

TE CONSULTING 



TE CONSULTING / DIRK JUNGHANS

Thinking Solar

Introduction

Zurich, Switzerland, 07/07/2026

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thinking solar

Dirk Junghans

Date of birth: 21 December 1966

Education: TU Berlin, Germany

Electrical Installer (VET Diploma)

Technical environmental protection (Dipl.-Ing.)

MEI, Moscow, Energy- solare technology

Milton Keynes, England (MBA)

Experience: renewable energy

Planning, installation & operation

Measurement & billing services

Nationality: Swiss & German citizen





Agenda

INTRODUCTION



CONSULTING



SERVICE



CONTRACTING



SYSTEM





Agenda

INTRODUCTION



CONSULTING



SERVICE



CONTRACTING



SYSTEM





Vision

Solar drives my thoughts and my actions alike, and we have interesting, digital, renewable and solar solutions for you. Take a look and stay curious - we look forward to your ideas and suggestions.





Mission

Thinking Solar

Through the integration of photovoltaic, heating, and storage systems, we enable the intelligent, efficient, economical, and sustainable use of renewable energies. Our transparent, user-friendly, and automated billing solutions for electricity, heating, water, e-mobility, and battery storage create transparency for energy communities, owners, and residents - today and in the future.

TE Consulting / Dirk Junghans is independent of energy suppliers, banks, component manufacturers and installation companies. As an owner-managed, small and flexible company, we transparently highlight the financial potential of the end-to-end digitisation of your buildings, properties and sites and are your partner for billing, visualisation and solar optimisation of your real estate's technical systems and equipment.

Introduction

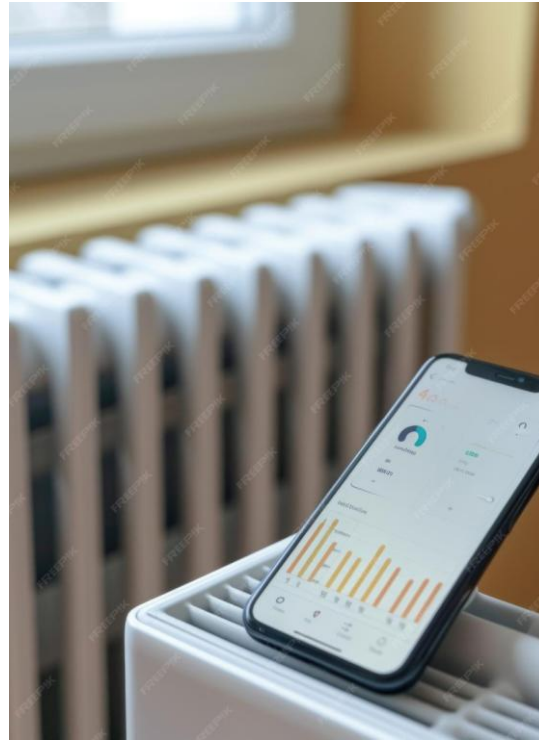


Overview

CONSULTING



SERVICE



CONTRACTING



SYSTEM





Agenda

INTRODUCTION



CONSULTING



SERVICE



CONTRACTING



SYSTEM



Consulting



Overview

- Real-time data as the key to transparency and energy savings.
- Understand energy, know consumption, reduce it and optimise it in the short and long term.
- Digitise buildings (electricity, heat, hot and cold water, e-mobility, battery).
- Usefully integrate and operate photovoltaics.
- Energy savings through real-time measurement with ongoing operational optimisations.
- Profitability calculations for (virtual) self-consumption communities and local electricity communities, incl. consumption-based energy and water billing (heat & water).
- Understand the economics of photovoltaics & CO₂-free heat generation (HP).
- Development and planning of contracting heating replacement projects.
- Variant comparison for heat generation & preliminary study within SIA phase 2.
- Heat pump contracting support in SIA phases 3-6.
- Detailed yield analysis of PV systems during operation.
- Efficiency determination of heat pump systems during operation.





Agenda

INTRODUCTION



CONSULTING



SERVICE



CONTRACTING



SYSTEM

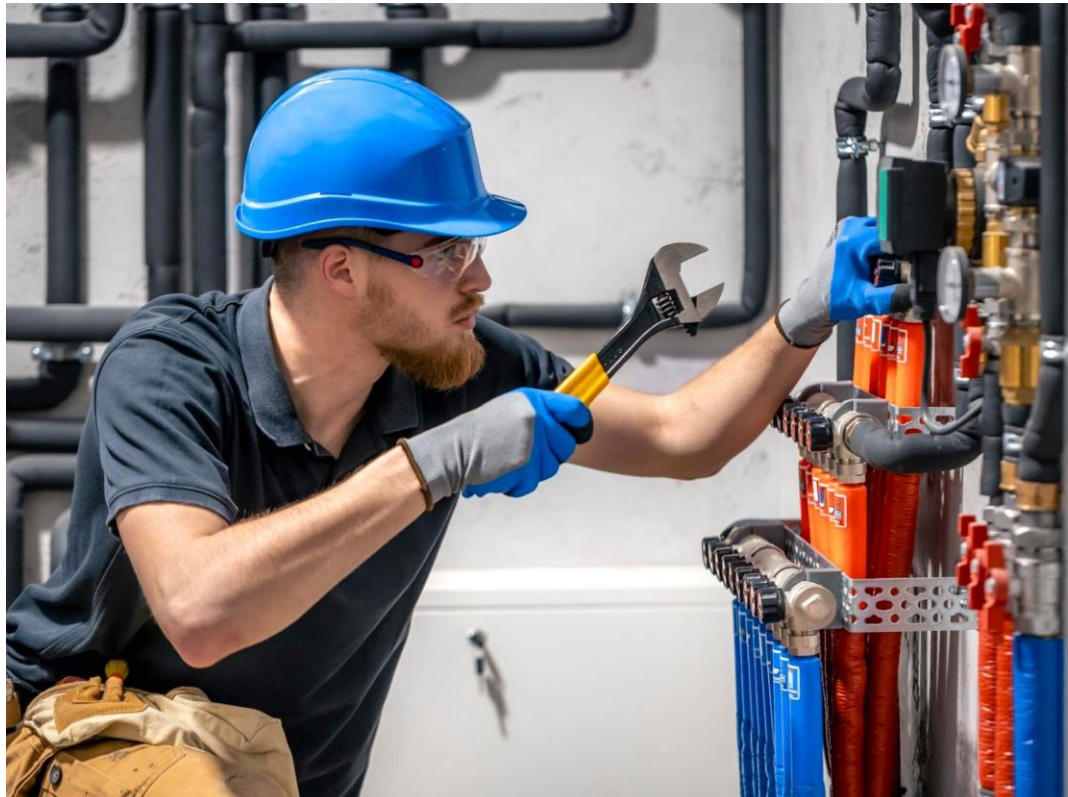


Service

Overview



IMPLEMENTATION



OPERATION

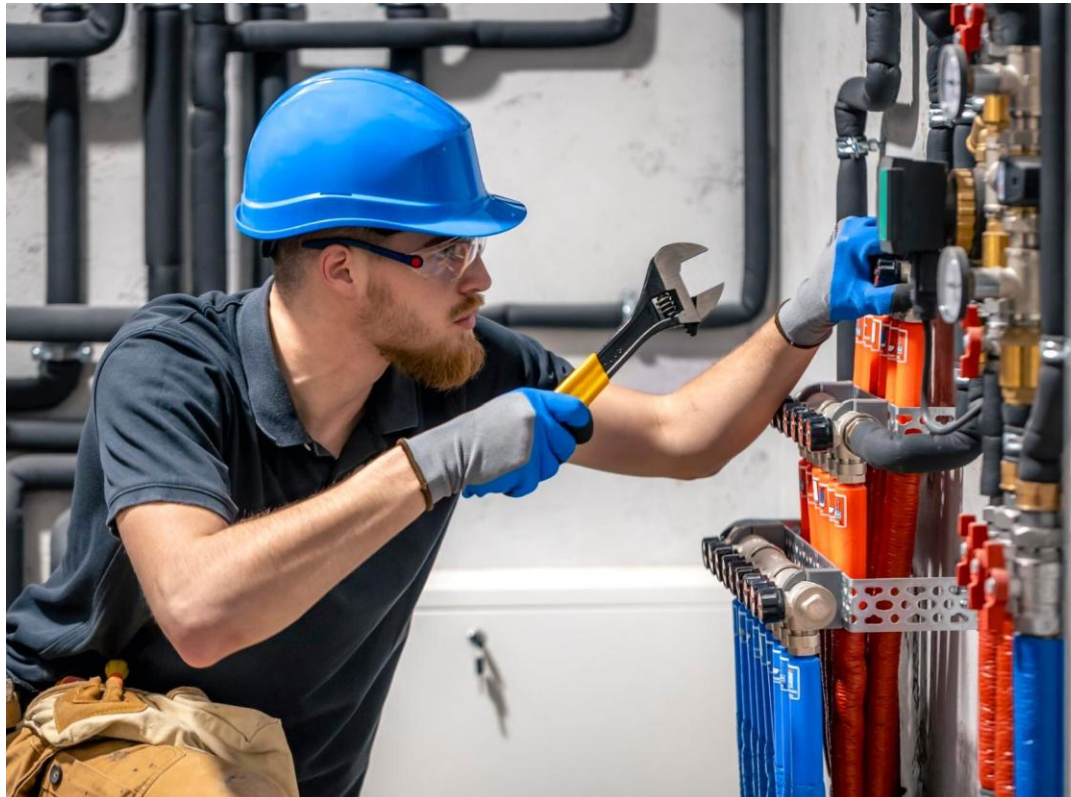


Service



Overview

IMPLEMENTATION



OPERATION





PLANNING, DELIVERY, CONSTRUCTION, COMMISSIONING

- SERVICES**

Planning, construction and structural implementation of digitisation projects by integrating measurement technology into your property, including project administration, coordination with energy and water suppliers, project partners, creation of installation notices, safety certificates, training for management and owners, documentation and acceptance.

- Energy and media data recording**

Planning, delivery, assembly and commissioning of the entire measurement and software infrastructure as the basis of complete, economically viable digital building infrastructure.

DESCRIPTION	
Added value	 Efficiency
	 Flexibility
	 Cost-effectiveness
Service	 Planning, delivery, construction
	 Commissioning
Insights	 Premium
	 Classic
	 Basic
Price	 Fixed
	 Measurement devices: rent or buy

Service

Overview



IMPLEMENTATION



OPERATION





PREMIUM

- **Services**

Operation of your virtual self-consumption communities and local energy sharing electricity communities by taking over the energy and media billing. Measurements and visualisations are based on real-time and 15 min. values for the entire property and are accessible at apartment level for all energy flows. Solar optimisation incl. load management supports you on your journey to be powered by the sun.

- **Energy and media recording**

Recording and visualisation of your data in real time and 15 min. on our cloud platform. The data is hosted in Switzerland for maximum security and reliability.

DESCRIPTION

Added value	 Shared Energy and Utility Services Community SCC, vSCC, LEC and CUEWB - Operation  Measurement, visualization, billing of solar power, electricity consumption from plant, e-mobility, battery  Solar optimisation / optional
Service	 Data recording/ real time / 15 min.  Hardware monitoring (meters & communication)  Change of tenant  Invoicing, creation & shipping  Collections
Insights	 Analytics & reporting
Price	 Fixed & variable



CLASSIC

- **Services**

Operation of your virtual self-consumption communities and local energy sharing electricity communities by taking over the energy billing. Measurements and visualisations are based on real-time and 15 min. values for the entire property and are accessible at apartment level for all energy flows. Solar optimisation including load management supports you on your journey to be powered by the sun.

- **Energy and media data recording**

Recording and visualisation of your data in real time and 15 min. on our cloud platform. The data is hosted in Switzerland for maximum security and reliability.

DESCRIPTION	
Added value	 Shared Energy Services Community SCC, vSCC, LEC - Operation  Measurement, visualization, billing of solar power, electricity consumption from plant, e-mobility, battery, heating, hot & cold water  Solar optimisation / optional
Service	 Data recording/ real time / 15 min.  Hardware monitoring (meters & communication)  Change of tenant  Invoicing, creation & shipping  Collections
Insights	 Analytics & reporting
Price	 Fixed & variablesw



BASIC

- Services**

Operation of your virtual self-consumption communities and local energy sharing electricity communities by taking over the energy billing. Measurements and visualisations are based on quartely-hours reading for the entire property and are accessible at apartment level for all energy flows. Solar optimisation incl. load management supports you optional on your journey to be powered by the sun.

- Energy and media data recording**

Recording and visualisation of your data at 15-minute intervals on our cloud platform. The data is hosted in Switzerland for maximum security and reliability.

DESCRIPTION	
Added value	 Shared Energy Services Community SCC, vSCC, LEC – Operation  Billing of solar power, electricity consumption from supplier, e-mobility, battery  Solar optimisation/optional
Service	 Data recording/ 15 min.  Hardware monitoring (meters & communication)  Change of tenant  Invoicing, creation & shipping  Collections
Insights	 Analytics & reporting
Price	 Fixed & variable



Agenda

INTRODUCTION



CONSULTING



SERVICE



CONTRACTING



SYSTEM



Contracting



Photovoltaic systems

- Billing, visualisation, optimisation during the contracting period
- Contracting tenders for photovoltaics according to SIA
- Measurement with 3D-Scan- drone technology
- Engineering of the PV system to suit roof areas
- Planning T-SOL software package "Professional"
- Occupational safety during installation: integration of temporary fall protection system
- Occupational safety during operation: integration of permanent fall protection system
- Efficiency: battery vs. (virtual) self-consumption communities and local electricity communities



Contracting



Heating

- Billing, visualisation and optimisation services during the contracting period by TE Consulting/Service
- Real-time data as the key to transparency & savings
- Energy saving before the contracting tender
- Precise investment costs for generation vs. consumption
- Contracting tender for heat pumps according to SIA (2-6)
- Plans for a heat pump solution (SIA phase 3)
- Planning & integration of necessary grid reinforcement for HP
- Planning & integration of creation of water intake for HP





Agenda

INTRODUCTION



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SERVICE



CONTRACTING



SYSTEM



System



Photovoltaic systems

- Integration of (virtual) self-consumption communities and local energy sharing electricity communities as important aspects of economically viable PV projects
- Solar optimisation by automating the increase in self-consumption
- Planning, delivery, construction and operation throughout Switzerland
- Planning of photovoltaic systems
- Supply of photovoltaic systems
- Construction of photovoltaic systems
- Operation of photovoltaic systems
- Integration of battery and e-mobility as an option



System



Heat pump

- Integration of (virtual) self-consumption communities and local energy sharing electricity communities as important aspects of economically viable heat pump projects
- Solar optimisation by automating the increase in self-consumption
- Planning, delivery, construction and operation throughout Switzerland
- Planning of heat pump systems
- Supply of heat pump systems
- Construction of heat pump systems
- Operation of heat pump systems



System



Constructed wetlands

- Incorporating the contributions of communities and project groups as key elements of economically viable, aesthetically pleasing, and decentralized wastewater projects
- Design of constructed wetlands
- Supply of constructed wetlands
- Construction of constructed wetlands
- Operation of constructed wetlands
- Consulting and construction services throughout Switzerland



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References

Billing, Visualization, Optimization



Energy community: operational since August 1, 2025



Billing, Visualization, Optimization



Consumption-dependent energy and water billing : Operational since January 1, 2026



Billing, Visualization, Optimization



Energy community / operational since February 1, 2026



Billing, Visualization, Optimization



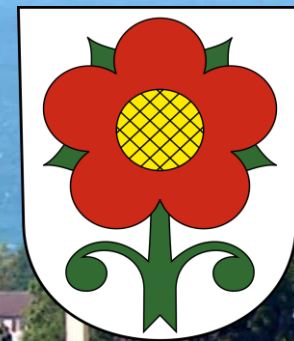
Energy community: /operational since May 8, 2026



Billing, Visualization, Optimization



Energy community / operational as per July 1, 2026



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Billing, Visualization, Optimization



Energy community: operational as per August 1, 2026



Billing, Visualization, Optimization



Energy community: operational as per Oktober 1, 2026





Got questions or a specific project?
Our experts would be happy
to help you find the best solution.

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