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KULTUR UND TOURISMUS



Freistaat  
**SACHSEN**

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# Saksa Kevad 2023

Estonia and Saxony – on the way forward to Clean Energy, 2 May 2023, Tallinn/EE

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List of networking/matchmaking presentations. More information about the event at:

Võrgustiku networking/matchmaking esitluste loend. Täpsem info ürituse kohta aadressil:

Auflistung der Präsentationen des Networking/Matchmaking. Weitere Informationen zur Veranstaltung unter:

[Estonia and Saxony – on the way forward to Clean Energy](#)



# 1. Agenda

1. Implementation of Estonian energy policy, fulfilling the World Energy Council's trilemma balance – **Dr. Arvi Hamburg**, Chairman of the Energy Committee of the Estonian Academy of Sciences (Estonia)
2. Induction heating technology – **Anja Rautenstrauch**, University of Technology, Chemnitz (Saxony)
3. Applied Power Electronics in Estonia – **Prof. Dmitri Vinnikov**, Tallinn University of Technology (Estonia)
4. Engineering and production of high voltage and high current test systems – **Patrick Jansen**, HIGHVOLT Prüftechnik GmbH (Saxony)
5. Smart energy communities/microgrids – future of power system – **Prof. Argo Rosin**, Tallinn University of Technology (Estonia)
6. Development of Green Energy Technology Devices in University of Tartu – **Prof. Enn Lust**, University of Tartu, Estonian Academy of Sciences (Estonia)
7. Building on cutting-edge materials and laser technology, Energy efficiency in Buildings Technology, Energy and storage systems, Design Lab for Applied Research – **Prof. Dr.-Ing. Christoph Leyens**, Fraunhofer Institute for Material and Beam Technology IWS, (Saxony)
8. Producer Semi-Finished Products: Clad strip, Thermostatic Bimetal Metal strip, Metal foil – **Mr. Andreas Handschütz**, Auerhammer Metallwerk GmbH (Saxony)
9. Industrialization of solid oxide core technology in Estonia – **Martin Skov Skjoeth-Rasmussen**, Elcogen AS (Estonia)
10. Chemical and Galvanic Surface Engineering. Thermal Coating Technologies. Material Design and Analysis. Human-Cyber-Physical Systems – **Dr. Thomas Lindner**, University of Technology, Chemnitz (Saxony)
11. Rethinking alkaline electrolyzers for lowest cost green hydrogen production – **Dr. Jan Gustav Grolig**, Stargate Hydrogen Solutions OÜ (Estonia)
12. The best of both worlds: combining Estonia and Saxony's expertise to develop and produce clean technologies made in Europe – **Arnaud Castaignet**, Skeleton Technologies (Estonia)
13. Applied R&D on the material and energetic use of biomass, guided by the SDGs. How can biomass best contribute to a bio-economy & to an entirely renewable energy system? – **Karen Deprie**, DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH (Saxony)
14. The Solar Roof Company – **Janari Võrk**, Solarstone OÜ (Estonia)
15. Empowering Consumers to Power the World – **Tarvo Õng**, Fusebox Energy (Estonia)

**1. Implementation of Estonian energy policy, fulfilling the  
World Energy Council's trilemma balance –  
Dr. Arvi Hamburg, Chairman of the Energy Committee of the  
Estonian Academy of Sciences (Estonia)**

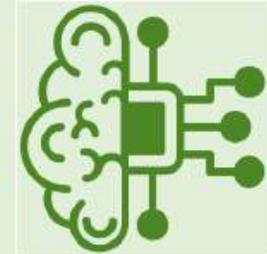
# 1. About us



Arvi Hamburg  
Implementation of  
Estonian energy policy,  
fulfilling the World Energy  
Council's trilemma  
balance.



Chairman of the Energy  
Committee of the Estonian  
Academy of Sciences



Energy policy- World  
Energy Trilemma  
\* Power system balance  
\* Security of electricity  
supply

## 2. What we are looking for

### *1. World Energy Trilemma Indeks:*

- Energy security - Ensuring the energy demand of consumers in normal situations, with minimal disturbances in crisis situations;*
- Energy equity - Ensuring electricity for consumers at an affordable price;*
- Environmental sustainability- Carbon footprint of the entire electricity generation process;*

### *2. Balancing a power system with weather-dependent power generation.*

*Possible partners:*

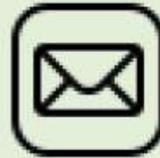
*WEC German National Committee,*

*Energy commissions of the Academy of Sciences, working groups of research institutions.*

# 3. How to contact us



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arvi.hamburg@ttu.ee



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**2. Induction heating technology –  
Anja Rautenstrauch, University of Technology, Chemnitz  
(Saxony)**

# 1. About us

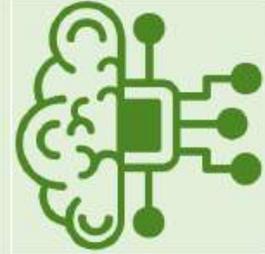


Dr.-Ing. Dipl.-Wi.-Ing.  
Anja Rautenstrauch



Forming department  
Professorship for Forming  
and Joining

**Chemnitz University of  
Technology**



Induction heating  
technology

## 2. What we are looking for

*Innovative method for generating hot gas for CO<sub>2</sub>-neutral heating of industrial production processes*

### **Objective:**

*Substitution of current heating processes based on fossil fuel gases by the generation of ultra-hot air through the inductively heated susceptor materials*

### **Development focus:**

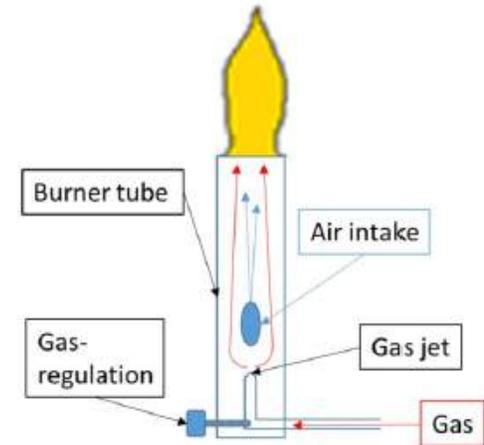
- *Susceptor selection (Novel and innovative combinations of materials)*
- *Porosity of the susceptor material*
- *Selection of the gaseous medium (air, nitrogen...)*

**- patent pending -**

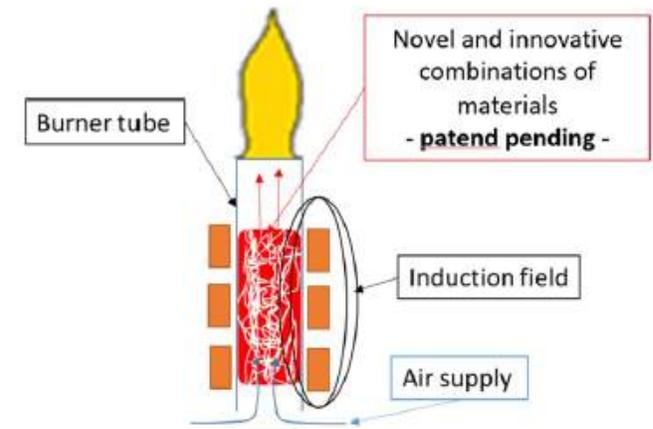
### **Application:**

*Industrial heating processes in the field: preheating of different components, soldering, ....*

**Conventional burner technology** based on fossil fuels



**Innovative burner technology** based on renewable energy



# 3. How to contact us



<http://www.tu-chemnitz.de/mb/UFF>



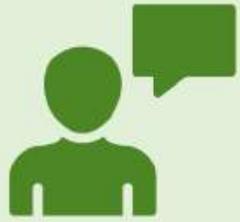
[anja.rautenstrauch@mb.tu-chemnitz.de](mailto:anja.rautenstrauch@mb.tu-chemnitz.de)



+49 (0)371 531-37327

**3. Applied Power Electronics in Estonia –  
Prof. Dmitri Vinnikov, Tallinn University of Technology  
(Estonia)**

# 1. About us



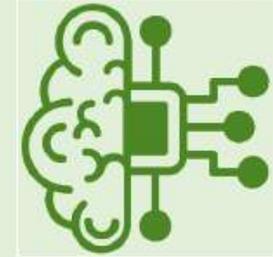
## Dmitri Vinnikov

Dr. Sc. techn., IEEE Fellow  
Full member of the  
Estonian Academy of  
Sciences



## Power Electronics Group

Dept. of Electrical Power  
Engineering and  
Mechatronics,  
School of Engineering,  
Tallinn University of  
Technology (TalTech)



## Applied power electronics

incl. design, development  
and validation of advanced  
power electronic systems  
for renewable energy,  
sustainable mobility and  
energy-efficient homes

## 2. Renewable Energy Systems

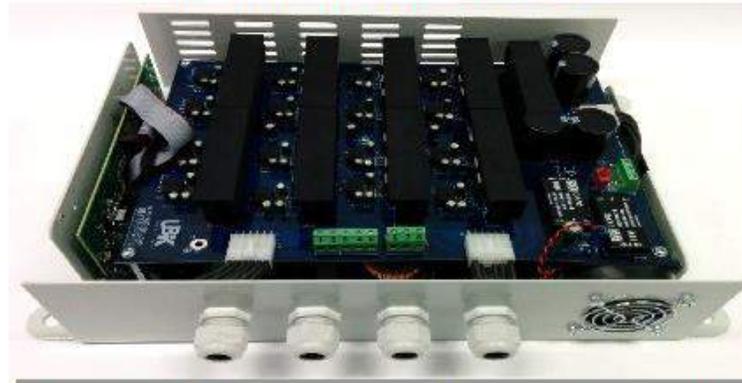
- TalTech PEG works on the cutting edge of the latest advances in the topic of high-performance photovoltaic (PV) converters, incl. string inverters and PV module-level power electronics. Interface converters for fuel-cells, batteries, supercaps, electrolyzers, etc.
- Over 10 Patents and Utility Models; US patent on advanced DC-DC converter and control is currently commercialized as OptiVerter® - first in the world hybrid of PV power optimizer and microinverter
- Joint product development with Estonian cleantech start-up companies Ubik Solutions, Sunly and MicroMasch Eesti OÜ

*OPTIVERTER® - Smart Grid Ready  
Shade-Tolerant PV Microinverter*



- Input 8...60 VDC, output: 230 VAC, 50 Hz, 350 W
- Compatibility with different types of PV modules
- Global MPPT, ultimate shade-tolerant performance
- Wi-Fi based integrated communication gateway (IEEE 802.11 b/g/n)

*Smart Grid Ready "Full-SiC" PV String Inverter  
with Ancillary Services Support*



- Input: 300...800 VDC, output: 400 VAC, 50 Hz, 3.5 kW
- "Full-SiC" design, switching frequency 100 kHz
- On-Grid and Off-Grid operating modes
- Enhanced power quality control algorithms
- Converterless integration possibility of battery storages

*Power Conditioning Unit for  
Fuel Cell Back-Up Power Systems*

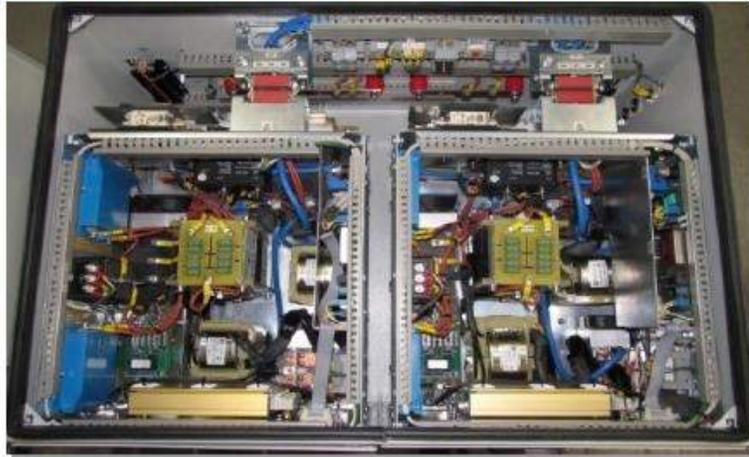


- Input: 35...64 VDC, output: 400 VAC, 50 Hz, 10 kW
- Modular design, interleaving control of cells
- On-Grid and Off-Grid operating modes
- Enhanced power quality control algorithms
- Converterless integration possibility of battery storages

# 3. Electromobility

- Traction and auxiliary converters for light rail vehicles (trams), electric and diesel-electric locomotives and/or trains
- Fast and opportunity charging systems for electric vehicles (EV)
- Stationary battery energy storage systems
- Wide patent portfolio, joint product development with Estonian companies TET-ESTEL AS and MicroMasch Eesti OÜ

*10 kW Rolling Stock Auxiliary Power Converter APC-10-1.5k*

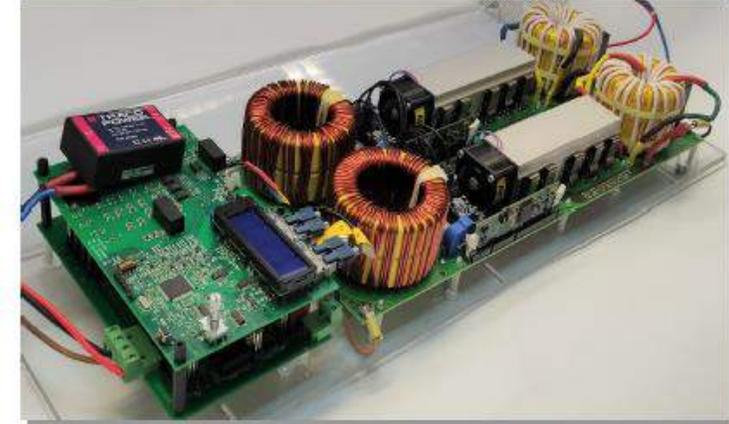


- Microprocessor control and self-diagnostic system
- Modular design for quick repair and maintenance
  - Energy saving control algorithms
  - Enhanced reliability and fault tolerance

*160 kW Traction Converter TVM1 for Light Rail Vehicles*



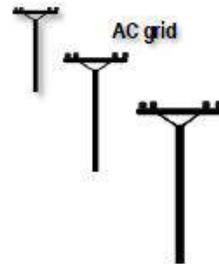
*5 kW Electrolytic Capacitorless EV Battery Charger*



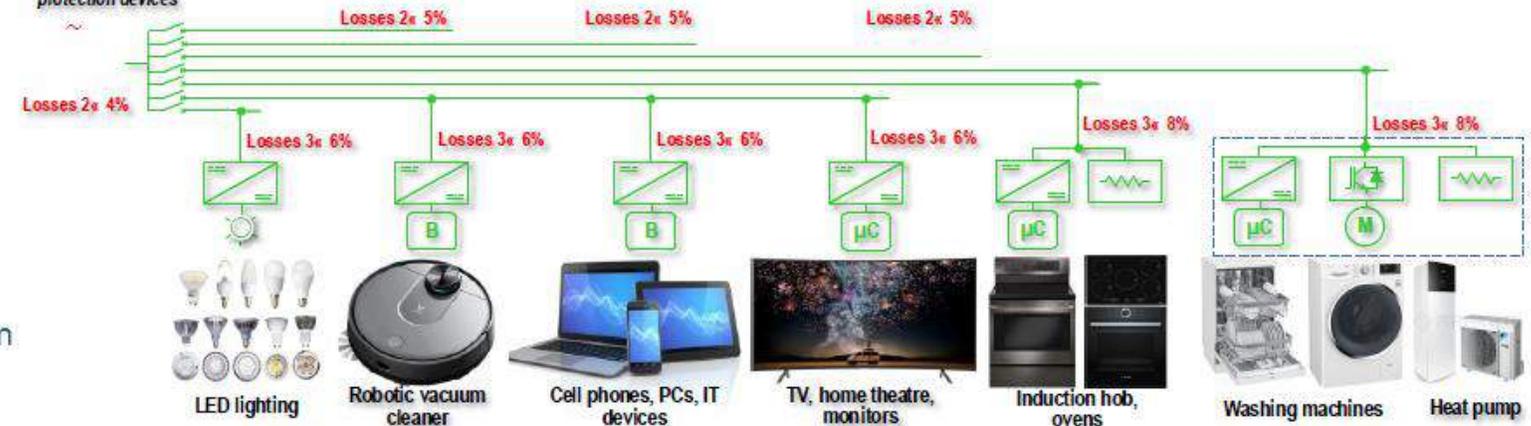
- Input: 3x400 VAC, 50 Hz; output: 330...470 VDC
- Modular design with high-frequency isolation
- No grid filter and bulky DC-link capacitors
- Enhanced power quality control algorithms
- Simplified control with reduced number of sensors

# 4. Energy Efficient Homes

- Application of direct current (DC) power distribution concept for energy efficiency enhancement of buildings
- Highly reliable cost-optimal power electronic systems for DC integration of residential PV, battery energy storages and EVs
- Safe and secure control of residential DC microgrids, power trading between the building and utility grid
- Widening the awareness and acceleration of the industrial uptake of the residential DC microgrid technology (*i<sup>3</sup>DC* initiative)



Distribution panelboard  
AFE with PFC and  
protection devices



**i<sup>3</sup> DC**  
Accelerates Energy Transition

## 5. What we are looking for

- *Joint submission of EU/national/regional funding applications*
- *Co-supervision of PhD students and postdocs*
- *Joint organization of matchmaking events for industrial companies and start-ups for dissemination of research findings and initiation of applied research and joint product development*
- *Joint organization of IEEE conferences and workshops*
- *Joint participation in the international working groups and other professional activities (i.e., preparation of international guidelines and transfer of good practices into other countries)*

## 6. How to contact us



[https://taltech.ee/  
en/power-electronics-  
research-group](https://taltech.ee/en/power-electronics-research-group)



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www.linkedin.com/  
company/peg-taltech](https://www.linkedin.com/company/peg-taltech)



[dmitri.vinnikov@taltech.ee](mailto:dmitri.vinnikov@taltech.ee)



(+372) 51907446

4. Engineering and production of high voltage and high current test systems –  
**Patrick Jansen, HIGHVOLT Prüftechnik GmbH (Saxony)**

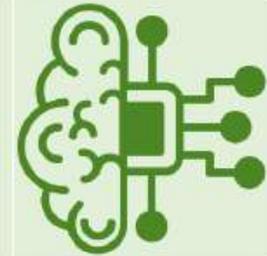
# 1. About us



Patrick Jansen  
Area Sales Manager



HIGHVOLT Prüftechnik  
Dresden GmbH



Engineering and  
production of high voltage  
and high current test  
systems

## 2. What we are looking for

- Exchange with manufacturers to evaluate the current R&D needs in order to offer the most suitable test solutions
- Potential customers in need of test systems to ensure flawlessly working power grid equipment, for example for:
  - 66 kV Wind Farm Array Cables Off-shore or On-shore (WRV Off-shore)
  - MV transformers in wind turbines (on-site AC test system with static frequency converter, e.g. type WV 18-18/1.4)
  - MV and HV cables after installation (AC voltage test system with variable frequency, e.g. type WRV 83/260 T)

# 2.1 Example WRV off-shore

- Test voltage:  
up to 80 kV
- Test current:  
up to 50 A (1 reactor)
- Test power:  
7000 kVA (at 50 Hz)
- Test frequency:  
20...300 Hz



## 2.2 Example WV 18-18/1.4

- Test voltage:  
up to 1380 V
- Test current:  
up to 17 A
- Test power:  
18 kW / 18 kVA
- Test frequency:  
200 Hz



## 2.3 Example WRV 83/260

- Test voltage:  
up to 260 kV
- Test current:  
up to 83 A
- Parallel and series connections  
possible to increase test power  
and test voltage



# 3. How to contact us



<https://www.highvolt.de/en/>



[sales@highvolt.com](mailto:sales@highvolt.com)



+49 351 8425 700

## 5. Smart energy communities/microgrids – future of power system –

**Prof. Argo Rosin, Tallinn University of Technology (Estonia)**

# 1. About us



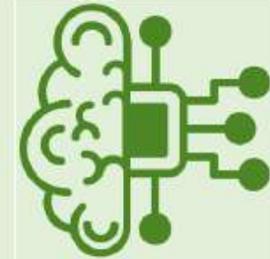
Argo Rosin

Doctor of Science in  
Engineering



Department of Electrical  
Power Engineering and  
Mechatronics

Tallinn University of  
Technology



Microgrids

Energy communities  
Energy flexibility  
AI in power systems  
Lighting technologies

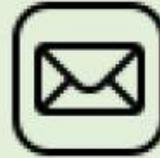
## 2. What we are looking for

- **Smart energy communities/microgrids – future of power system**
- Joint research in the domains of
  - ✓ Methods to improve **energy flexibility and power quality in energy positive districts/communities**
  - ✓ **AI based solution to improve planning of microgrids** with high share of renewables and quantification of energy flexibility on demand side
  - ✓ **Optimization the operation of microgrids** with integrated renewables, energy storages (ES), EVs, smart streetlighting solutions, e.g. optimization the use of municipal distribution network.
  - ✓ **Novel self-sustainable energy systems and business models for Green Energy Communities.** New business models for all parties (companies, energy communities, municipalities) connected through underlying infrastructure
  - ✓ **Interdisciplinary Micorgrids (Pilot) Projects:** „Renewable Energy, Energy Storages, Demand Side Flexibility, AI, Smart Grids and Microgrids, Street Lighting Networks and ...“

# 3. How to contact us



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**6. Development of Green Energy Technology Devices in  
University of Tartu –  
Prof. Enn Lust, University of Tartu, Estonian Academy of  
Sciences (Estonia)**

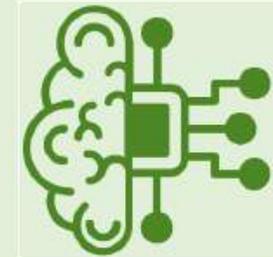
# 1. About us



*Professor of physical  
chemistry Enn Lust*



*Univesrity of Tartu;  
Institute of Chemistry,  
Chair of Physical Chemisrty*



*Physical Electrochemisrty;  
Materials Science;  
Systainable green  
hydrogen energy  
technology*

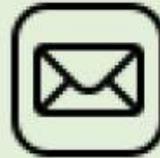
## 2. What we are looking for

- *Micro-mesoporous carbons for ionic liquid based supercapacitors;*
- *Na-ion and Zn-ion batteries;*
- *Thin-film complex metal hydrides for hydrogen storage;*
- *Low Pt-metal content and Pt-metals free polymer electrolyte fuel cells;*
- *Medium-temperature solid oxide fuel cells and electrolysis cells;*
- *Novel operando electrochemical synchrotron radiation and neutron scattering methods for detailed studies of catalysts.*

# 3. How to contact us



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+372 5112030

7. Building on cutting-edge materials and laser technology, Energy efficiency in Buildings Technology, Energy and storage systems, Design Lab for Applied Research –  
**Prof. Dr.-Ing. Christoph Leyens**, Fraunhofer Institute for Material and Beam Technology IWS, (Saxony)

# 1. About us



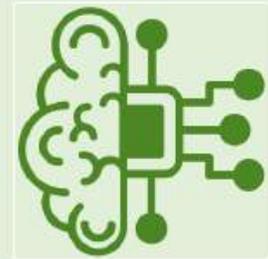
Prof. Dr. C. Leyens  
(Fraunhofer IWS)

Prof. Dr. M. Klingner  
(Fraunhofer IVI)



Fraunhofer Institute  
for Material and Beam  
Technology IWS

Fraunhofer Institute  
for Transportation and  
Infrastructure Systems IVI



Building on cutting-edge  
materials and laser  
technology, Energy  
efficiency in Buildings  
Technology, Energy and  
storage systems , Design  
Lab for Applied Research

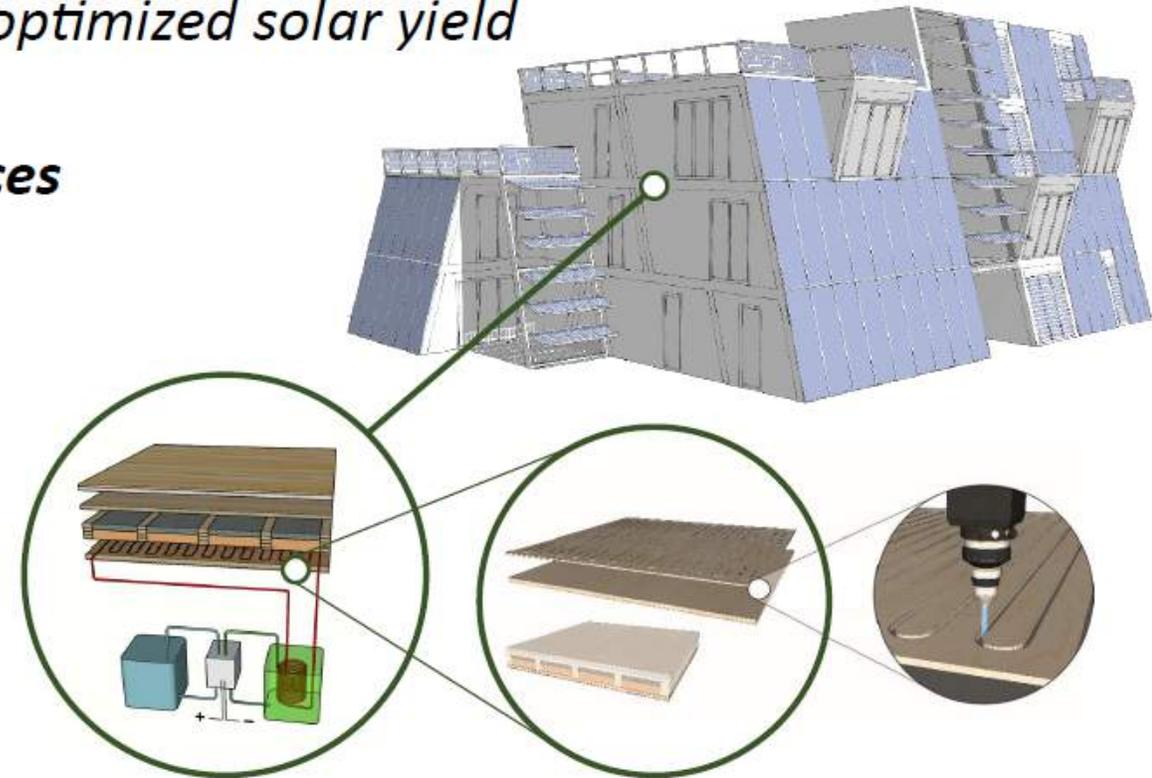
## 2. What we are looking for

*Our aim:*

- ***polymorphous construction elements with optimized solar yield***
- ***large area wood laminate heat exchangers***
- ***power grid stabilizing through energy services***

*We are looking for:*

- ***Timber based manufacturing***
- ***Energy storage systems***
- ***Buildings energy management control***
- ***Heat pump technologies***

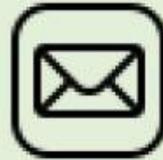


# 3. How to contact us



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8. Producer Semi-Finished Products: Clad strip,  
Thermostatic Bimetal Metal strip, Metal foil –  
**Mr. Andreas Handschütz**, Auerhammer Metallwerk GmbH  
(Saxony)

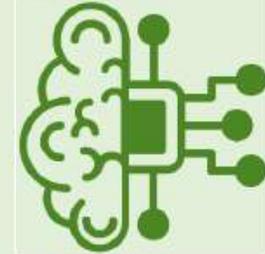
# 1. About us



Andreas Handschütz



Auerhammer Metallwerk  
GmbH



Producer Semi-Finished  
Products:  
Clad strip  
Thermostatic Bimetal  
Metal strip  
Metal foil

## 2. What we are looking for

- *Cooperation in the fields of energy storage, fuel cells/hydrogen technologies and renewable energy*
- *Projects with universities/research institutes*
- *Clad Materials: beneficial new properties*
  - *Invar/Cu, Ni/Steel/Ni,*
- *Metal strips: Ni-, CuNi- and NiCu-Alloys*
- *Metal Foils: miniaturization – Foils with 2,5  $\mu\text{m}$  thickness*
  - *Steel, Ni, Cu, Refractory Metals, Ti, Brazes*

# 3. How to contact us



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



[andreas.handschuetz@auerhammer.com](mailto:andreas.handschuetz@auerhammer.com)



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## 9. Industrialization of solid oxide core technology in Estonia

—

**Martin Skov Skjoeth-Rasmussen, Elcogen AS (Estonia)**

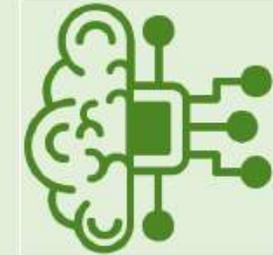
# 1. About us



Elcogen AS  
Martin Skjøth-Rasmussen  
CTO



*Elcogen AS  
Valukoja 23, Tallinn  
Estonia*



*Developer and  
manufacture of core  
components to Solid Oxide  
Electrolysis Technology  
and Solid Oxide Fuel Cell  
Technology*

## 2. What we are looking for

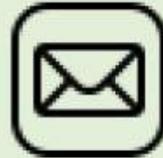
Elcogen is a developer and manufacturer of Solid Oxide (SOC) cell and stack technology – the most efficient solution to green hydrogen and emission-free clean power generation. We are looking for partners, for further development of SOC technology:

- Raw material suppliers;
- Companies to cooperate in technology industrialization (equipment and software developers);
- Green hydrogen system developers and operators/end-users, to integrate our technology (cells, stacks and modules).

# 3. How to contact us



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



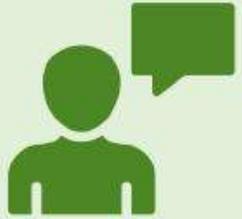
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+45 2275 4422

**10.** Chemical and Galvanic Surface Engineering. Thermal Coating Technologies. Material Design and Analysis. Human-Cyber-Physical Systems –  
**Dr. Thomas Lindner**, University of Technology, Chemnitz (Saxony)

# 1. About us



Thomas Lindner  
*Head of Department Thermal  
Coating Technologies*

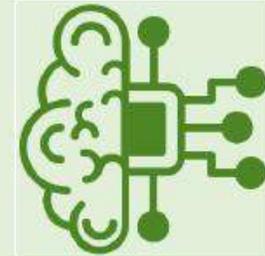


Chemnitz University  
of Technology



*Materials and Surface  
Engineering*

D-09107 Chemnitz



Chemical and Galvanic Surface Engineering

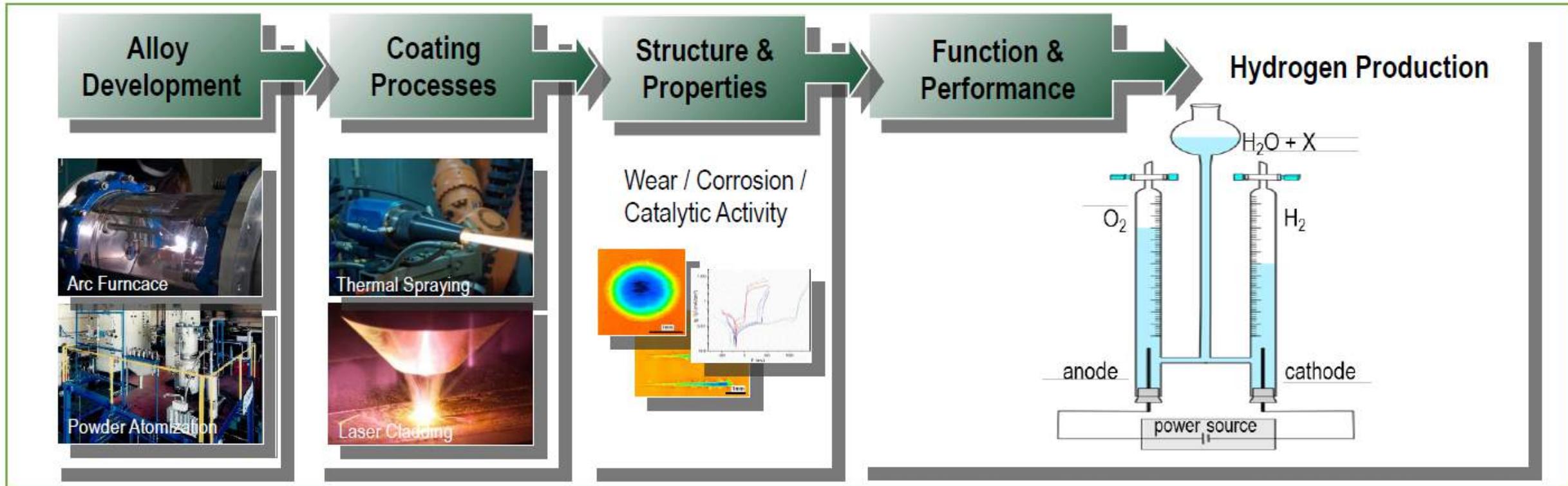
Thermal  
Coating  
Technologies



Material  
Design and  
Analysis

Human-Cyber-Physical Systems

## 2. What we are looking for



# 3. How to contact us



2015  
UNIVERSITY OF TECHNOLOGY  
IN THE EUROPEAN CAPITAL OF CULTURE  
CHEMNITZ



th.lindner@mb.tu-chemnitz.de



+49 371 53138287



**11. Rethinking alkaline electrolyzers for lowest cost green hydrogen production –  
Dr. Jan Gustav Grolig, Stargate Hydrogen Solutions OÜ  
(Estonia)**

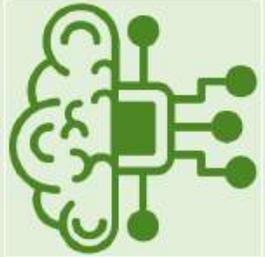
# 1. About us



Dr. Jan Gustav Grolig  
Chief Operations Officer



Stargate Hydrogen



Electrolyser development  
and manufacturing

# 2. What we are doing



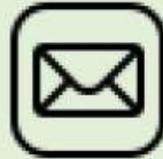
# 3. What we are looking for

- Partners for
  - Installation/Demonstration projects
  - Scaling up
  - R&D
- Suppliers for components
- Locations for expansion

## 4. How to contact us



[stargatehydrogen.com](https://stargatehydrogen.com)



[jan.grolig@stargatehydrogen.com](mailto:jan.grolig@stargatehydrogen.com)



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**12.** The best of both worlds: combining Estonia and Saxony's expertise to develop and produce clean technologies made in Europe –  
**Arnaud Castagnet, Skeleton Technologies (Estonia)**

# Skeleton Technologies – The High Power Energy Storage Company

Combining German engineering & Estonian IT

STAATSMINISTERIUM  
FÜR WISSENSCHAFT  
KULTUR UND TOURISMUS



- + Global technology leader in high power energy storage
- + **Unique technology & product roadmap with Curved Graphene**, protected by more than **30 granted/pending patent families**
- + **German engineering with Estonian innovation** and intellectual property
- + World-class team of **330+ professionals** with vast experience in energy storage development & production



## Our locations



**Großröhrsdorf, Germany**

- + The largest supercapacitor factory in Europe, IATF-certified



**Markranstädt, Germany**

- + The largest and most modern supercapacitor factory in the world, start of production in 2024



**Bitterfeld-Wolfen, Germany**

- + Curved Graphene synthesis and production



**Tallinn, Estonia**

- + Electronics, software, Sales, C-level

**Raw Material**  
Curved Graphene



**Supercapacitors and SuperBattery**



**Industrial Modules**  
From low to high voltage needs



**Systems**  
MWs of immediate power



+ A qualified supplier and system provider to industry leaders in grid and renewable energy, transportation and heavy machinery, industry, and automotive



# Blueprint Factory Concept

Backbone of Skeleton's modular scale-up

## Superfactory in Markranstädt – Factory as a Product

- + **220mEUR** to be invested
- + Building will be finished by end of 2023, a factory space of **20.000 m<sup>2</sup>**
- + Manufacturing of **12 mio. supercapacitors per year**
- + SOP planned for **2024**
- + Design of the plant as **blueprint for further growth**
- + Ready for implementation of **machine learning and artificial intelligence**
- + **Full traceability** throughout the plant
- + **Bidirectional communication** of the machines possible

Leipzig Superfactory



Dresden Superfactory



# 3. How to contact us



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



Arnaud.Castaignet@sk  
eletontech.com

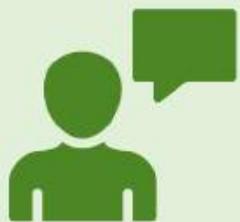


+372 5669 9602

**13.** Applied R&D on the material and energetic use of biomass, guided by the SDGs. How can biomass best contribute to a bio-economy & to an entirely renewable energy system? –

**Karen Deprie**, DBFZ Deutsches Biomasseforschungszentrum  
gemeinnützige GmbH (Saxony)

# 1. About us



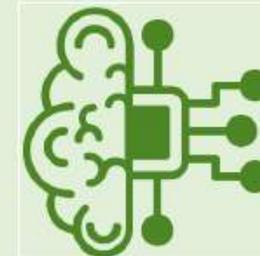
Karen Deprie



DBFZ – Deutsches  
Biomasseforschungs-  
zentrum gGmbH (German  
Biomass Research Centre)



**DBFZ**



Applied R&D on the  
material and energetic use  
of biomass, guided by the  
SDGs → How can biomass  
best contribute to a bio-  
economy & to an entirely  
renewable energy system?

## 2. What we are looking for

- ✓ Industry partners interested in implementing new technological concepts, e.g. plant engineers, energy-intensive industries
- ✓ Communities or farmers interested in diversifying/investing into RE concepts
- ✓ Research organisations and other stakeholders interested in scientific exchange
- ✓ Generally, partners interested in our competences, such as:
  - Biogas: potential of un(der)used substrates; flexibility in biogas production; bio-CH<sub>4</sub> production
  - Power-to-X: synergies of biomass & electricity-based processes (e.g. electrolysis-based H<sub>2</sub> in HEFA & synthesis/refinery processes // biomass + H<sub>2</sub> to CH<sub>4</sub> as fuel)
  - Bioenergy in a 100% RE system: analysis of regional resource potentials; identifying maximal systemic use in combination with other renewable energies (sector coupling)

# 3. How to contact us



[https://www.dbfz.de/  
en/](https://www.dbfz.de/en/)



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## **14. The Solar Roof Company – Janari Võrk, Solarstone OÜ (Estonia)**

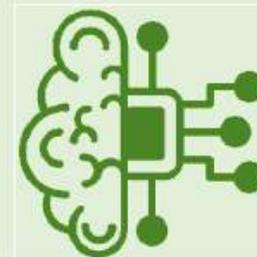
# 1. About us



**Janari Vörk**  
Communications Manager



Solarstone  
The Solar Roof Company



Building-Integrated  
Photovoltaics (BIPV) and  
Sustainable Solar Energy  
Solutions

## 2. What we are looking for

At Solarstone, we create innovative building-integrated photovoltaic (BIPV) solutions, merging solar energy generation with sustainable construction materials. We design high-performance solar roof tiles, develop digital tools for efficient BIPV project management, and collaborate with industry professionals to promote BIPV adoption.

**We seek partners in:**

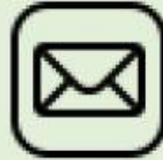
- *Building material manufacturing and supply.*
- *Construction and engineering firms.*
- *Energy utilities and providers.*
- *Research institutions and universities.*
- *Local/regional governments or organisations.*

Together, we can accelerate the global transition to sustainable energy and create a lasting environmental impact.

# 3. How to contact us



solarstone.com



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*@solarstone.com*



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**15. Empowering Consumers to Power the World –  
Tarvo Õng, Fusebox Energy (Estonia)**

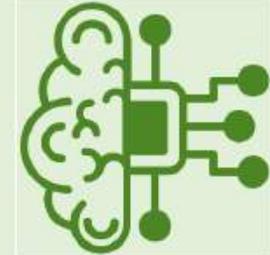
# 1. About us



Tarvo Õng



Fusebox OÜ



Energy flexibility software

## 2. What we are looking for

Fusebox is a specialized company, whose core competence is our unique software platform that unlocks electricity consumers' flexibility and enables the green transition. With Fusebox's SaaS platform for energy management, you can easily integrate and access new energy markets, while also reducing CO2 emissions and maximizing profitability.

Our aim is to find local partners from the energy sector (energy retailers, asset aggregators, original equipment manufacturers, PV park investors, etc) that can benefit from our demand response software.

# 3. How to contact us



[www.fusebox.energy](http://www.fusebox.energy)



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