UMWELT PARTNER SCHAFT HAMBURG

ENERGIE EFFIZIENZ made in Germany

Energy Efficient into the Future !

Envidatec GmbH, Hamburg

Company Presentation

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Company Development

- Foundation as independent company out of an E.ON competence center for energy management systems
- Core competences at energy efficiency analyses, energy management systems, energy data controlling, individual solutions and their implementation
- Services and software solutions for efficient energy use

- **2001** Head office in Hamburg, Competence center for efficient energy use
- **2004** Branch office as scientific center for research and development in Wien
- **2007** Foundation of the omtec Energiemanagement GmbH, Wien
- **2009** Orientation „Energy efficient into the future – DIN EN 16001“
- **2010** Foundation of the subsidiary OOO Envidatec Ost (Jekaterinburg)
- **2011** Orientation „Energy efficient into the future – DIN EN ISO 50001“
- **2012** Start of OpenJEVis as R&D network (open source community)
- **2014** Start of JEVis partner network

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Envidatec Competences

Energy Management System ISO 50001	Energy Efficiency Analysis	Energy Monitoring

Envidatec Business Units

Energy Solutions	International Cooperation	JEVis Solutions
Short Term Long Term - Service Contract	Short Term Long Term - Franchising	Short Term Long Term - JEVis Services

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Envidatec References

Energy Solutions

KAZCHROME
BODE
for farmers
PLASTIC OMNIUM
Dr.Oetker
BOIZENBURG FLIESEN
DB
LSG Sky Chefs
Ottakringer
HaBeMa
tesa
ЭНЕРГОМАШСПЕЦСТАЛЬ ENERGOMASHSPETSSTAL
atomenergomash

International Cooperation

ЧРМК
EMY
giz
SIAM PARAGON
ThaiNamthip
Coca-Cola
KazTransOil
LUKOIL OIL COMPANY
Thai Hitachi Enamel Wire
EKARAT ENGINEERING PUBLIC COMPANY LIMITED

JEVis Solutions

EVONIK INDUSTRIES
TU WIEN
AIT AUSTRIAN INSTITUTE OF TECHNOLOGY
ABB
Wiesbauer TYPISCH ÖSTERREICHISCH
TUHH Technische Universität Hamburg-Harburg
SIVATEL BANGKOK
COFELY GDF SUEZ
MyCoffee.uk.com

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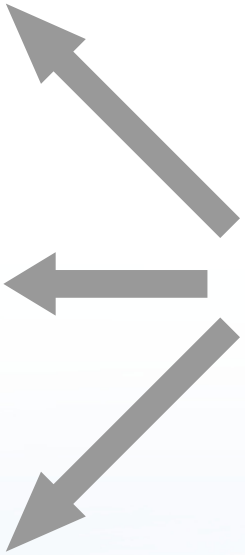
Envidatec Competences

Holistic Approach

Experience since 2001

Listed **consultants** at BAFA, KfW, LEEN, GIZ, EBRD



Staff Know-how:

Automation

Electrical & Energy Engineering

Process & Environmental Engineering

Energy Business

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Core Competences of

ENVIDATEC

Energy Management System ISO 50001

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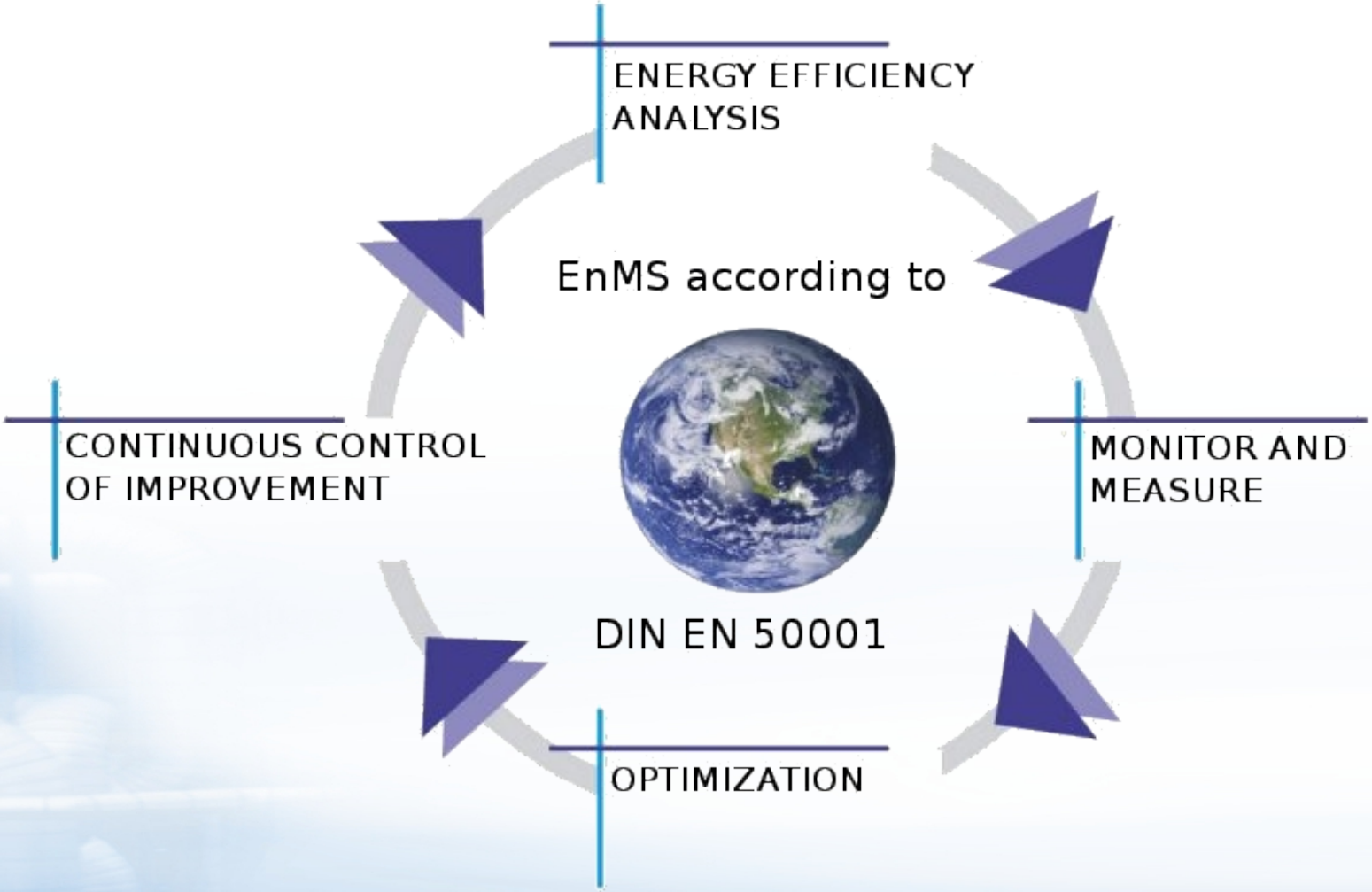
Energy Management System ISO 50001 - Continuous Improvement Process in Practice



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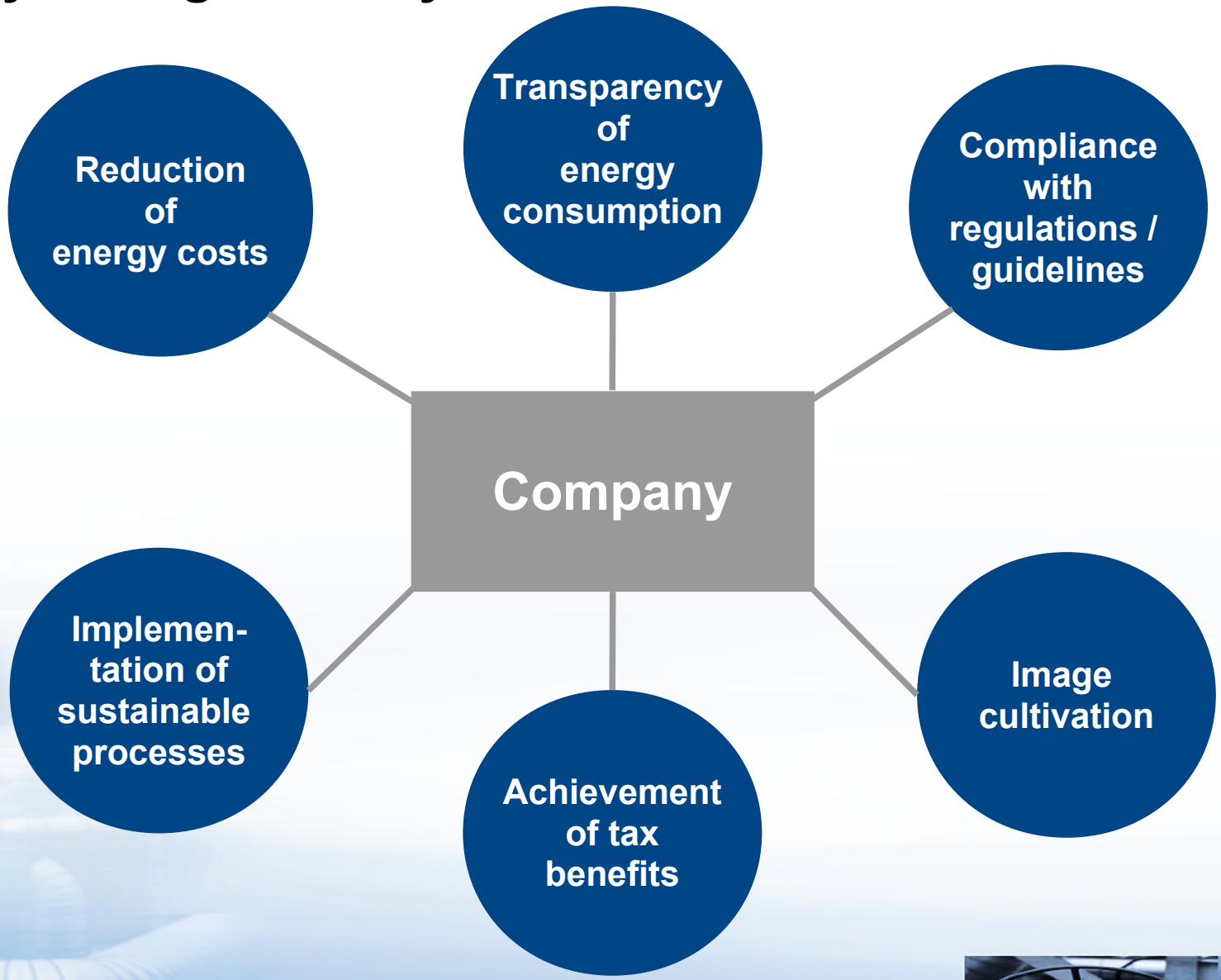
Energy Management System ISO 50001 - Benefit



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Services Concerning the Implementation of ISO 50001

	Basic Services EnMS	Additional Services EnMS
Energy Management System ISO 50001		
Diagnostic audit		
Planning of all relevant functions		
Support with the implementation of measures		
Verification audit		
Energy Efficiency Analysis		
Investment plan for energy efficiency measures		
Profitability analysis for energy efficiency measures		
Energy Monitoring		
Development of measuring point concepts		
Implementation of system solutions (soft- and hardware)		
Implementation of structures for energy controlling and reporting		
Other Services		
Trainings		
Internal audit		
Backing through the certification process		

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Core Competences of

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Energy Efficiency Analyses

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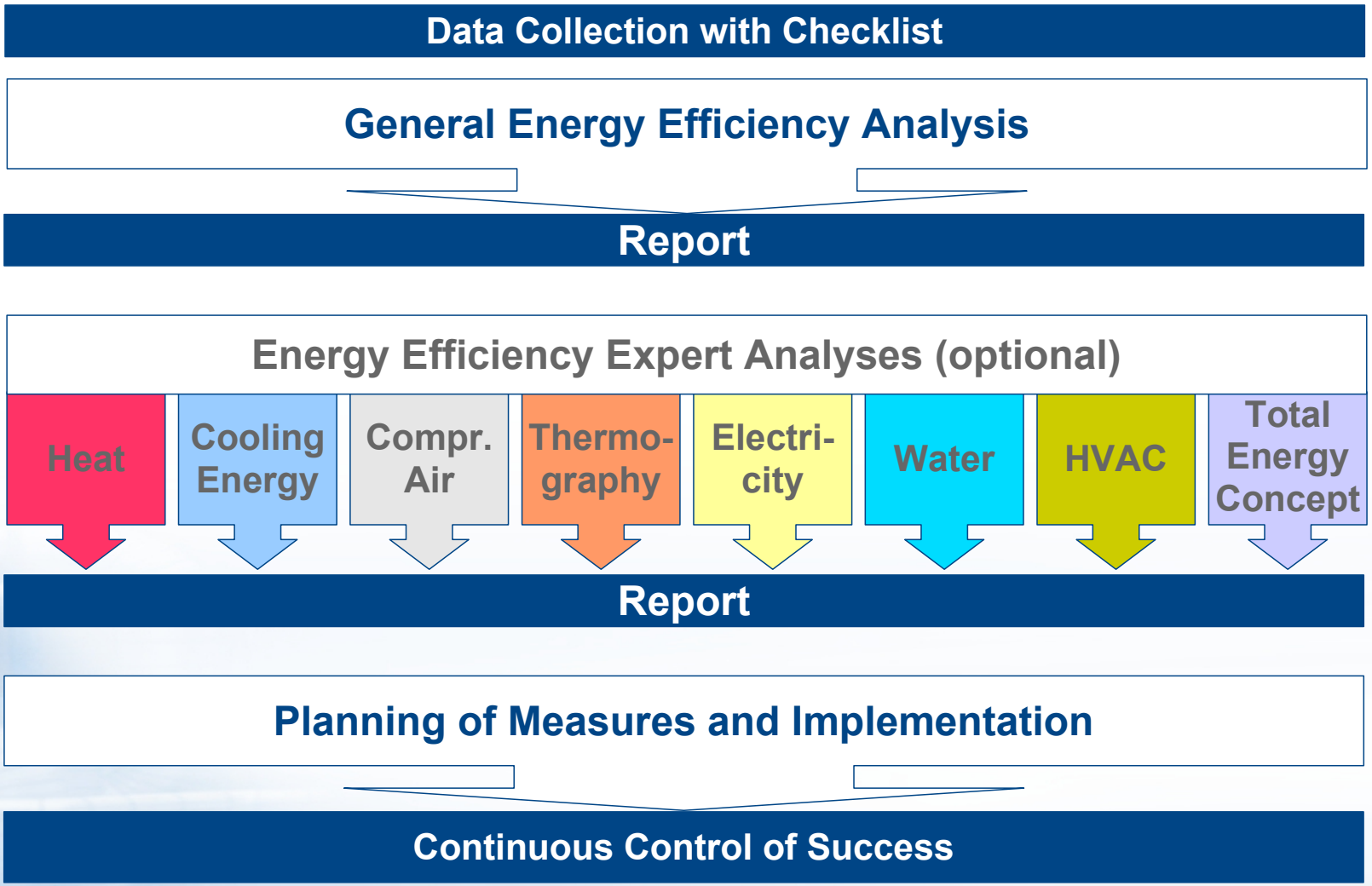
Energy Efficiency Analyses according to DIN EN 16247-1



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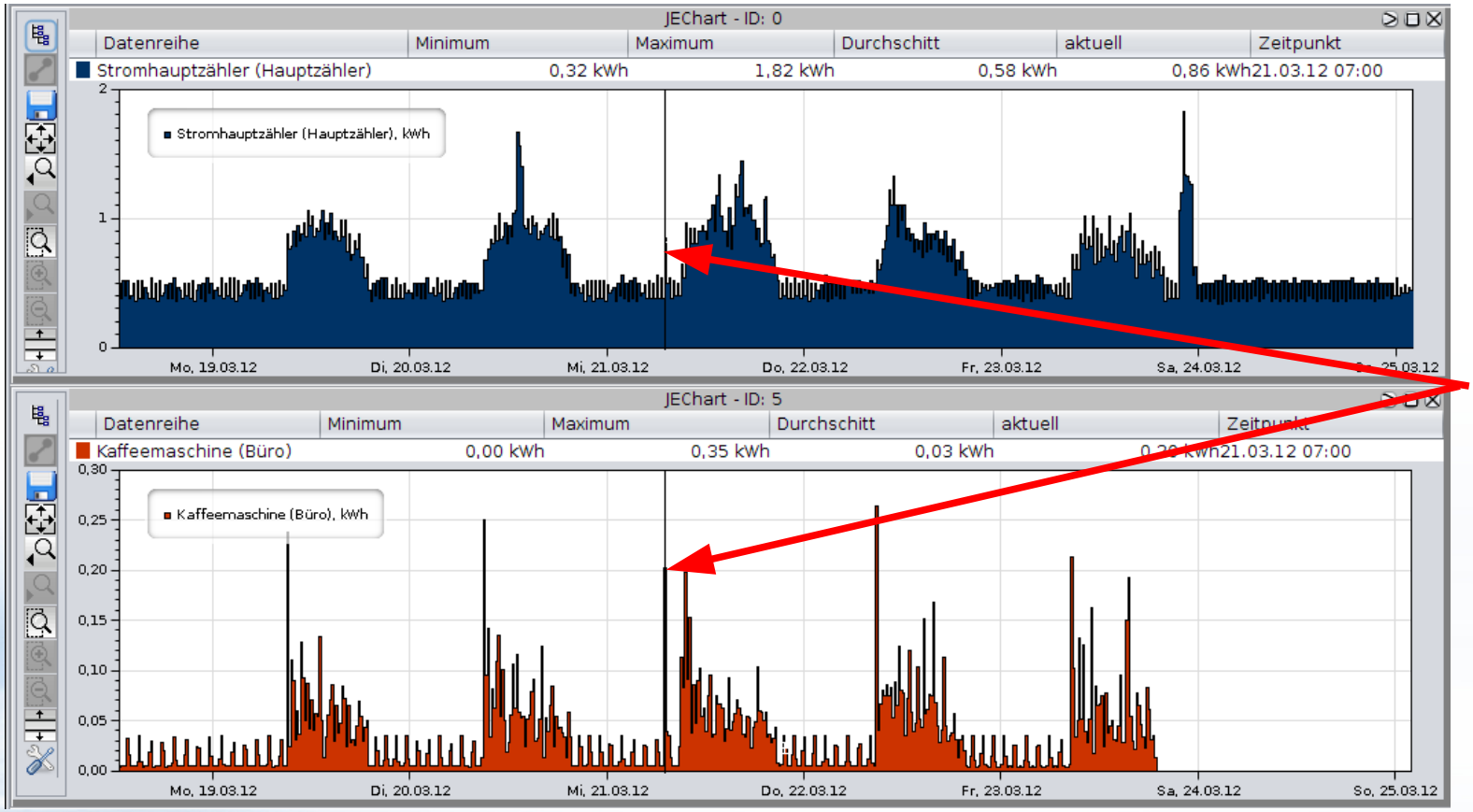
Measure Example 1: User Behavior for Coffee Machine

Power Consumption in Sum (standard week Mo. - So.)



influence

Power Consumption Coffee Machine only (standard week Mo. - So.)

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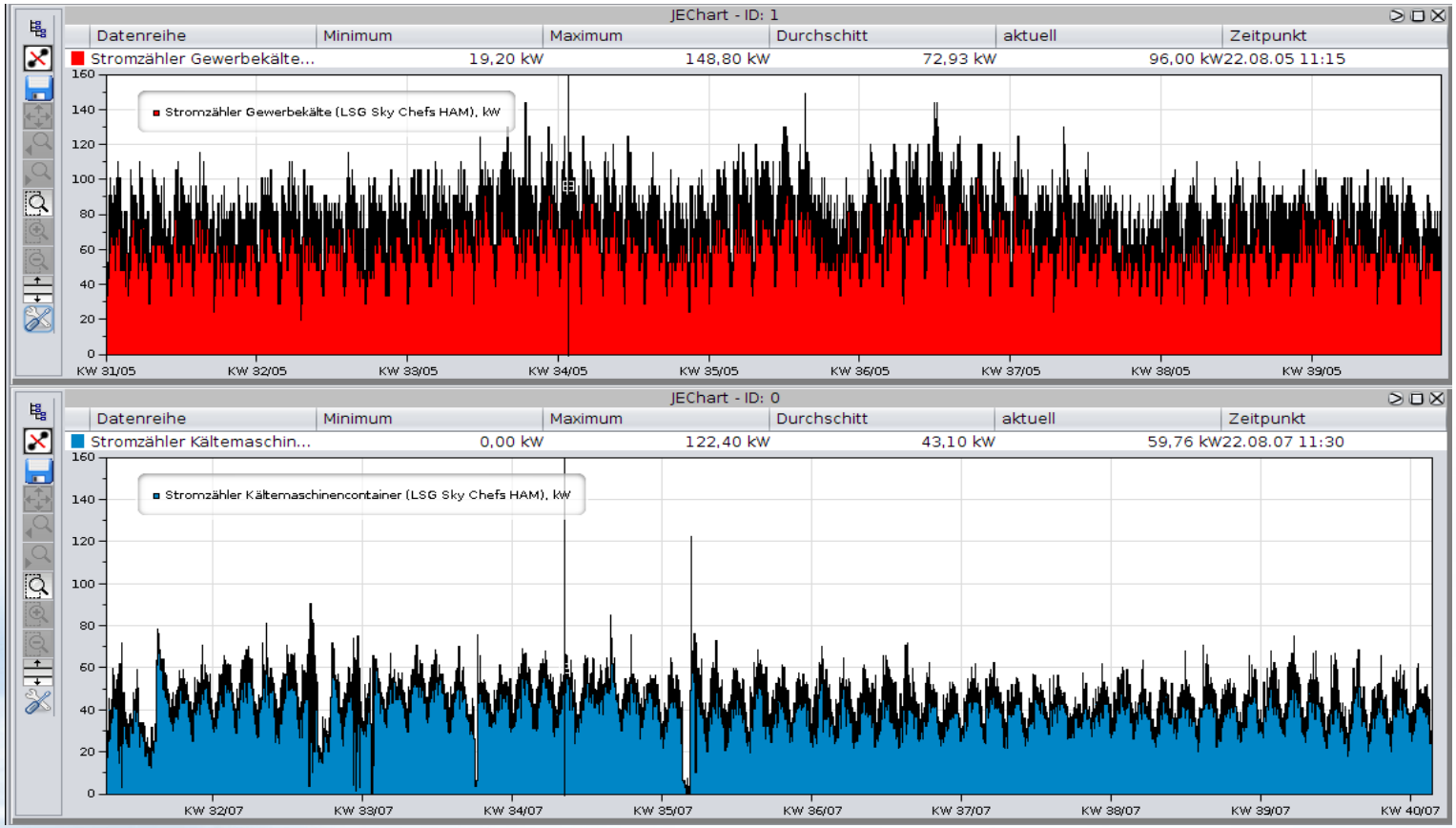
Measure Example 2: Optimized Chiller System

Power Consumption (old compressors changed to integrated facility)



Savings: 193.000 kWh / year, equals to approximately 22.000 € / year

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Core Competences of

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Energy Monitoring

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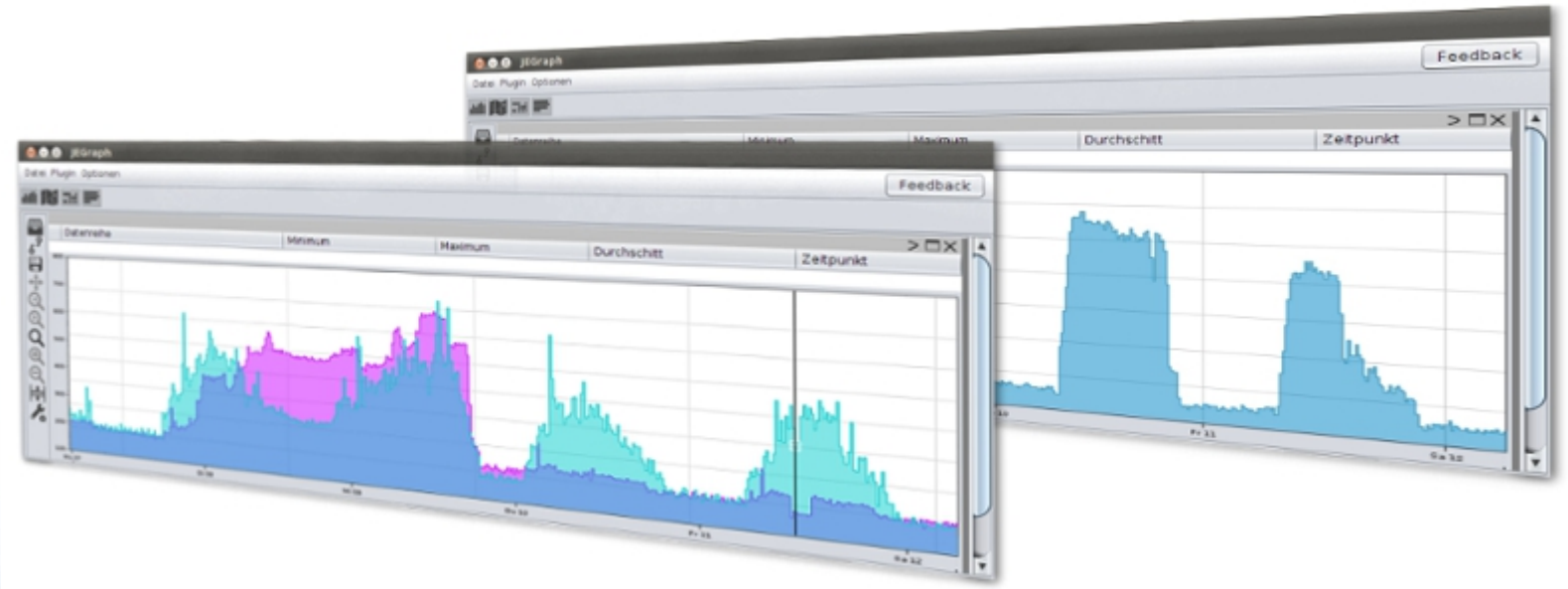
Energy Efficiency Requires Transparency



- Required for the evaluation of the energy baseline
- Basis for detecting savings potential
- Basis for investment decisions
- Instrument for control of success of applied measures

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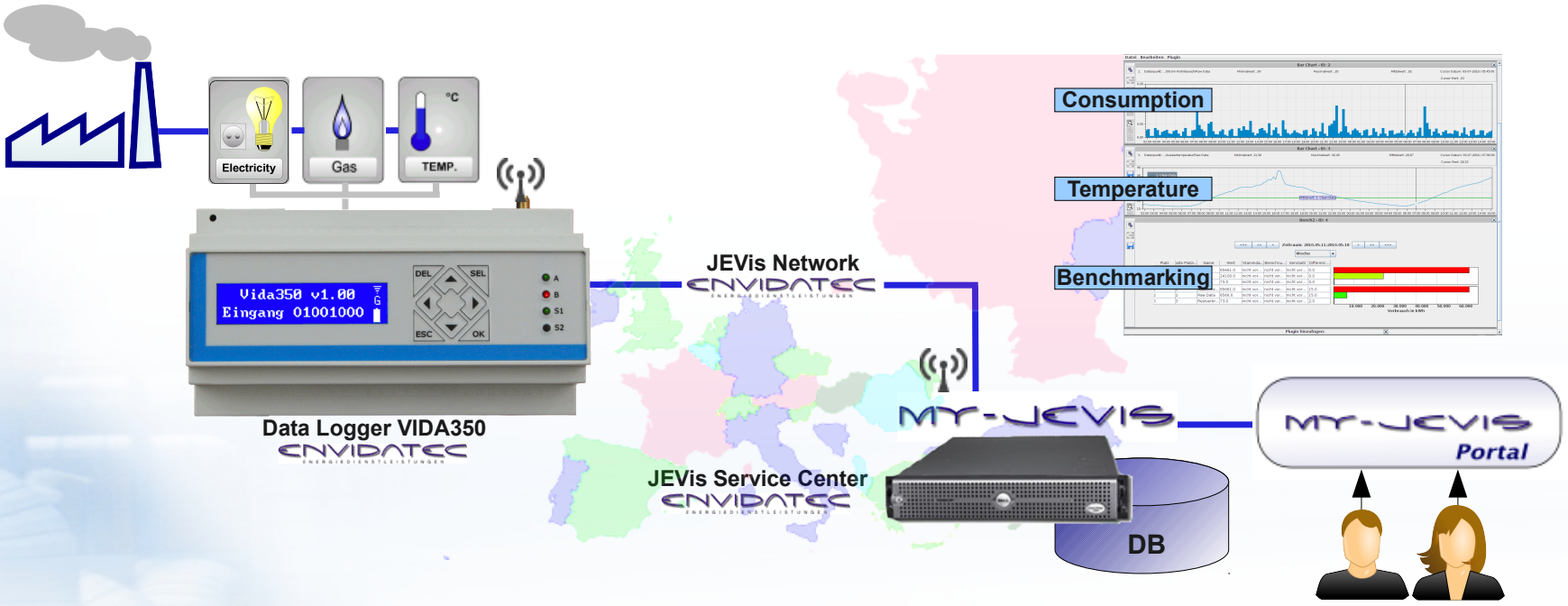
Energy Monitoring Solutions

- Available as hosting or in-house solution



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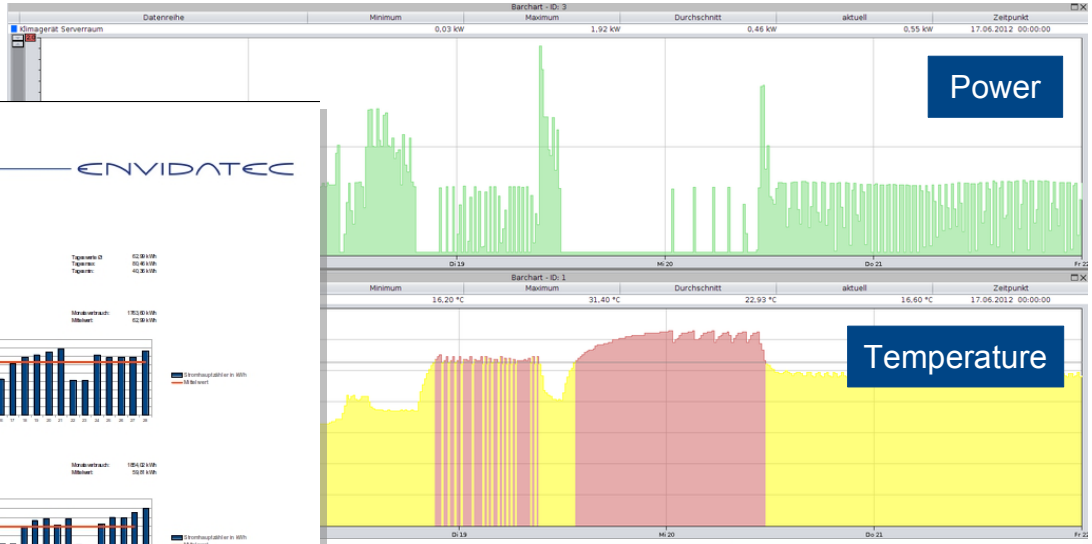
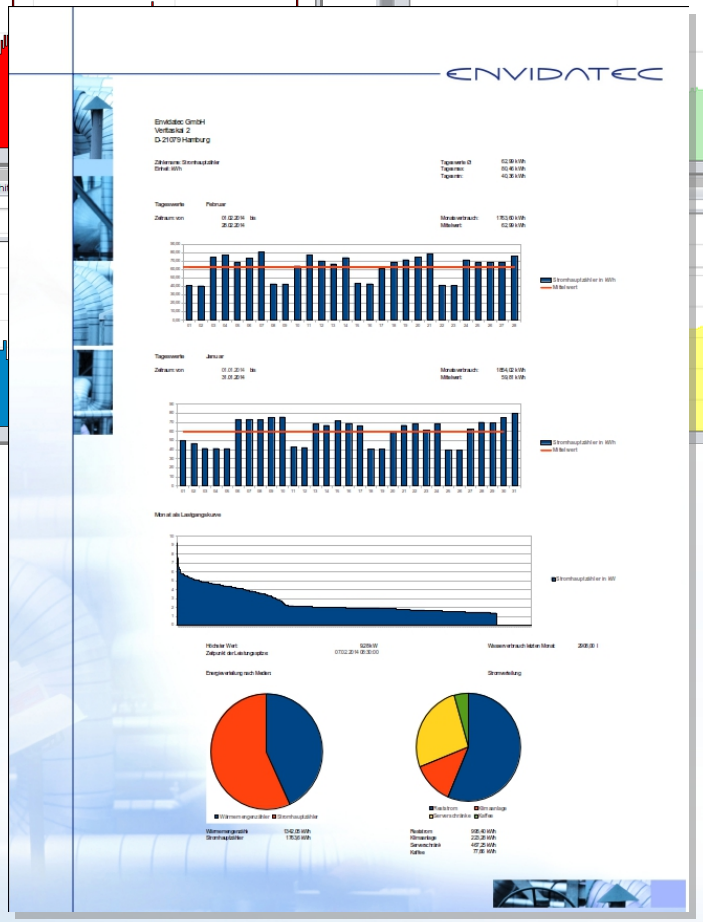
Detection of Misbehavior and Reports

Water Leakage



Defective Air Condition



Report

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Open Source Community

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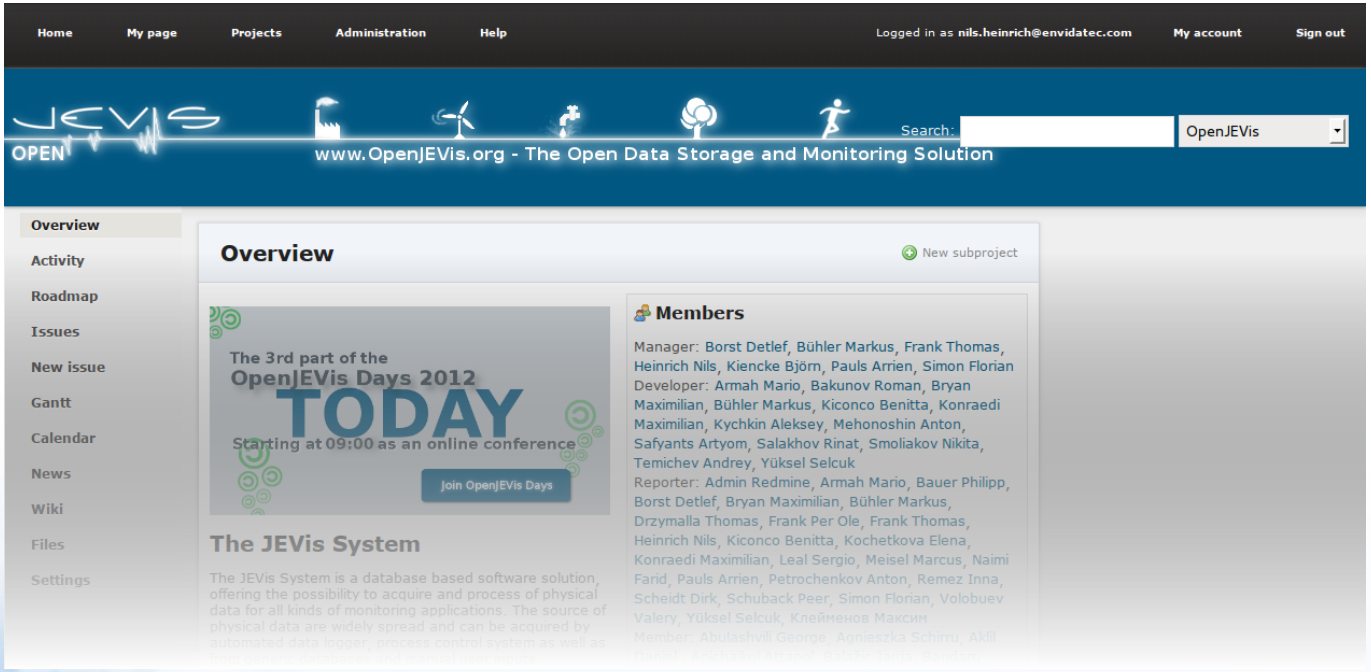
OpenJEVis Community



- Ongoing development and improvement due to large user community
- Communication platform for exchange within the community
- Direct feedback facilitates orientation towards current market needs
- Open data interfaces and standard APIs

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OpenJEVis Community Partner

Pontificia Universidad Católica del Perú

Deutsch Kasachische Universität

Energy Efficient Cities of Ukraine

Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

National Technical University of Ukraine

Envidatec GmbH

Bode Chemie GmbH

Ural Federal University

Hochschule für Angewandte Wissenschaften Hamburg
Hamburg University of Applied Sciences

HAW Hamburg

Donetsk National Technical University

Austrian Institute of Technology GmbH

Worlée Chemie GmbH

PSTU Perm

TU Wien

NSB Niederelbe Schiffahrts-gesellschaft mbH & Co. KG

Eurasian National University

TECHNISCHE UNIVERSITÄT ILMENAU

OOO Envidatec Ost

Lodz University of Technology

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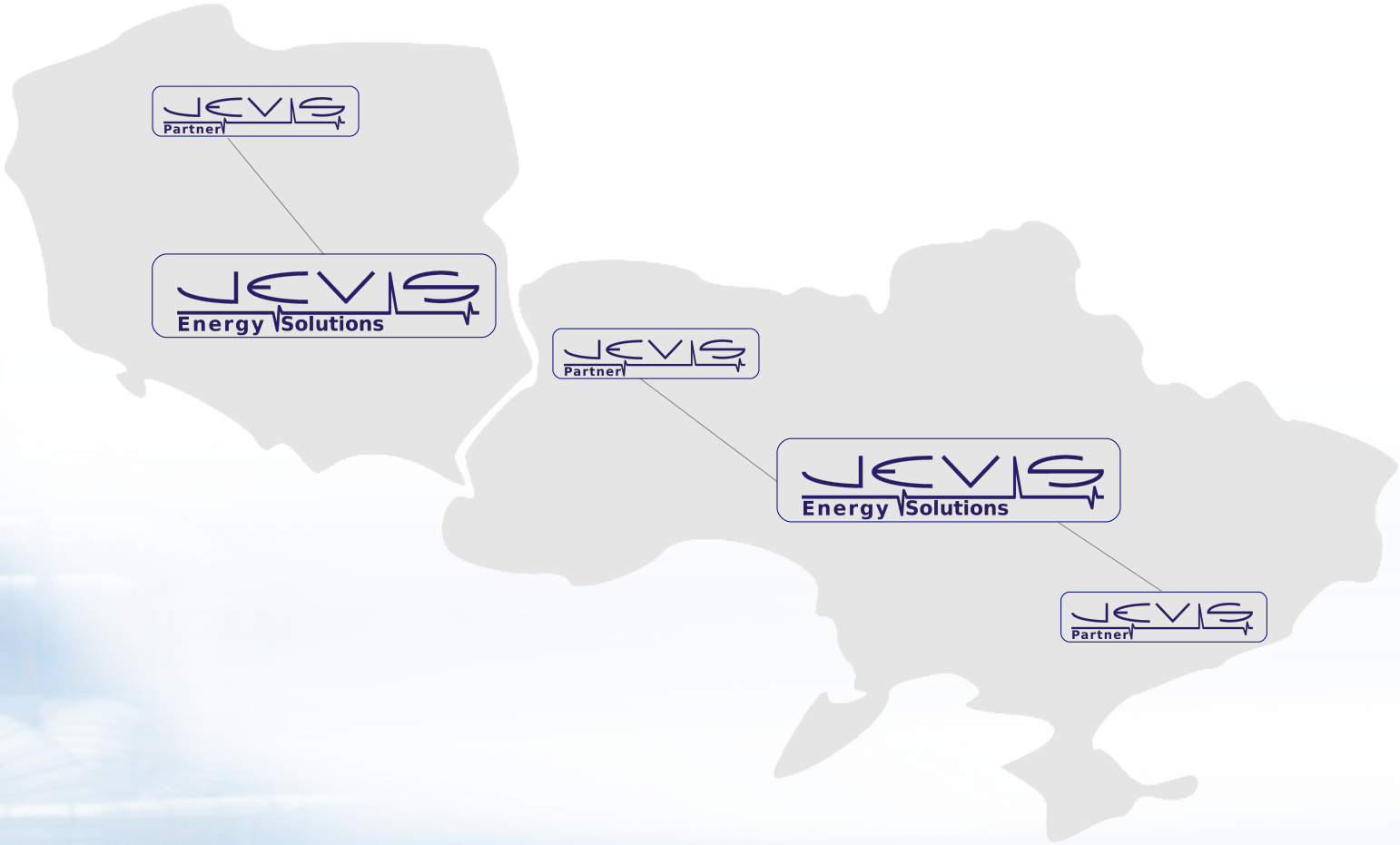
ENVIDATEC

Partner and Franchise Concept

Franchising Concept



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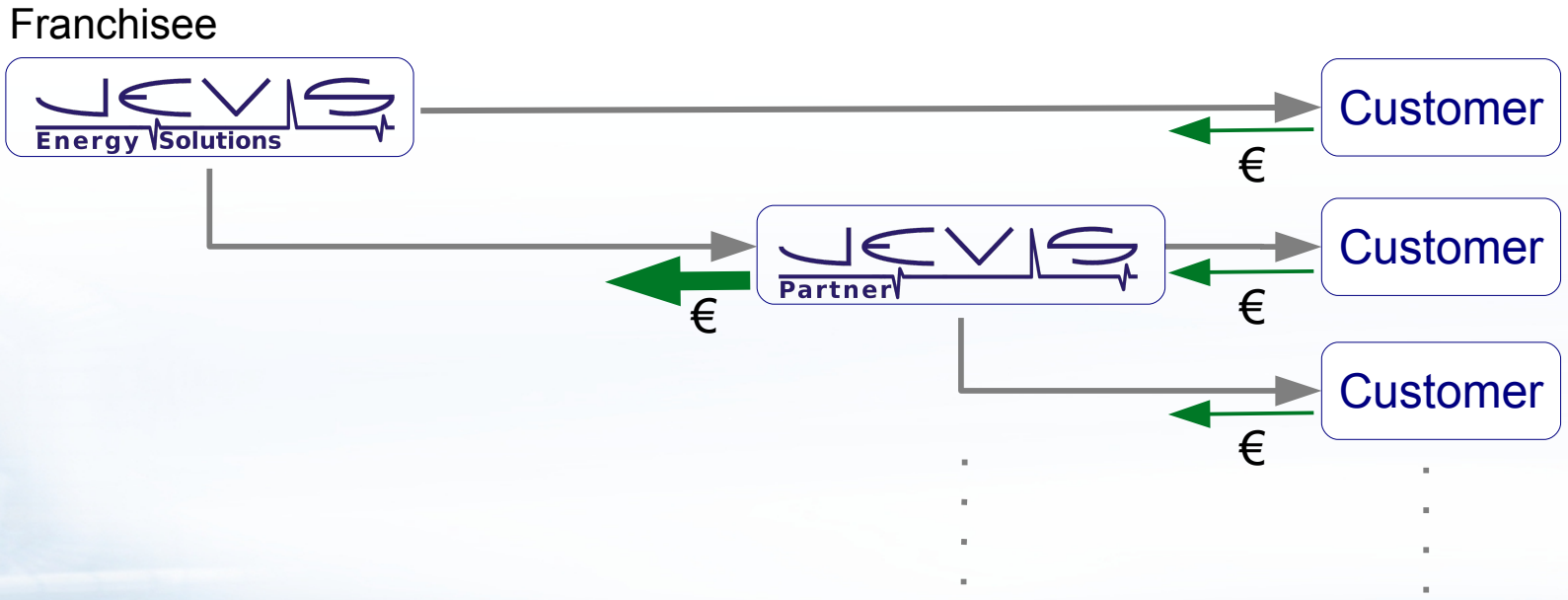
JEVis Franchisee, Partner and Customers

- Sustainable business worldwide
- Trustful cooperation
- Worldwide support



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JEVis Energy Solutions Worldwide

1. Hamburg
2. Perm
3. Vienna
4. Kiev
5. Jeddah
6. Lima
7. Santiago de Chile
8. Shanghai
9. Hanoi
10. Bangkok

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