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Innovation Ready Energy & Circular Economy!

“New technologies and Innovative Solutions in Energy & the Circular Economy”

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Energy cases -1/2

1. **Cyrus** : *Creates the future of hydrogen compressors for transport applications*

Hydrogen compressor achieving pressures up to 1000 bar by using thermal processes instead of moving parts. Noiseless operation and minimal operational costs. Easily integrated in renewable energy systems.

TRL	9	Time to market (months)	3	Funds invested (€k)	600	More funds needed (€k)	2000
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2. **DomX**: *Home IoT technologies*

Addresses the whole energy ecosystem, with solutions ranging from products targeting individual consumers to advanced energy services for key energy stakeholders (suppliers, technical services, etc.).

TRL	7-9	Time to market (months)	0	Funds invested (€k)	1000	More funds needed (€k)	-
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3. **DTWISE**: *We speak Data, We deliver Efficiency*

Offers customizable energy saving and management solutions, incorporating artificial intelligence & data analytics to its offerings.

TRL	9	Time to market (months)	0	Funds invested (€k)	500	More funds needed (€k)	800
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Energy cases -2/2

4. **GIVE Engineering:** *Inspiring change through innovation and creative design*

Provides technical innovation, product design, and advanced engineering analysis that can range from single components to full systems and from concept to prototyping.

TRL	7-8	Time to market (months)	9	Funds invested (€k)	640	More funds needed (€k)	1000
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5. **HELBIO:** *Towards to a Greener future based on Hydrogen*

Profitably develops and deploys innovative, environmentally clean, energy efficient Hydrogen Units & CHP systems which serve Industrial, Transportation, Telecommunication and Residential needs.

TRL	9	Time to market (months)	0	Funds invested (€k)	-	More funds needed (€k)	-
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6. **EV Loader:** *Software for smarter EV charging*

Electric vehicle charging station management software that utilizes variable pricing to encourage drivers to charge with clean energy.

TRL	9	Time to market (months)	0	Funds invested (€k)	200	More funds needed (€k)	300
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Circular Economy -1/2

7. **BIO2CHP: *Cut energy costs, use industrial organic residues***

BIO2CHP offers a power generator, at the size of a container, which converts solid organic residues into energy, on-site.

TRL	7-8	Time to market (months)	12	Funds invested (€k)	200	More funds needed (€k)	300
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8. **ECORESOURCES: *Circular economy tailor made solutions***

Expertise in environmental and chemical technologies, developing innovative processes, and finding solutions for: 1) solid wastes valorization (i.e., mining wastes, slags, etc.) 2) potable water and wastewater decontamination

TRL	3-5	Time to market (months)	8-12	Funds invested (€k)	150	More funds needed (€k)	-
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9. **Greener than Green Technologies: *Creating synergies around water***

R&D and marketing of disruptive water and wastewater remediation technologies and methodologies for the circular assisting of the industry to achieve transition of towards a circular economy mode

TRL	6	Time to market (months)	36	Funds invested (€k)	1.200	More funds needed (€k)	-
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Circular Economy -2/2

10. PHEE PC: *Developing & Producing the bio-based materials of tomorrow*

Bio-Based composite materials, produced in panels, by upcycling different types of bio-residues

TRL	8	Time to market (months)	48	Funds invested (€k)	100	More funds needed (€k)	1500
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11. SOLMEYA: *CO2 utilization through vertical microalgae farming*

High value biomolecules & proteins through vertical microalgae farming, utilizing optimally our natural finite resources, the ample sunlight & some of the CO2 emissions

TRL	5	Time to market (months)	4	Funds invested (€k)	150	More funds needed (€k)	200
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Thank you

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