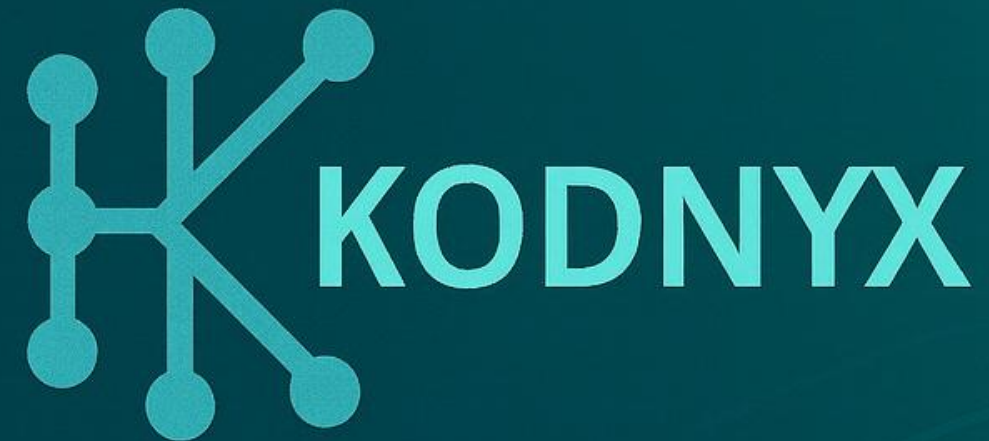


Enabling Energy Efficiency Providers to  
Design Cost Optimized Systems and Win  
More Projects – by Leveraging Direct  
Current



# As Energy Demand Grows, Efficiency Becomes the New Competitive Edge

## Electricity Demand until 2030

**25%** 

International Energy Agency (2025)

## Electricity as a Share of Operating Costs in EU Industry

**14%** Second-largest cost driver  
after raw materials (20 %)

Deloitte (2025)

## Drop in total production of Europe's energy- intensive sectors due to high energy costs

**-10%** 

Eurostat (2023)

Electrification is driving a surge  
in energy use

More demand means higher  
total energy spend - even if  
prices stay flat

Energy costs are already  
eroding competitiveness for  
manufacturers

# A 35%\* Efficiency Potential Hidden in a Historically Grown Inefficiency



Grid in AC

**Alternating current (AC)** became the global standard 135 years ago - the best choice for **long-distance transmission**.



Sources & Loads in DC

Today's energy world runs on **direct current (DC)** - from **solar & batteries** to **EVs, data centres, robotics, computers & LED lighting**.

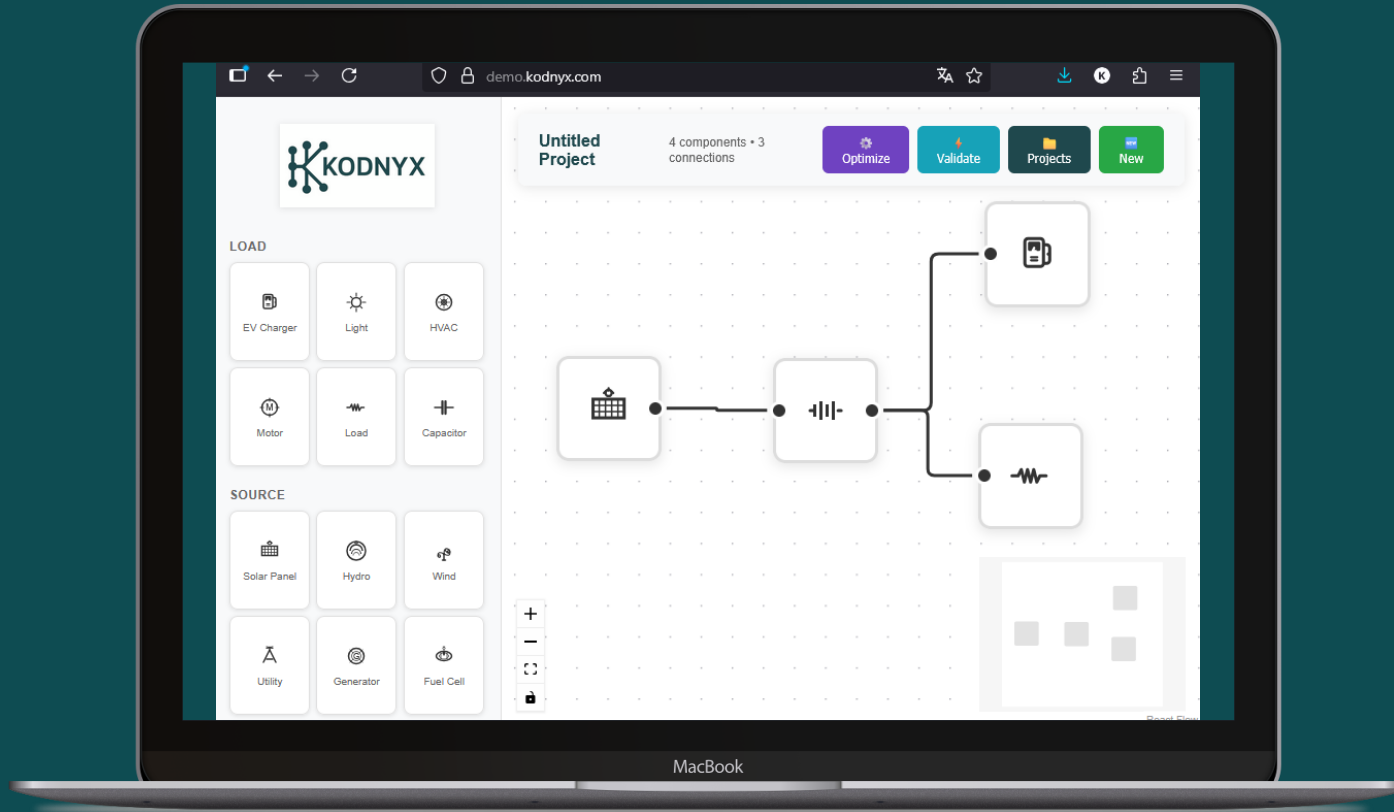


Inefficiency due to legacy

This legacy mix causes repeated **AC/DC conversions** leading to energy losses of up to **35%**. It also increases material use and system complexity, **wasting energy and resources**.

\*Low-voltage DC distribution power losses compared to prevalent AC system (EU Commission, 2024).

# The Design Software That Turns Hidden Inefficiency into 35% Energy Savings



## Map & Design

Map and design electrical systems in AC/DC  
Component library & Digital twin

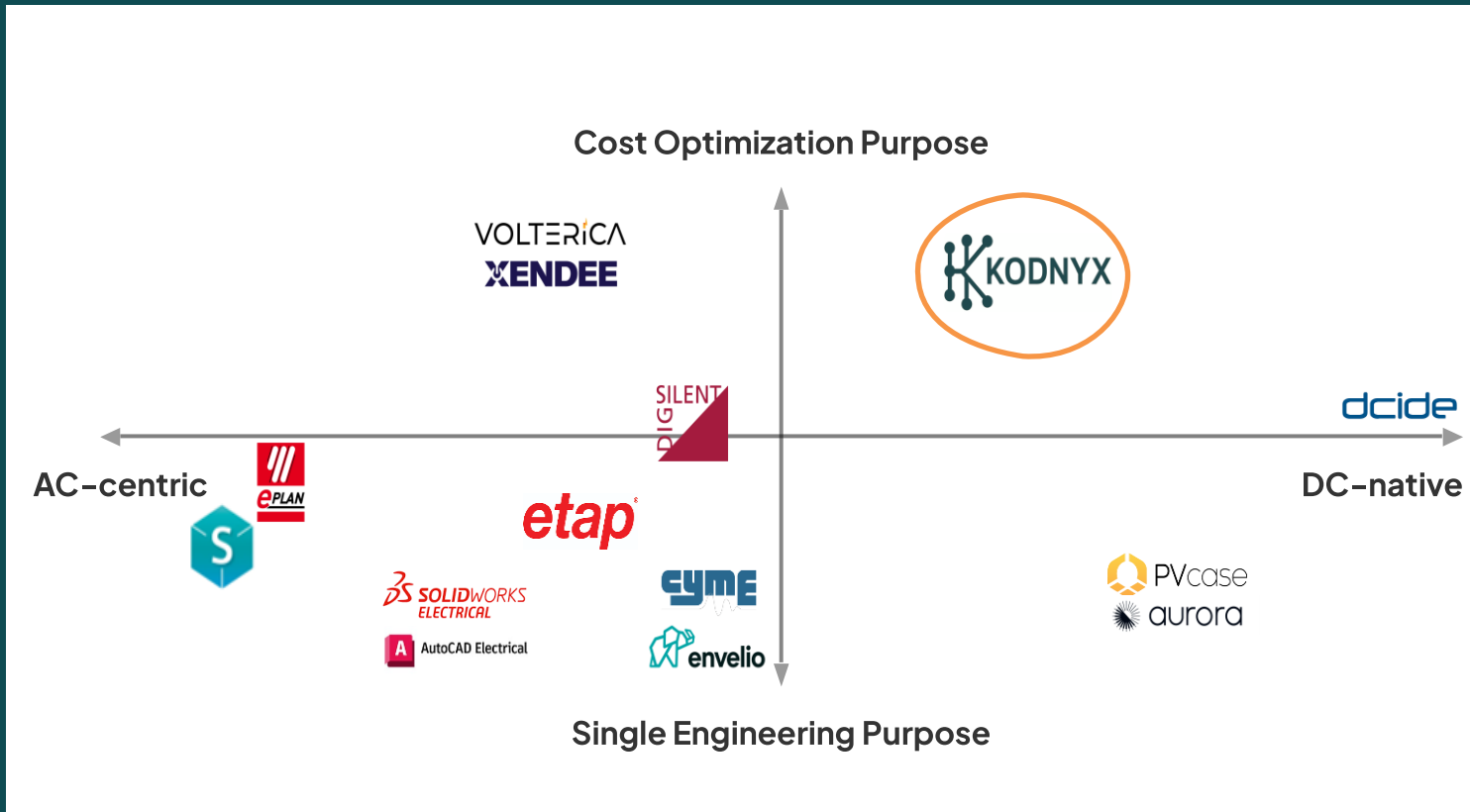
## Validate & Simulate

Ensure safety, compliance and avoid costly  
rework with built-in validation  
Simulate electricity flow

## Optimize with DC

Identify the optimal layout - AC, DC, or hybrid -  
and unlock hidden efficiency

# Kodnyx is the Only Design Tool Optimizing Costs Across AC and DC



## Single Engineering Purpose

Traditionally, software in electrical engineering solves a specific engineering challenge

## Cost Optimisation Purpose

A few start-ups focus on cost optimisation, mainly in alternating current

## AC-centric

Being the default, most software tools are built for alternating current

## DC-native

Electrical system design in DC is still a white space, with only one niche and very technical solution without focus on optimisation

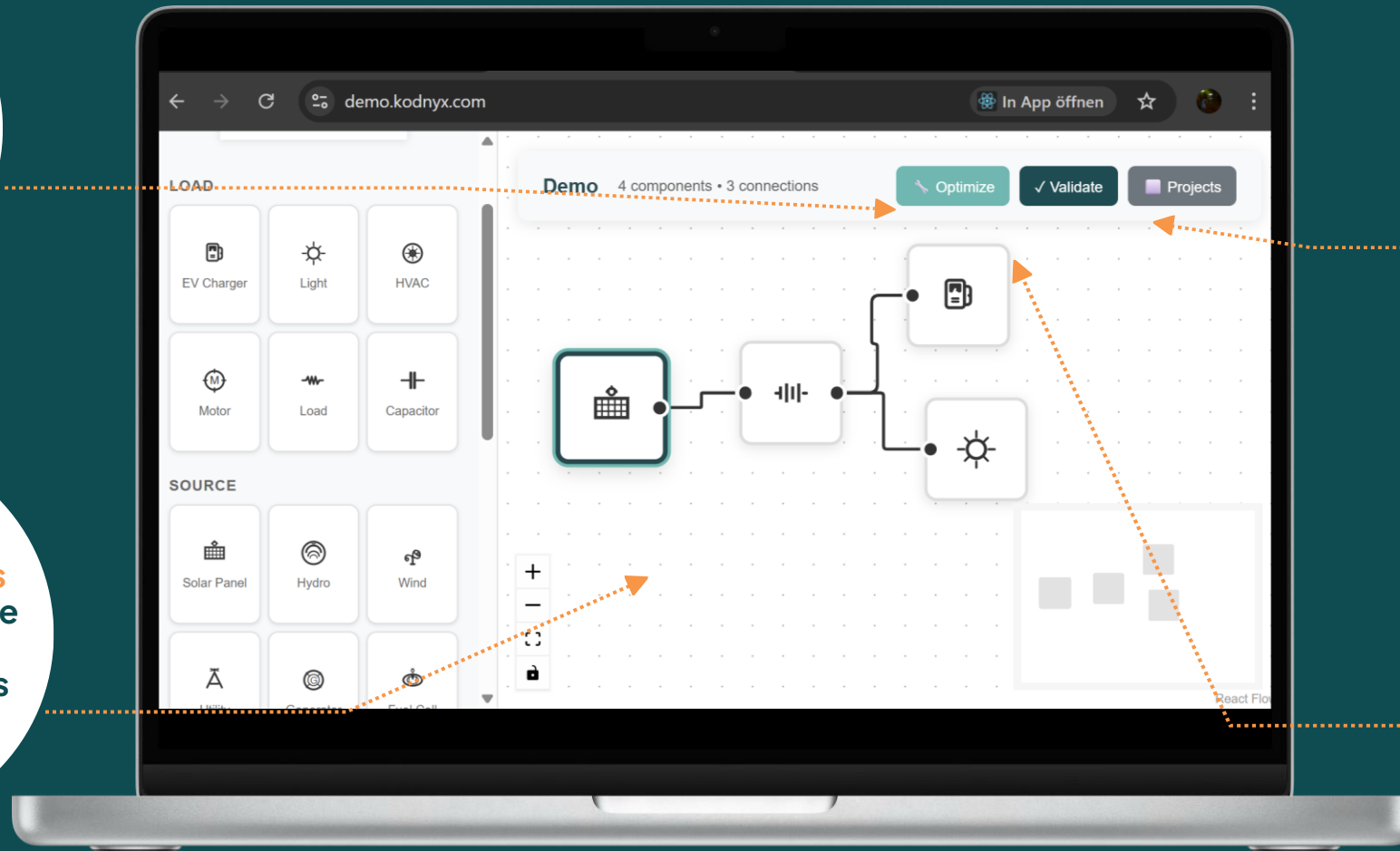
# Building and Defending a New Category in Energy Design Software

**Unique Differentiator**  
Only software integrating DC for cost optimisation

**Built-in Stickiness**  
Projects stay active and editable – driving continuous use

**Defensible IP**  
Control algorithms with the potential to become industry standard

**First mover advantage**  
Setting standards early in a fast-emerging DC market



# Three Pillars Driving Product Development & IP Creation

## Energy Efficiency Projects

Our product is co-developed and validated with the industry and Energy Efficiency Providers (EEPs)



## IP Generation

We generate proprietary DC control algorithms with leading research institutes



## Industry Associations

We help define DC standards and build strategic industry networks



# Energy Efficiency Projects Build the Foundation for Product Development

The projects validate the software in a real factory environment.

Analyse current  
energy system

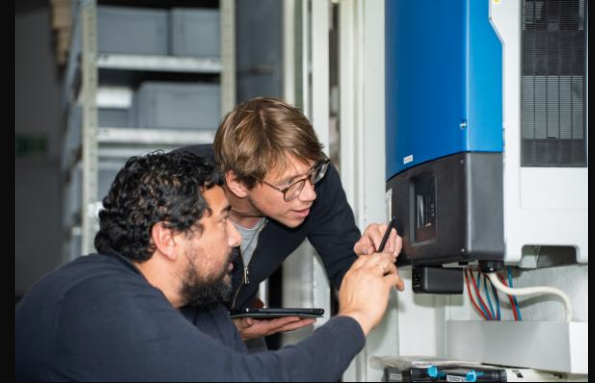
Model & simulate  
digital twin

Optimize design &  
quantify savings

Understand real customer workflows

Start manually, automate through insights gained

Co-develop product with early adopters and direct feedback



Hartig

One of our projects: Hartig GmbH & Co. KG (Aschaffenburg): High-precision instruments manufacturer



# Equipping Energy Efficiency Providers (EEPs) With a New Optimisation Dimension

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## Our Model

- Kodnyx sells SaaS to Energy Efficiency Providers (EEPs) — engineering firms that design energy systems for industrial customers.
- Our software adds a new optimisation dimension, helping EEPs win more projects.
- Industrial customers cut energy use and costs through EEPs using Kodnyx.



## Our Customers: EEPs

- EPCs (Engineer, Procurement, Construction)
- Energy Managers
- Energy Consultants
- Facility Managers



## Their Pain

- Design process is slow and tedious for DC and hybrid AC/DC architectures
- Requires many tools and expert knowledge
- Uncertain project wins despite heavy effort
- Compete mainly on price, little differentiation

# Validated by Projects. Scaled through SaaS

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## Phased go-to-market & revenue model

### Initial Phase: Project-based Revenue

Paid energy efficiency projects with per-project pricing to validate product and build customer base

### Scale Phase: SaaS Revenue

Seat-based B2B SaaS model with monthly/annual subscriptions

Tiered pricing for project scale and enterprise clients

“The industry often relies on custom-developed tools.”

SIEMENS

“We don't have tools to design DC.”

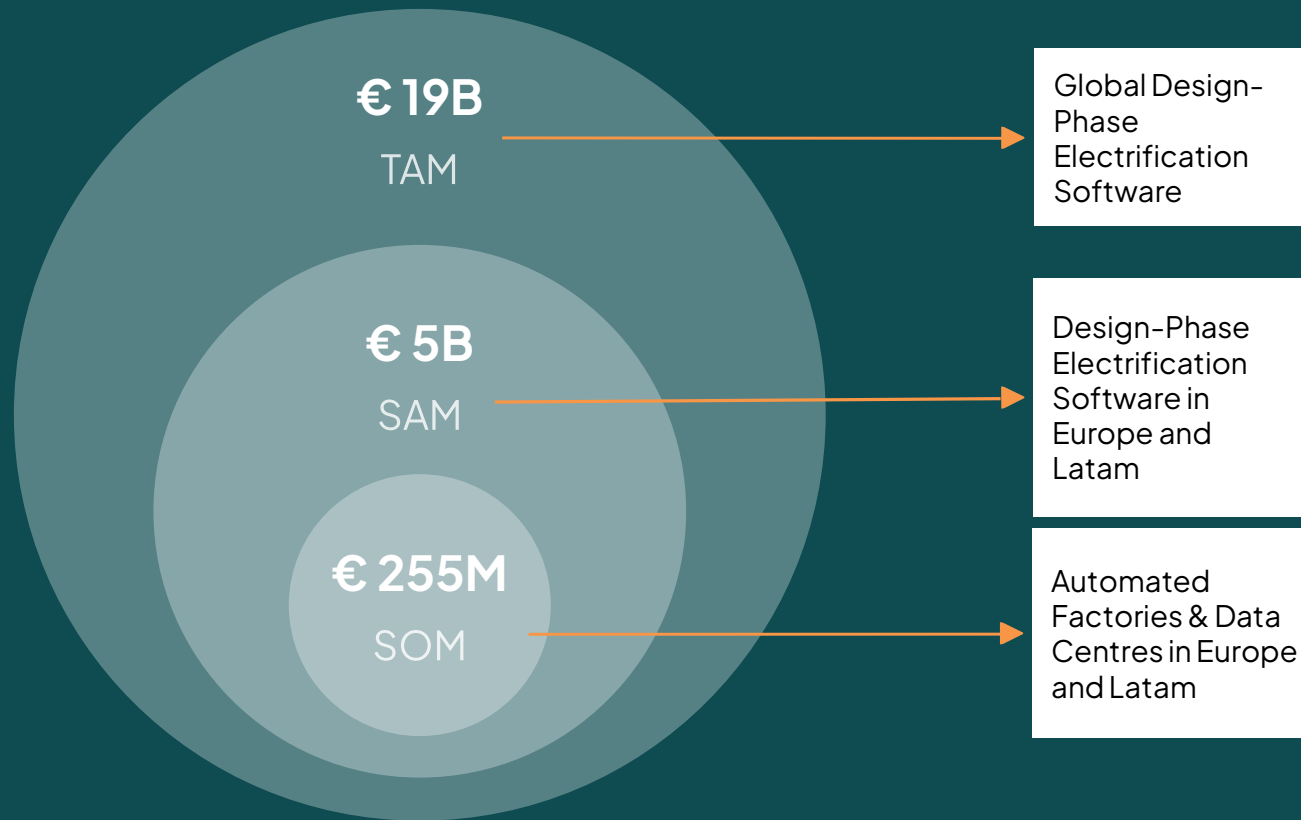
Jacobs

“There's no single software solution.”

Weidmüller 

# We Target €8.4M in Revenue in 2030 From a €19B Global Market Opportunity

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## 2030 Targets

**Serving 745 Clients**

**Capturing 3.2% of Market Share**

**in Europe & Latam**

**€ 8.4M ARR**

# We are Raising € 450k Pre-Seed Funding

Expected Closing: Q1-2026

Net Raising: €450,000

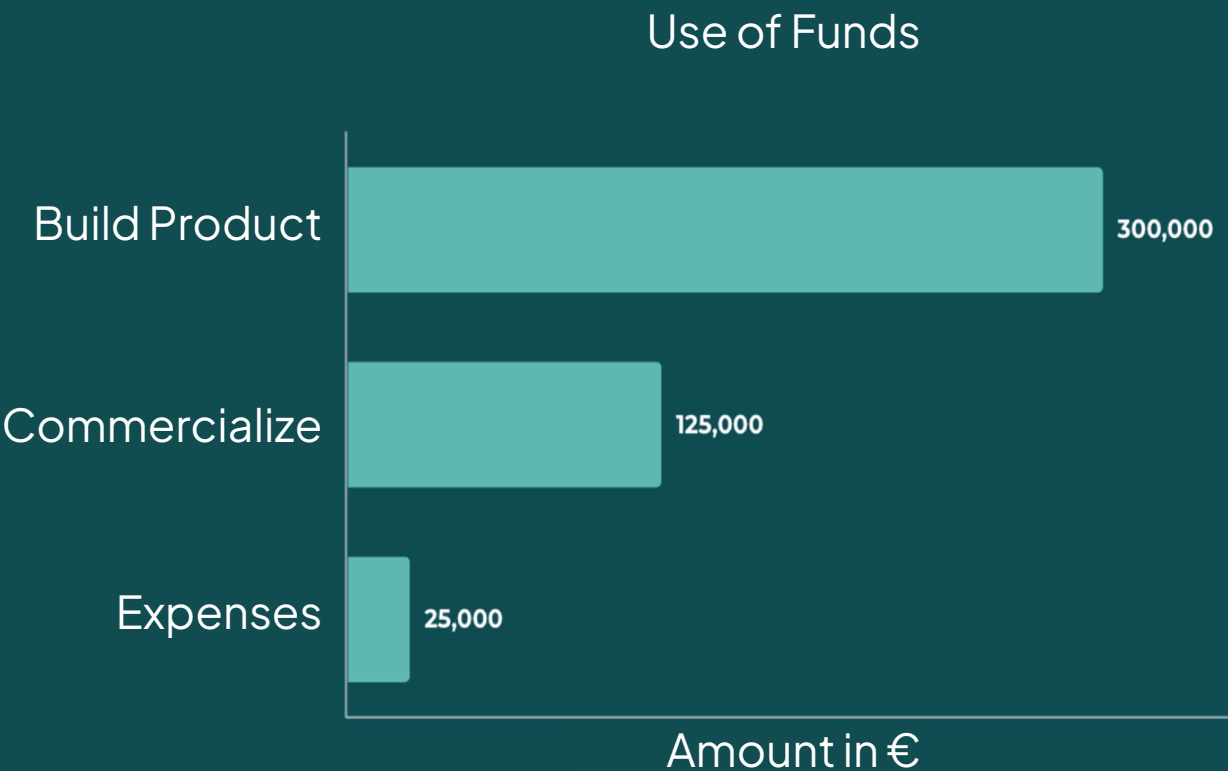
Build the MVP and Commercialise

Runway: 12 months

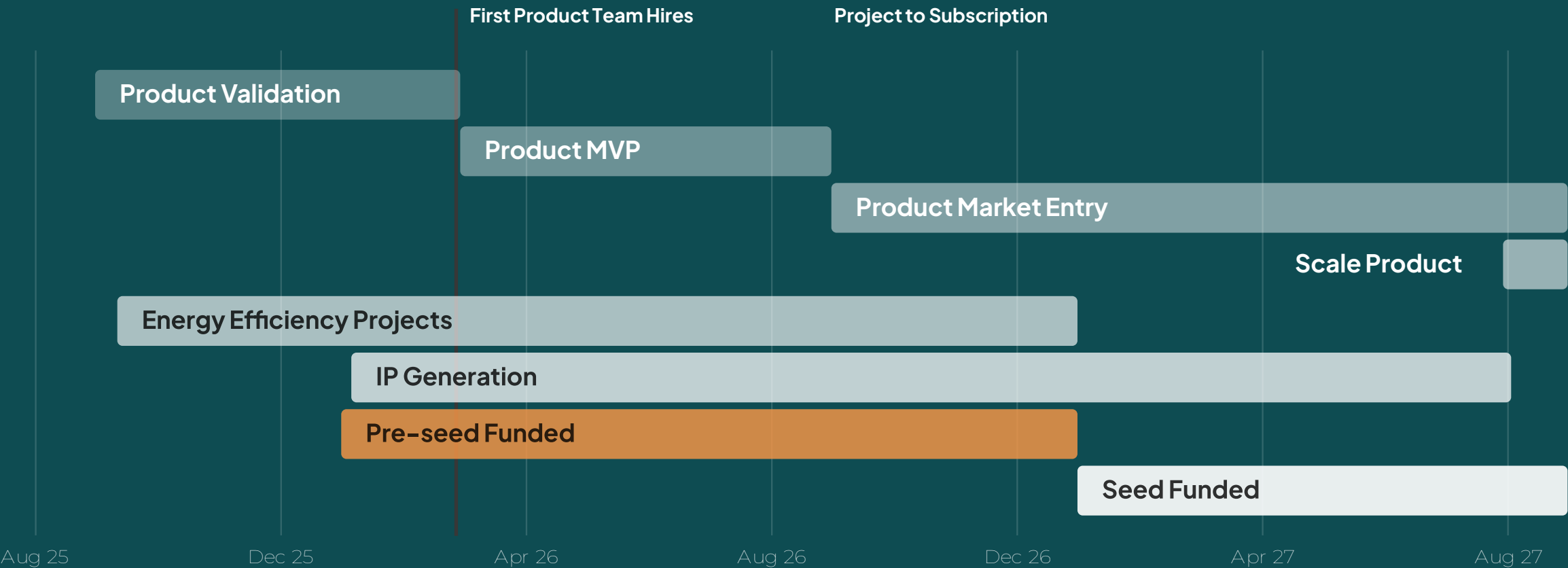
Seed round: € 1.5-2M, projected for 2027

**Targeted Source of Funding:**

Carbon 13, Angel, VC Round, Grants



# Our Product Roadmap: Generating Value Early by Co-Developing with Industry & Research Partners



# By Joining Kodnyx, Be a Direct Supporter of the UN Sustainable Development Goals

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Power Loss Savings of Up to 35%



Material Savings (such as Copper) of Up to 55%

# A Founding Team Bridging Energy, Project Finance & Technology



**Andrés Andrade, CEO**

MSc. Industrial Engineering

Industrial engineer & 2<sup>nd</sup> time founder with 15 years in global energy innovation & sustainability



**Duygu Çağman, CSFO**

MSc. Business Economics

Ex-ING & KfW-IPEX - originated and executed financings for sustainable infrastructure projects



**Dr. Kristoffer Möller, CTO**

PhD Economics

Scaled Flix's AI-driven network planning software from an early MVP to a full tech department



# Get In Touch With Us

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Duygu Çağman  
E-Mail

[www.kodnyx.com](http://www.kodnyx.com)



# Appendix

Kodnyx discovery from Interviews with  
Industry Experts, Research Institutions, and  
Sector Alliances.

# We Have Discovered Significant Interest and Saving Potentials in Industry Projects from Interviews

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Daimler and Volkswagen are interested in DC for "lighting purposes" to "boost our energy efficiency by a lot."



At a Daimler factory, "all production lines are converted to DC because they have robots."



"Data centres topic is very important currently with all AI topics."



"Schaltbau, they claim that they reduce peak power compared to AC based system by 85%."



For public lighting, in DC, "it's really like 75% of copper savings."



"The connection to AC grid is a big headache nowadays - in some places waiting time 5, 7 years, 10 years."



# We Have Discovered DC's Technical Feasibility and Upward Momentum from Interviews

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"Technically speaking it's totally feasible to build it. And it does exist."



"The technical part is solved already."



In marine segment, "people know what they are doing. They've been doing it for more than 10 years."



Big competitors (Schneider, ABB) talk to each other because "you should not compete each other on system level."



"Standards are being created."



"Develop standards for low voltage DC."



# We Have Discovered a Lack of Tools from Interviews

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"The industry often relies on custom-developed tools as there is no standard tool available."

**SIEMENS**

"We don't have tools to design the architecture of DC."

**Jacobs**

We "don't have a very structured tool right now" and often rely on "overqualified engineers to figure it out."



"A manageable tool can accelerate the widespread adoption of DC technology in the industry."

 **Fraunhofer**

"Some engineer has to come, has to check the existing system and has to check what is necessary to make this change. I don't think there is a software solution for that."



"There is always a place for a challenger or for a better tool on this market."

**Current** 