



AI-GREENER

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LESSON PLAN

AI-Driven Sustainable Business Models and the Green Economy

 <p>H QUADRAT Bundeshandelsakademie Wolfsberg Austria</p>	 <p>Darica İlçe Milli Eğitim Müdürlüğü Turkey</p>	 <p>CAMPUS 02 Fachhochschule der Wirtschaft GmbH Austria</p>	 <p>ΔΙΕΥΚΥΒΕΤΗΡΙΟ ΔΕΥΤΕΡΙΑΣ ΕΚΠΑΙΔΕΥΣΗΣ ΚΕΦΑΛΛΙΝΙΑΣ Directorate of Secondary Education of Kefallinia Greece</p>	 <p>Jaunpiebalgas vidusskola Latvia</p>	 <p>sucessos criativos Sucessos Criativos, Lda Portugal</p>	 <p>Sredno obshchobrazovatelno uchilishte Lyuben Karavelov Bulgaria</p>
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Disclaimer



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1. TITLE

AI-Driven Sustainable Business Models and the Green Economy

2. GRADE LEVEL

- ISCED Level 3 – Upper Secondary Education (ages 15–18)

3. SUBJECT AREA

- Environmental Studies
- Economics
- Computer Science
- Technology and Design

4. TYPE

- Lesson Plan

5. DURATION

- 2 x 40-minute classes

6. LEARNING OBJECTIVES

- O1 – Define the concept of the green economy and sustainable business models.
- O2 – Explain how AI improves efficiency and reduces environmental impact.
- O3 – Compare traditional and AI-driven sustainable business models.
- O4 – Suggest improvements to make businesses greener using AI.



7. Key Competences Developed

- Literacy
- Mathematical competence and competence in STEM
- Digital competence
- Citizenship competence
- Entrepreneurship competence

8. Prior Knowledge / Prerequisites

None (introductory level)

9. Lesson/Project Outline

Phase 1 – Introduction (Engage & Contextualize)

Activities:

Introduction to green economy and sustainable business models.

Watch a video

<https://www.youtube.com/watch?v=GfqItGzQ7M>

Top 10 Eco Friendly Business Ideas for a Sustainable Future

Think-pair-share:

“How can businesses reduce their environmental footprint?”

Expected Output:

Shared ideas list.

Resource (name)	Link (to the folder on Teams)

Phase 2 – Exploration (Investigate & Compare)



Activities:

Students compare:

Traditional business model

AI-driven sustainable business model

Focus on energy, waste, and efficiency.

Expected Output:

Comparison table worksheet.

Resource (name)	Link (to the folder on Teams)

Phase 3 – Application (Hands-On Practice)

Activities:

Scenario task:

Students act as sustainability consultants and improve a company using AI.

They propose AI tools for:

Energy management

Supply chain optimization

Waste reduction

Expected Output:

AI sustainability improvement plan.

Resource (name)	Link (to the folder on Teams)



Phase 4 – Reflection & Consolidation (Present & Connect)

Activities:

Short presentations.

Reflection:

“Why is AI important for the future of the green economy?”

Expected Output:

Reflection paragraph.

Resource (name)	Link (to the folder on Teams)

10. Assessment Criteria

Understanding of green economy concepts

Ability to apply AI solutions

Critical thinking

Engagement and reflection

Resource (name)	Link (to the folder on Teams)



11. Teaching Materials

Name	Type (Developed/Existing)	Link	Role in the lesson

12. External Resources and References

Resource (name)	Link (external or to the folder on Teams)