiatrendit, Euroopan energia systeemit, kasvihuonekaasupäästöt |
|  | Tarjota yleiskatsaus Euroopan energiatrendeihin ja energia riippuvuuteen ja tarjota tietoa GHG päästöistä |
| **Käyttötarkoitus** | Oppijat osaavat analysoida ja keskustella EU:n energiatrendeistä. |
| **Oppimistulokset** | **Presentaatio kalvot:**  [Energy trends within the EU](https://www.dropbox.com/home/EPOQUE%20project/epoque_o5/Course%20IV/Module%201?preview=%5B4.1.013%5D+O5_EnMS_CourseIV_Module1_Topic2.pptx) in online format  **Dokumentit:**   * [TRENDS IN GLOBAL CO 2 EMISSIONS - PBL Netherlands Environmental Assessment Agency, 2013 REPORT, EC Joint Research Centre](https://www.dropbox.com/home/EPOQUE%20project/epoque_o5/Course%20IV/Module%201?preview=%5B4.1.014%5D+pbl-2013-trends-in-global-co2-emissions-2013-report-1148.pdf) * [Renewable energy policies in Europe: converging or diverging? Kitzing, Mitchell & Morthorst (2012)](https://www.dropbox.com/home/EPOQUE%20project/epoque_o5/Course%20IV/Module%201?preview=%5B4.1.015%5D+Renewable_energy_policies_in_Europe.pdf.pdf) * [Characterization of the Household Electricity Consumption in the EU, Potential Energy Savings and Specific Policy Recommendations, An´ıbal de Almeida, Paula Fonseca, Barbara Schlomann, Nicolai Feilberg (2011)](https://www.dropbox.com/home/EPOQUE%20project/epoque_o5/Course%20IV/Module%201?preview=%5B4.1.016%5D+Characterization+of+the+Household+Electricity+Consumption+in+the+EU.pdf) * [Energy Transitions and Regional Inequalities in Energy Poverty Trends: Exploring the EU Energy Divide CONFERENCE PAPER · JANUARY 2014](https://www.dropbox.com/home/EPOQUE%20project/epoque_o5/Course%20IV/Module%201?preview=%5B4.1.017%5D+Energy+divide_+IAEE+SSRN+working+paper_2.pdf) * [Working Paper Energy intensity developments in 40 major economies: Structural change or technology improvement? ZEW Discussion Papers, No. 13-052](https://www.dropbox.com/home/EPOQUE%20project/epoque_o5/Course%20IV/Module%201?preview=%5B4.1.018%5D+766270181.pdf) * [Biomass for energy in the European Union - a review of bioenergy resource assessments,  Niclas Scott Bentsen and Claus Felby (2012)](https://www.dropbox.com/home/EPOQUE%20project/epoque_o5/Course%20IV/Module%201?preview=%5B4.1.019%5D+art%253A10.1186%252F1754-6834-5-25.pdf) |
| **Perusoppimateriaali** | **Dokumentit:**   * [Final energy consumption intensity (ENER 021) - Assessment published Oct 2015](http://www.eea.europa.eu/data-and-maps/indicators/final-energy-consumption-intensity-4/assessment) * [European Environment Agency, Overview of the European energy system (ENER 036) - Assessment published Dec 2015](http://www.eea.europa.eu/data-and-maps/indicators/overview-of-the-european-energy-system-3/assessment) * [Overview of the electricity production and use in Europe (ENER 038) - Assessment published Dec 201](http://www.eea.europa.eu/data-and-maps/indicators/overview-of-the-electricity-production-1/assessment)5 * [European Environment Agency, Primary energy consumption by fuel (CSI 029/ENER 026) - Assessment published Oct 2015](http://www.eea.europa.eu/data-and-maps/indicators/primary-energy-consumption-by-fuel-6/assessment) * [Final energy consumption by sector and fuel (CSI 027/ENER 016) - Assessment published Oct 2015](http://www.eea.europa.eu/data-and-maps/indicators/final-energy-consumption-by-sector-9/assessment) |
| **Muut oppimateriaalit** | none |
| **Opetusvideo** | none |
| **Luettavaa** | Tehtävässä oppijoita pyydetään tarjoamaan vertailu energiatrendeistä jäsenvaltioiden kesken. Arvioitu aika: 30h. |
| **Aktiviteetit** | Moduulin loppuessa oppija:   * Osaa analysoida energiatrendejä * Osaa keskustella energiatrendeistä * Vertailee eri jäsenmaiden energiatrendejä |
| **Tarkistuslista** | Arviointia ei suoriteta tässä vaiheessa. |