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# INRESOL

# Stefan Larsson-Mastonstråle



- Lartec, Vattenfall, Maston
- Inresol Group
  - 1983, 2008, 2012, 2013, 2017
- Solarus
- Stocksbro Energy
- Sunthetics
- Efficax Energy
- Peak Eco
- Solgården – Plus energy house
- SusAnne & Riesenschnauzers
- Kids and grand kids
- Harley Davidson
- The Internet



# Vision, Mission and business model

- ▶ To be synonymous with Swedish quality and engineering, by enabling renewable energy, anytime, anywhere!
- ▶ To sell high functionally Stirling engines in high volume, to all markets.
- ▶ Manufacture, know-how, hardware/software, patents, sustainability x 3.  
Sell through distributors, resellers and retailers – on a global scale.





# Strength through collaboration



## Organisation

- ▶ P Production
- ▶ S Production
- ▶ Engineering team
- ▶ R&D plus test team
- ▶ Sales and Support
- ▶ Management
- ▶ Sourcing & Quality
  - ▶ In India & Sweden

## Partnership

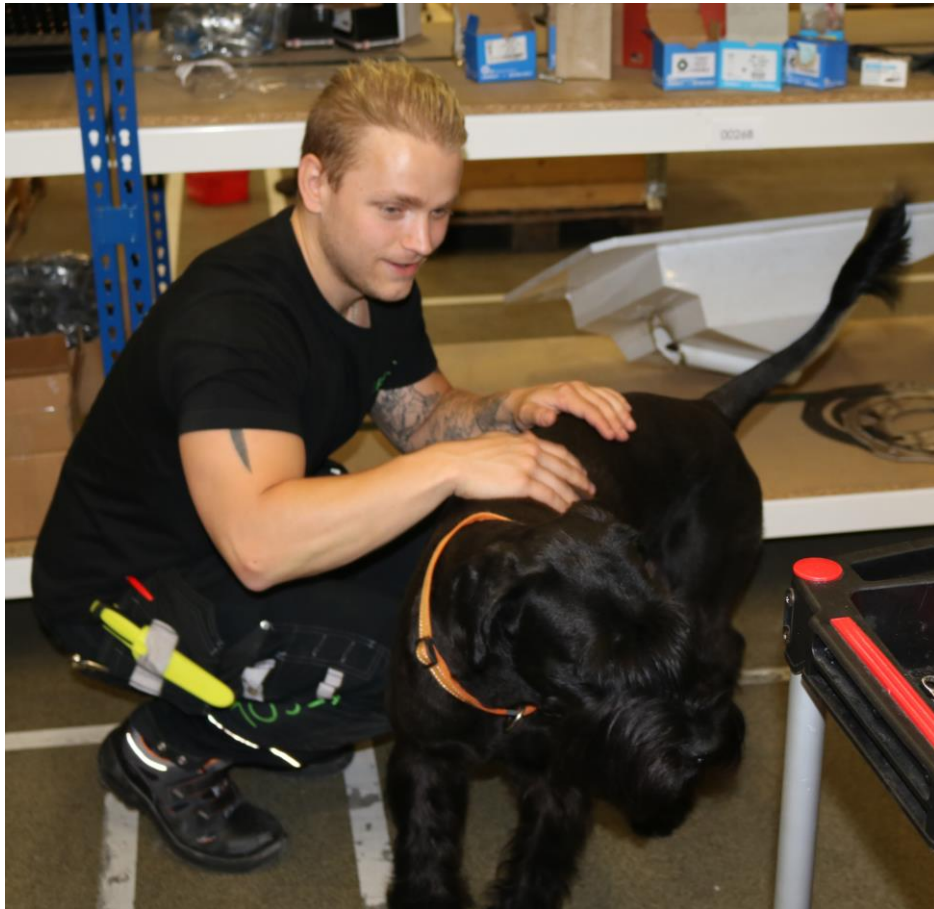
- ▶ Sandvik
- ▶ Trelleborg
- ▶ Höganäs
- ▶ SKF
- ▶ Future electronics
- ▶ Godrej / Lawkim
- ▶ Honeywell
- ▶ Cloud Industri

## Academics

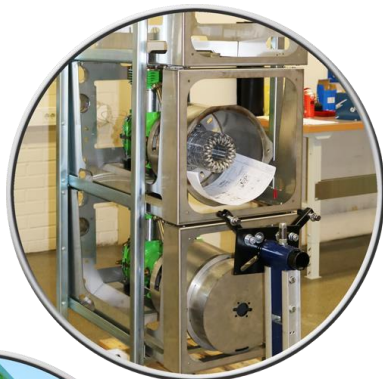
- ▶ KTH – Stirling tech
- ▶ LTH – Stirling tech
- ▶ Luleå U – Power Q
- ▶ Dalarna U – Energy storage
- ▶ HIG – H Lean & globalization
- ▶ IIT Mumbai – Stirling tech
- ▶ UN Mexico – System tech
- ▶ MITT Lunicum stiftelsen



# Internal unique competences



- ▶ Mechanics
- ▶ Power electronics
- ▶ Embedded systems
- ▶ Simulation & test
- ▶ Combustion chemistry
- ▶ Heat transfer
- ▶ Design, development, patents
- ▶ Culture & language
- ▶ Social, Safety & Security





# Outcome of cooperation with academia

## HIG

- ▶ Melacs – Solar test rigg
- ▶ Solar lab concept – Mozambique no.1
- ▶ Solar hybrid installation – Solarus, Gävle energi
- ▶ Soltracker - construction, durability
- ▶ Logistics – yearly
- ▶ Human Lean course
- ▶ Human Lean research
- ▶ SIMIS (JV) globalization
- ▶ RESBE Forskaraskola



## University world wide

- ▶ Research
- ▶ Publications
- ▶ Employees
  - ▶ Kaviresh (KTH/Mumbai)
  - ▶ Balachander (KTH/Bangalore)
  - ▶ Alexander (Sandbacka/Sandviken)
    - ▶ Joao (CERN/Lissabon)
    - ▶ Christophe (Albi/Albi)
    - ▶ Eva (HIG/Stuttgart)
    - ▶ Maidur (HIG/Bangladesh)
    - ▶ Audrius (HIG/Mackintosh)
    - ▶ Linkesh (KTH/Amrita)



# Why coop with academia

## We strive to

- ▶ Teach the world about us
- ▶ Support internal resources
- ▶ Show our openness to others
- ▶ Seek high potentials to employ
- ▶ Enhance our brand
- ▶ Empower others to dare
- ▶ Save the world by,

enabling renewable energy.  
Anytime. Anywhere!

## We learn how to

- ▶ See it from a new perspective
- ▶ Present it in a proper way
- ▶ Reach beyond our network
- ▶ Be a better employer
- ▶ Share and receive
- ▶ Set relevant requirements
- ▶ Prove our technology