

# A Guide to Securing 'Industriklivet' Funding for Your Industrial Project in Sweden

A Framework for Low-Carbon Industrial Investment

**Content Partner: J. v. G. technology GmbH**

*Turnkey solar module production lines — since 1997*

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# Technical Overview: Securing 'Industriklivet' Funding for Swedish Industrial Projects



Created as part of the PVKnowHow Knowledge Network



Prepared by J.v.G. Technology GmbH



European specialists in turnkey solar module production lines

# Key Project Data

**2018**

## Program Launch

Industriklivet active since 2018, managed by the Swedish Energy Agency

**2045**

## Net-Zero Target

Sweden's parliamentary mandate to reach net-zero greenhouse gas emissions

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## Industry's Share

Swedish industrial sector accounts for one-third of national GHG emissions

**3**

## Focus Areas

Process emissions · Negative emissions · Strategic societal transition

📄 Program: Industriklivet · Country: Sweden · Focus: Low-carbon industrial investment · Eligible entity: Swedish legal entity · Funding model: Co-financing · Source: PVKnowHow / J.v.G. Technology GmbH

# What Is Industriklivet?

## Definition

- Long-term government grant program managed by the Swedish Energy Agency (Energimyndigheten)
- Supports Swedish industry's transition toward net-zero greenhouse gas emissions
- Provides funding for feasibility studies, research, pilot, demonstration, and commercial investment projects
- Part of the EU's Next Generation EU / Recovery and Resilience Facility

## Why It Matters

- Swedish industry currently accounts for one-third of national GHG emissions
- Government funding is designed to overcome the initial financial hurdles of green technology
- Program active since 2018 — hundreds of millions of SEK awarded annually
- Targets companies of all sizes, research institutes, and academic institutions

# Sweden's Industrial Transformation – Strategic Context



The Swedish Riksdag has established a binding national climate target of net-zero greenhouse gas emissions by 2045. Swedish industrial companies have the potential to become world leaders if they successfully adapt their operations – Industriklivet provides the financial architecture to make that transition viable.

# Three Focus Areas of Industriklivet

## Area 1 – Process Emission Reduction

- Targets reductions in direct greenhouse gas emissions from heavy industry
- Key sectors: iron and steel, chemicals, refineries
- Supports new low-emission or zero-emission production technologies

## Area 2 – Negative Emissions

- Funds carbon capture, transport, and geological storage (BECCS and equivalents)
- Supports first-of-a-kind demonstration and pilot projects
- Complements emission reduction – essential for net-zero by 2045

## Area 3 – Strategic Industrial Initiatives

- Supports commercially relevant projects with broad societal climate benefit
- Includes hydrogen production, battery manufacturing, biofuels, recycling
- New technologies applied at industrial scale to reduce downstream emissions

# Eligibility Criteria – Applicant and Project Requirements

Criterion	Applicant Requirements	Project Requirements
Legal Status	Must be a legal entity (company or economic association)	Investment and operations must take place in Sweden
Geography	Must operate or intend to operate in Sweden; international companies eligible via Swedish subsidiary	Project physically located within Swedish borders
Climate Impact	Demonstrated commitment to emission reduction	Significant and lasting GHG reduction – quantified with clear calculations
Technology	No prior manufacturing experience required in all cases	Must go beyond incremental improvement; new or first-of-kind technology preferred
Financial Viability	Must contribute own capital (co-financing model)	Credible long-term business plan required
Collaboration	Multi-organization partnerships actively encouraged	Project scope and partners clearly defined in application

# Co-Financing Model – How Funding Is Structured

## Grant Does Not Cover 100% of Costs

- Industriklivet is a co-financing program – applicants must contribute a significant portion of total investment
- Share of public funding varies by project type, innovation level, and company size
- Demonstrates commercial viability to the review committee

## Project Size Range

- Supports a wide spectrum: from small, highly innovative pilot projects to large-scale industrial installations
- Large-scale investments can reach hundreds of millions of euros in total project value
- Key metric: climate impact achieved relative to cost of public support

## What Grant Funds Can Cover

- Feasibility and pre-engineering studies
- Research, pilot, and demonstration phases
- Capital investment for commercial-scale deployment of new low-carbon technologies

# Application Process — Overview of Key Stages

- 1 — Project Concept Development**
  - Define climate impact, emission reduction potential (quantified), and technology rationale
  - Assess eligibility: Swedish legal entity, project location, co-financing capacity
- 2 — Feasibility Study (if required)**
  - Pre-engineering studies may themselves qualify for Industriklivet funding
  - Technical feasibility and business plan developed in parallel
- 3 — Formal Application Submission**
  - Submitted to the Swedish Energy Agency (Energimyndigheten) via open or targeted calls
  - Application includes: project plan, emission model, financial projections, partner agreements
- 4 — Assessment and Review**
  - Agency evaluates: emission reduction significance, technology innovation level, financial viability
  - Structured, transparent process designed to direct public funds to highest-impact projects
- 5 — Grant Decision and Project Execution**
  - Approved projects receive co-financing with reporting obligations throughout project lifecycle
  - Many projects have long timelines before realized emission reductions are fully measurable

# Assessment Criteria — What Evaluators Prioritize

## Primary Criteria

- **Emission Reduction Significance:** Substantial, lasting, quantifiable GHG reduction
- **Technological Innovation:** Beyond incremental improvements; first-of-kind applications preferred
- **Financial Credibility:** Long-term business plan must be robust and commercially plausible
- **Co-Financing Commitment:** Applicant must have vested financial stake in project success

## Supporting Factors

- Project location confirmed within Sweden
- Collaboration between multiple organizations viewed favorably
- Clear alignment with one of the three program focus areas
- Evidence that technology cannot be deployed without public support (market failure argument)

# Green Manufacturing as an Eligible Investment Category

## Qualifying Sectors

- Iron and steel (largest share of current funding)
- Chemical industry and refineries
- Hydrogen production, battery manufacturing, biofuels
- Recycling facilities and circular industrial processes

## Qualifying Project Types

- First commercial-scale deployment of a low-emission production technology
- Factory-level integration of renewable energy or fossil-free processes
- Proven turnkey manufacturing concepts adapted for the Swedish market
- Cross-sector supply chain decarbonization projects

## Strategic Value Recognized

- Government backing validates climate credentials of the investment
- Funding reduces financial risk — critical for first-mover projects
- Successful grant application signals credibility to private co-investors

# Long-Term Industrial Viability – Strategic Considerations

1

## Policy Anchor

Binding 2045 net-zero mandate creates long-term regulatory certainty – a durable foundation for industrial investment planning

2

## Financial Architecture

Co-financing model ensures applicants bear commercial risk – aligning public funding with projects that have credible long-term viability

3

## Market Entry Pathway

A proven turnkey manufacturing concept, combined with Industriklivet co-financing, reduces the learning curve and capital barrier for new industrial entrants in Sweden

- ❏ An experienced European turnkey provider with an established industrial methodology can significantly strengthen an Industriklivet application by demonstrating technical credibility and reducing execution risk.

# Laminator Selection Criteria

## Production Volume

- Medium-scale (25–100 MW/yr): semi-automatic provides balance of cost and output
- High-volume (>200 MW/yr): fully automated systems justify higher capex
- Throughput target determines number of laminator units required in line

## Material Compatibility

- Laminator must be configured for the target encapsulant (EVA, TPO, PVB)
- Module format (glass-backsheet vs. glass-glass) affects platen and vacuum configuration
- High-efficiency cell types (TOPCon, HJT) may require tighter temperature tolerances

## Energy & Budget

- Oil-heated platens offer high uniformity; electric heating offers faster response
- Multi-chamber designs (preheat + laminate + cure) increase throughput and energy efficiency
- Total cost of ownership includes maintenance, consumables (belts, membranes), and downtime

# About the Content Partner

## **J. v. G. technology GmbH** – The DESERT Company

Founded in 1997 in Bavaria, Germany. Family-owned engineering company specializing in turnkey solar module production lines.

More than 90 factory projects delivered worldwide.

On-site team training included – no prior manufacturing experience required.

### Key areas:

Turnkey PV manufacturing lines | DESERT Technology® |  
TÜV-certified module designs | Factory planning to production

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