

# AI-ENHANCED GREEN SKILLS PROJECTS FOR STUDENTS





# About

These student project ideas are designed to help learners actively explore and apply both core and sector-specific green skills through the creative use of generative AI tools. Rather than merely consuming content, students engage in hands-on, project-based learning that cultivates environmental awareness, problem-solving, and digital creativity. By integrating sustainability education with AI-supported material creation, these projects empower students to build future-ready competencies and contribute meaningfully to green transformation efforts across various fields.

Each project is purposefully designed to foster either core green skills—such as creativity, critical thinking, collaboration, and systems thinking—or sector-specific green skills in areas like sustainable agriculture, renewable energy, eco-friendly construction, and green transportation. By integrating AI tools into these projects, students are empowered to explore, design, and communicate their ideas in meaningful, innovative, and scalable ways—preparing them not only for future green jobs but for lifelong sustainability-oriented practices.



**Funded by  
the European Union**



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## 1. Design an Eco-Awareness Poster

**Project Idea:** Students use AI-powered design tools to create posters on environmental topics like water conservation, renewable energy, or climate change. This builds communication skills and sustainability awareness while engaging students in persuasive visual storytelling.

**Suggested AI Tools:** Canva, Adobe Firefly

**Green Skills:** Sustainability Awareness, Visual Communication, Critical Thinking



## 2. Create a Green Storybook

**Project Idea:** Learners develop an illustrated story about an environmental problem and a solution (e.g., stopping deforestation, cleaning oceans). They use ChatGPT for storytelling support and Firefly for visuals. This fosters creativity, systems thinking, and responsible citizenship.

**Suggested AI Tools:** ChatGPT, Adobe Firefly

**Green Skills:** Storytelling, Systems Thinking, Environmental Literacy



### 3. Sustainable City Visualization

**Project Idea:** Students envision future eco-friendly cities and use AI to generate images and narratives. They explore ideas like public green spaces, smart transport, and energy-efficient buildings, reflecting sector-specific green skills.

**Suggested AI Tools:** Adobe Firefly, DALL·E

**Green Skills:** Urban Sustainability, Innovation, Visual Design

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### 4. Awareness Video on Climate Action

**Project Idea:** Students create an awareness video on issues like plastic pollution or global warming. Using Lumen5 or Synthesia, they combine data, AI narration, and visuals to convey their message effectively.

**Suggested AI Tools:** Lumen5, Synthesia

**Green Skills:** Climate Literacy, Media Literacy, Collaboration



## 5. Green Innovation Project Pitch

**Project Idea:** Learners design an eco-innovation (e.g., compostable packaging, green energy solutions), then prepare and deliver a pitch presentation. This mirrors real-world entrepreneurship.

**Suggested AI Tools:** Gamma, ChatGPT

**Green Skills:** Problem Solving, Eco-Innovation, Communication



## 6. Green Week Campaign Video

**Project Idea:** Students create a campaign video to promote sustainability events such as tree-planting or zero-waste lunch challenges. Using avatars or text-to-speech tools, they lead peer awareness initiatives.

**Suggested AI Tools:** Lumen5, Synthesia, HeyGen

**Green Skills:** Leadership, Ethical Engagement, Advocacy



## 7. Sustainability Podcast

**Project Idea:** Students research topics like sustainable agriculture, circular economy, or clean energy and develop podcast episodes. They use Eleven Labs for narration and ChatGPT for script writing.

**Suggested AI Tools:** ChatGPT, Eleven Labs

**Green Skills:** Research, Digital Communication, Collaboration, Problem Solving, Eco-Innovation, Communication



## 8. Design a Circular Economy Infographic

**Project Idea:** Learners create infographics explaining how circular economy principles apply to real-world scenarios (e.g., fashion, electronics). Canva helps with layout while ChatGPT supports idea development.

**Suggested AI Tools:** Canva, ChatGPT

**Green Skills:** Circular Thinking, Visual Communication, Analysis



## 9. Eco-Hero Digital Comics

**Project Idea:** Students invent a green-themed superhero and create a comic strip that showcases challenges and sustainable solutions. This activity reinforces creative problem-solving and values-based thinking.

**Suggested AI Tools:** Adobe Firefly, ChatGPT

**Green Skills:** Creativity, Values Education, Critical Thinking



## 10. Design a Sustainable Product Prototype

**Project Idea:** Learners design and digitally prototype an eco-friendly product, explaining its impact and materials. They present their work as a slideshow or animation.

**Suggested AI Tools:** Gamma, Canva

**Green Skills:** Design Thinking, Resource Efficiency, Innovation



## 11. AI-Powered Green Journalism

**Project Idea:** Students become school journalists covering green practices in their school or community. They generate articles and newsletters featuring interviews, statistics, and calls to action.

**Suggested AI Tools:** ChatGPT, Canva

**Green Skills:** Civic Engagement, Information Literacy, Ethical Communication



## 12. Interactive Recycling Guide

**Project Idea:** Learners produce a school-based recycling guide with AI visuals and simple instructions. This promotes systems awareness and responsible behavior.

**Suggested AI Tools:** ChatGPT, Canva

**Green Skills:** Design, Sustainable Practice, Systems Thinking





## 13. Sustainable Fashion Campaign

**Project Idea:** Students explore fast fashion's impact and promote sustainable alternatives through visual media or social posts. They create lookbooks, reels, or campaigns with AI tools.

**Suggested AI Tools:** Lumen5, Canva

**Green Skills:** Knowledge Transfer, Collaboration, Visual Storytelling

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## 14. Green Skills Explainer Animation

**Project Idea:** Learners choose one core green skill (e.g., teamwork, systems thinking) and create an animated explainer video to teach peers its value.

**Suggested AI Tools:** Synthesia, ChatGPT

**Green Skills:** Knowledge Transfer, Collaboration, Visual Storytelling



## 15. Eco-Friendly Travel Guide

**Project Idea:** Students research and produce an eco-travel guide including low-emission transport, responsible tourism, and carbon-saving tips.

**Suggested AI Tools:** ChatGPT, Canva

**Green Skills:** Sustainable Mobility, Research, Systems Thinking

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## 16. Green Skill Quiz Creation

**Project Idea:** Learners create interactive quizzes on sustainability topics. These can be used as peer learning or awareness tools.

**Suggested AI Tools:** ChatGPT, Google Forms

**Green Skills:** Environmental Literacy, Assessment Design, Peer Education



## 17. Future of Food Visual Report

**Project Idea:** Students will investigate future trends in food production and consumption — such as plant-based diets, sustainable farming, food waste reduction, and alternative proteins. Using their research, they will create a visual report that communicates these insights through infographics, illustrated timelines, and creative visual storytelling.

**Suggested AI Tools:** Adobe Firefly, Canva

**Green Skills:** Food Systems Literacy, Communication, Innovation

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## 18. Nature Soundboard or Audio Diary

**Project Idea:** Students produce a sound-based diary or calming nature soundboard with AI voices to promote mindfulness and nature appreciation.

**Suggested AI Tools:** Eleven Labs, Canva

**Green Skills:** Well-being, Environmental Connection, Digital Audio Literacy



## 19. Carbon Footprint Awareness Toolkit

**Project Idea:** Students will create a multi-platform awareness campaign to encourage their community to take small but effective actions for reducing carbon footprints. They will research key carbon reduction strategies (energy saving, sustainable mobility, waste reduction), then design engaging materials such as infographics, short videos, and social media posts.

**Suggested AI Tools:** Gemini, Chat GPT, Canva

**Green Skills:** Carbon Literacy, Action Planning, Systems Awareness

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## 20. Green Entrepreneurship Pitch

**Project Idea:** Students form startup ideas that solve real-world ecological problems and develop pitches complete with logos, value propositions, and branding assets.

**Suggested AI Tools:** Gamma, Firefly, Canva, Gemini, ChatGPT

**Green Skills:** Entrepreneurship, Strategic Thinking, Communication