

Proposed Student Business Plan Titles

Energy · Energy & Digital Transition · Circular Economy

A deeper take on the three themes shaping the next decade of entrepreneurship: clean-energy systems, the digital layer that makes them work, and the circular models that close the loop.

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What's new in this expanded edition



ENERGY

5 sub-themes

- Renewable generation & distributed energy
- Grids, storage & flexibility markets
- Electrification & e-mobility
- Efficiency, demand-side & behavior
- Low-carbon fuels & hard-to-abate sectors



DIGITAL TRANSITION

4 sub-themes

- AI & analytics for energy systems
- IoT, smart metering & the edge
- Energy data platforms & marketplaces
- Cybersecurity & digital twins



CIRCULAR ECONOMY

4 sub-themes

- Industrial symbiosis & by-product exchange
- Reuse, repair & product-as-a-service
- Materials tracking & digital product passports
- Bio-economy & regenerative design

PART 01

Energy

Five sub-themes · 25 business plan titles

Renewables · Grids & Storage · Electrification · Efficiency · Hard-to-abate

Renewable Generation & Distributed Energy



01

SolarShare+

Peer-to-peer rooftop-solar trading layered on community virtual power plants.



02

AgriVolt

Agrivoltaics planning tool: pairs crop-yield models with PV layouts for farmers.



03

WindCoop

Cooperative ownership platform for small wind turbines in coastal villages.



04

BalkanGeo

Shallow-geothermal heating-and-cooling kits for SMEs in southeast Europe.



05

HydroLite

Modular micro-hydro units for irrigation channels in Mediterranean farms.

Grids, Storage & Flexibility Markets



01

FlexBid

Aggregator letting households bid demand-response into balancing markets.



02

BatteryAsAService

Subscription home batteries with revenue-sharing on grid services.



03

GridTwin

Real-time digital twin of low-voltage networks for distribution operators.



04

VPP Campus

Virtual power plant linking university rooftops, EV chargers, and HVAC.



05

H2Store

Underground salt-cavern hydrogen storage pilot for Aegean island grids.

Electrification & E-Mobility



01

EcoCharge

Renewable-powered EV charging network for small towns and rural routes.



02

FleetVolt

Electrification-as-a-service for last-mile delivery and municipal fleets.



03

HeatPumpHub

End-to-end installer marketplace: financing, subsidies, and monitoring.



04

ShorePower

Cold-ironing systems letting ships plug into shore electricity at port.



05

V2GreekIslands

Vehicle-to-grid pilots turning island EV fleets into mobile storage.

Demand-Side Efficiency & Behavior



01

EnerSave

Mobile app coaching households on daily energy-efficiency habits.



02

SmartGrid U

AI-based campus energy monitoring that cuts electricity bills 10–20%.



03

RetrofitOne

One-stop-shop for residential deep-renovation packages with EU funds.



04

PoorPower

Energy-poverty platform matching vulnerable households with subsidies.



05

LumenSense

Adaptive LED-and-sensor lighting retrofit for SMEs, paid via savings.

Low-Carbon Fuels & Hard-to-Abate Sectors



01

Biowatt

Anaerobic-digestion units converting agri-waste into community power.



02

GreenSteel

Carbon-neutral steel production using green hydrogen reduction.



03

AmmoniaBlue

Maritime ammonia bunkering hub with safety and certification stack.



04

eMethanol Med

E-methanol production from captured CO₂ for short-sea shipping fuels.



05

CarbonCement

Calcined-clay supplementary materials cutting cement emissions 40%.

PART 02

Energy & Digital Transition

Four sub-themes · 20 business plan titles

AI & Analytics · IoT & Edge · Data Platforms · Cybersecurity & Digital Twins

AI & Analytics for Energy Systems



01

LoadCast

Probabilistic load-forecasting service for distribution system operators.



02

PriceWatt

AI-driven day-ahead and intraday price-forecasting for energy traders.



03

AssetIQ

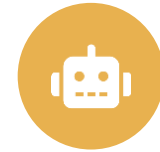
Predictive maintenance on wind turbines and transformers via vibration data.



04

RoofScan

Computer-vision PV-potential mapping from satellite and drone imagery.



05

EmissionGPT

LLM assistant guiding SMEs through ESG and CSRD reporting workflows.

IoT, Smart Metering & the Edge



01

MeterMesh

LoRa-WAN sub-meter network giving tenants real-time consumption views.



02

EdgeWatt

On-device ML controlling heat pumps and EV chargers behind the meter.



03

PortSense

IoT emissions and power-quality sensors for shore-side maritime hubs.



04

ColdRoom AI

Smart refrigeration controller cutting supermarket energy 15–25%.



05

PlugPulse

Smart plug + app for SMEs that flags phantom loads and idle equipment.

Energy Data Platforms & Marketplaces



01

GreenLedger

Blockchain registry for guarantees-of-origin across EU member states.



02

PPA Match

Marketplace pairing corporate buyers with small renewable developers.



03

CarbonAtlas

API and dashboard giving SMEs real-time Scope 1–3 emissions visibility.



04

OpenGrid EU

Open-data portal exposing DSO network topology for third-party innovation.



05

TariffPilot

Recommender comparing dynamic-tariff offers based on household load profiles.

Cybersecurity & Digital Twins



01

ShieldGrid

OT-cybersecurity-as-a-service for substations and DSO control rooms.



02

TwinWind

Digital twin of wind farms blending CFD, SCADA, and weather data.



03

RefineryTwin

Process digital twin for refineries running decarbonisation scenarios.



04

CityHeatTwin

Urban-scale heat-network twin for planning district-heating upgrades.



05

SOC4Solar

Security operations center monitoring distributed PV inverter fleets.

PART 03

Circular Economy

Four sub-themes · 20 business plan titles

Industrial Symbiosis · Reuse & Sharing · Materials Tracking · Bio-economy

Industrial Symbiosis & By-Product Exchange



01

ReLoop

Marketplace connecting businesses to reuse waste-streams and by-products.



02

HeatHarvest

Captures industrial waste heat and sells it to nearby district networks.



03

AshToCement

Logistics platform routing fly-ash and slag from utilities to cement plants.



04

CO₂Match

Pairs captured-CO₂ streams from breweries with greenhouses and e-fuels.



05

WaterLoop

Treated-effluent reuse exchange for industrial parks in water-stressed regions.

Reuse, Repair & Product-as-a-Service



01

ReWear

Clothing rental and recycling service for university campuses.



02

FixIt Café

Network of repair cafés with logistics and certified-spare-parts supply.



03

ToolPool

Neighbourhood platform for sharing power tools and DIY equipment.



04

PhoneCycle

Refurbishment-as-a-service for corporate smartphone and laptop fleets.



05

LightLease

Lighting-as-a-service: pay-per-lumen contracts for offices and warehouses.

Materials Tracking & Digital Product Passports



01

MatLoop

Material-passport platform tracking flows across industrial value chains.



02

BatteryID

Lifecycle passport for EV batteries: second-life routing and recycling.



03

BuildBank

Inventory of reclaimed-building components from demolition sites.



04

PlasticTrace

Blockchain traceability for recycled-plastic content in consumer goods.



05

EU-DPP

SaaS toolkit helping SMEs issue EU Digital Product Passports.

Bio-economy & Regenerative Design



01

MyceloPack

Mycelium-grown protective packaging replacing expanded polystyrene.



02

SeaPlastic

Recovered-ocean-plastic supply chain for designer brands and 3D printing.



03

AlgaeBuild

Algae-based biocomposites for non-structural construction panels.



04

AgroResid

Olive-pit and grape-marc valorisation into bio-products for Mediterranean SMEs.



05

ReForest+

Carbon-credit platform combining native reforestation with biodiversity metrics.

Where the three themes converge

01 Software is now infrastructure

Every credible energy idea in the next decade has a data, analytics, or platform layer. Hardware-only plays are increasingly rare — students should pair domain ideas with a digital business model.

02 Circularity unlocks the business case

Recovery of materials, heat, water, and second-life equipment frequently turns marginal energy projects into bankable ones. The circular layer is often where the margin lives.

03 Regulation is a tailwind, not a constraint

EU Green Deal, Fit-for-55, CSRD and the Digital Product Passport create explicit demand for the categories above. Read the regulation — each article is a startup brief.

04 Local context beats generic ideas

Mediterranean conditions — islands, ports, agri-residues, building stock, climate stress — favour specific business models. Ground the idea in a real geography.

CLOSING

65 expanded titles, three converging transitions.

“The best way to predict the future is to create it.”

— Peter Drucker

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