

Green Heat for the Municipality decentralised – regenerative – co-operative Municipal Heat Planning permanently cheap and save with en-solution

A common welfare consulting project of CoopGo.consulting eG

Harald Lesch

(* 28. Juli 1960 in Gießen) ist ein deutscher Astrophysiker, Naturphilosoph, Wissenschaftsjournalist, Fernschmoderator und Hörbuchsprecher. Er ist Professor für Physik an der Ludwig-Maximilians-Universität München und Lehrbeauftragter für Naturphilosophie an der Hochschule für Philosophie München. »Es ist für mich ein völliges Rätsel, dass in einer Industrienation wie Deutschland es nicht klar kommuniziert wird, was es für eine herausragende Chance für die Industrie ist, jetzt diese Energiewende richtig anzutreiben!«

Wemeze

It is a total mystery to me in an industrial nation like Germany not to communicate clearly what an outstanding opportunity it is for the industry to really drive this energy transition now Prof. Harald Lesch, Astrophysicist

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The Use of Energy Changed over Time

- First crafters followed the Energy
 - A miller worked by the water and a charcoal burner in the forest
- With fossil sources energy became mobile
 - Industries raised everywhere and still exhaust their own resources
- Regenerative energy everyone can use everywhere
 - Our economy urgently needs to use this advantage for technological leadership and low-cost production

Municipal Heat Planning is <u>The</u> Future Task

Get the chances out of the upcoming German law:

- **Co-operation as a base:** Only together the energy change will work
- Security for the citizens: Always enough heat on demand
- Efficiency with local businesses : Intelligent use of energy as a site advantage
- **Cost cutting:** Co-operation in energy management keeps prices stable
- Funded Planning: Investment now is urgent: 90% subsidy until 31.12.23 !





In Cooperation with the Local Industries

Become successful at municipal level:

- Harvest green energy from sun and wind on local level
- Make the local business your energy production partner
- Realise cooperative hydrogen storage solutions
- Use heat from local industries for municipal purposes
- Link energy solutions for SMEs with civilian heat demand



Questions from Local Business to the Municipality:

How will the municipality support my business energy needs? Why change to local green energy? Who will burden the different investment costs? Which technique is ready to market and usable? Which chances offers an energy partnership?



en-solution got the Answers:

Industrial Plants will produce energy for themselves and others Cooperative storages supply electric and thermal power on demand The entire waste heat potential is available for municipal use Municipal investments are complemented by commercial ones Municipal heat planning becomes a municipal site advantage Uncertain ongoing costs become plannable investments

The Solution in a Nutshell: en-solution Integrates Production and Use of Energy



Green energy save and cheap with

en-solution, the blue print for cooperative solution

CoopGo.consulting supports you with **project** services:

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	Businesses as energy producer	Co-operative as logistic hub	Municipalities as heat users	
Analysis Who delivers/needs? Which kind of energy? Where are lacks?		H ₂ Hydrogen H ₂ Hydrogen V		
Planning Quantity structure Necessary facilities Co-operative organisation	Werksausfahrt			
Implementation Control of tender and bids Organisation of deployment Monitoring start of operation			DRYNAMIC: CONCEPT.	



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How CoopGo.consulting supports your Municipality



Examples from European Municipalities:

Sønderborg (DK) ProjectZero:

- From 2007 to 2029
 - Local businesses deliver heat, e.g Danfoss, local super markets...
 - Municipality planned/built sustainable quarter
 - District heat planning for whole municipality with heat pump + industrial waste heat in progress

https://www.projectzero2029.dk/en/

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Flensburg (D) District Heating:

- From 1969 to 2030
 - Today >90% linked to district heating
 - Up to 2025
 conversion to large
 heat pump
 - Inclusion of industrial waste heat
 - CO₂ neutral heating soon reality

https://www.zfk.de/energie/waerme/ stadtwerke-flensburg-bauen-gwpbis-2025-klimaneutralitaetgrosswaermepumpe Haßfurt (D) Renewable Energies:

- Local Heat and H2
 - Local power need sourced from 111% renewables
 - Batteries + Hydrolyseur for use of surplus power
 - Various local heating networks for settlements and municipal needs

https://www.stwhas.de/



The Benefits of en-solution

For all Stakeholders

- Stabilises the power grids (load balancing)
- Opens up heat capacities
- Minimises the ecological foot print (climate!)
- Saves money and resources
- Reduces political and technical dependencies

For the Industrial Partners

- Lowers energy costs down to minimum
- Strengthens resilience by own energy production
- Leads to independence from monopolistic structures
- Brings down your CO₂-footprint near zero
- Saves costs by a stable investment instead of rising prices

For the Municipality

- Saves reliable green power and heat supply for your municipality
- Supports planning, tender and bid management independently
- Increases the attractiveness of your town for citizens and businesses
- Simplifies and speeds up municipal heat planning
- Drives the transition to energetic cyclic economy

Who is responsible for en-solution?





Bodo Frommelt

- Jobs: Project manager with experience in planning and leadership (> 30 years of experience)
- Subjects: IT, digitisation, process design, regenerative use of energy
- Focal points: Link between humans, nature and technique, cooperation and creativity
- Education: Study of forest sciences and economics; additional training of informatics and project management
 (I.M.I.M.mich, ETILL Zwich, ELILLARCE)
- (LMU Munich, ETH Zurich, FU Hagen)
- Degrees: Diploma forester (Uni) and postgraduate economics)
- Academic activities: Researcher at Bavarian Forest Research Institute; Lecturer at TH Rosenheim (Informatics)

Looking for a balance of ecology and economics to save our environment in a world of limited resources.

Alexander Demmer

- Jobs: executive manager, external consultant, IT- and lean management expert (> 30 years of experience)
- Subjects: Process enhancements, IT best practices, business transformation, business development
- Focal points: Digital transformation, company mergers, digitalisation of SMEs
- Soft Skills: Leading multinational teams, fivw languages (RO,D,F,UK,I),
- Degree: Business informatics (Uni Saarbrücken)

Well-connected personality with strong interpersonal and social skills. He wants to promote excellence in the SME sector.



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