SOLARGOESDIGITAL



OptimizedCrossSectorEnergyManagementvithDigital SolutionfsomSMA



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DIGITALISATION IN ISRAETART-UP NATION





- > WAZE- GPSbasednavigationsystemforsmartphones
- > MOOVIT- Mobiledataanalysisn citiesandcos free app for public transport
- > MOBILEY € Drivingassistancs system
- > GETT Onlinetaxiserviceapplication



- > CYMULATE Simulation of cyberattacks in order to learn from the process
- > BOTIFY Identification and blocking of bots
- > D-ID Privacy through encryption of pictures and faces
- > NAMOGOO Cybersecurity for customers on e-commerce platforms



- > NEURA Connected smart home solutions adapting to user's real life and behaviour
- > VAYYAR Safe, mobile, low cost 3D Imaging
- > TWIGGIE Natural language search in e-commerce
- > PRESENSO Predictive maintenance for maximizing uptime in industrial production

REDUCING COSTS & INCREASING PERFORM.



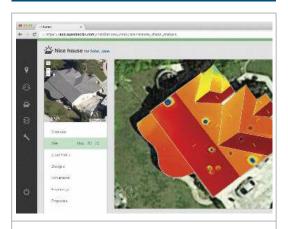
Manufacturing



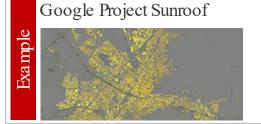
- Digital Network
- Robotization
- Automation
- Quality Management
- Industry 4.0



RemoteAcquisition & Design



- Satellite Pictures
- 3D Light Detection and Ranging
- Analysis of potential
- Remote technical design
- Combination of load profiles



Operation & Maintenance



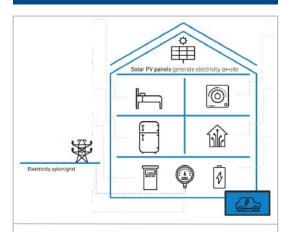
- Monitoring und Control
- Asset Lifecycle Management
- Predictive Maintenance
- Big Data Analysis
- Especially for Utility Scale



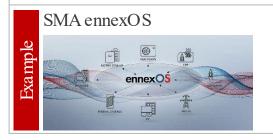
OPTIMIZE BUTURE PROOF DIGITAL SOLAR SYSTEMS



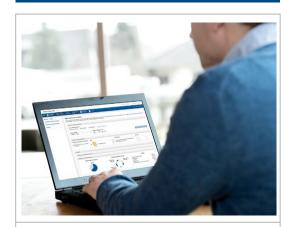
Smart Buildings



- Production and storage
- Local enery management
- Connected, intelligent devices
- Sector coupling
- Integration to energy markets



Photovoltaics



- Intelligent Storage Systems
- System Design
- Energy Trading
- Integration of Renewables
- Direct selling of energy



Microgrids



- Communities, companies etc.
- Act as one unit
- Mostly connected to the grid
- Island grid in case of blackout
- Digital grids

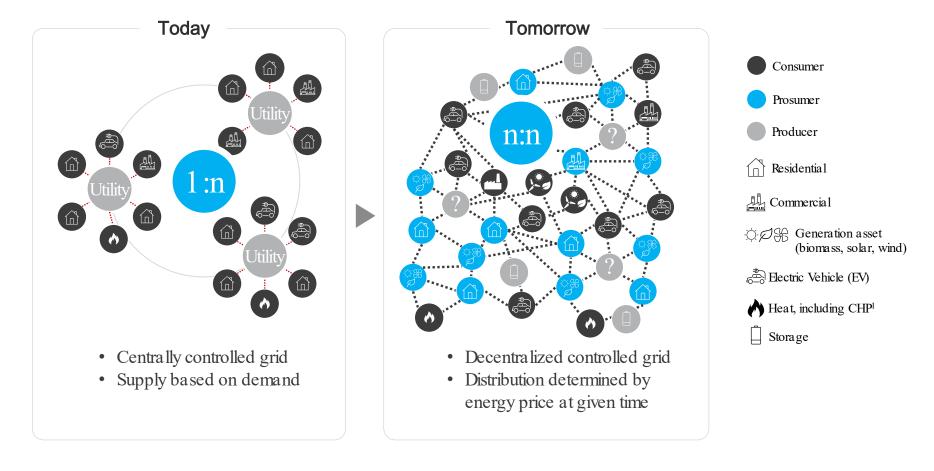


TRANSFORMATION OF THE ENERGY SECTOR REINTELLIGENTSOLUTIONS TO MANAGE DECENTRALUNITS





6

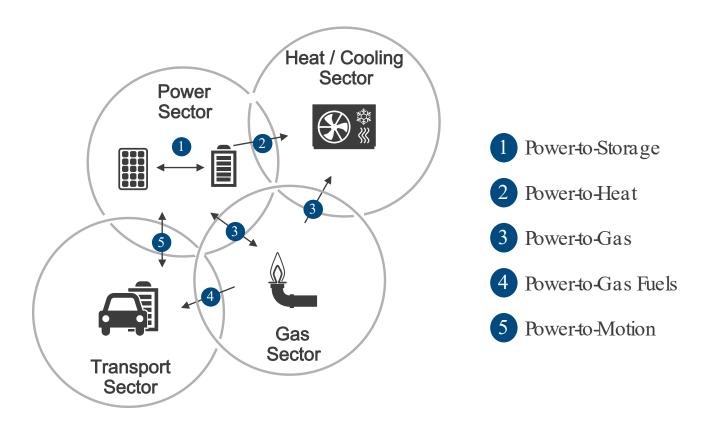


Digitalization is the key to decentral energy production and new business models.

1 CHP: Combined Heat Power

SECTOR CONVERGENCE PROVIDES NEW ME OF FLEXIBILITY – MANAGING THE RESULTING COMPLEXITY REQUIRES INTELLIGENT CONTROL





Variable power prices and new technologies add new options for energy transfer between sectors.

COMMERCIALENERGY MANAGEMENT SAMPLE SUPERMARKET

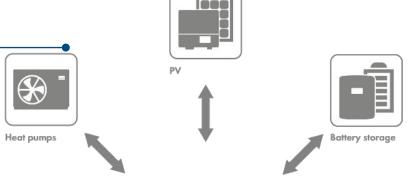


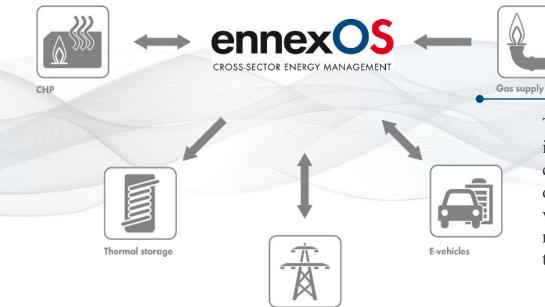


MANAGE ALENERGY SECTORS ON A SINGLE PLATFORM



The **connectivity of all energy sectors** is crucial for the new energy world. All different systems need to be continually optimized to make the most efficient use of energy.





Grid feed-in / supply

The Internet of Things (oT) is the technical basis for connecting and managing different devices and systems via internet. In the energy market, IoT is a driving force

to create the future of energy.

A NEW DIMENSION OF INTELLIGENTENERGY MANAGEMENT

ennexO_{\$}

OPERATE



Get the most out of energy

All energy sectors on a single platform for the first time

Significant cost savings

Simply analyze and intelligently manage energy flows

Ready for the future today

Modular extension and expandability, even with partner solutions

Secure energy supply

Identify and implement optimization potentials at any time

Efficient and easy to use in every aspect

Web-based, automated processes, easy to use

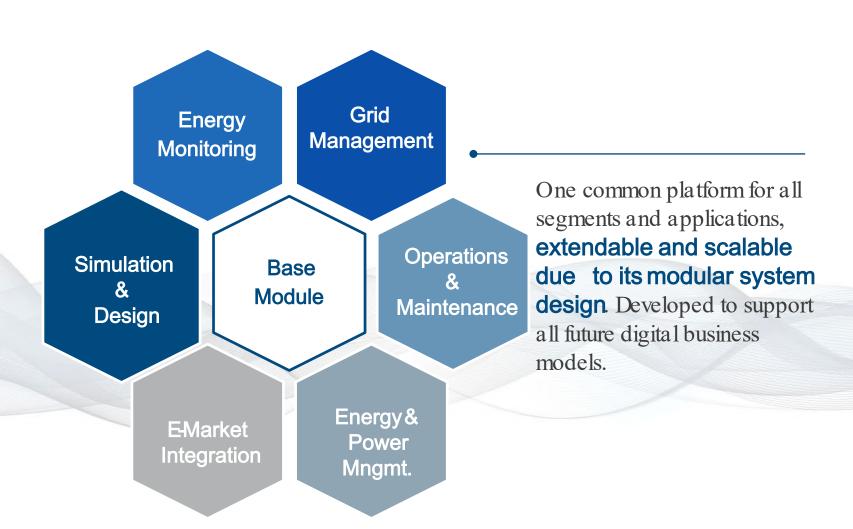
Manage the complex world of energy easily

Access to the quickly changing energy market of the future



BEREADY FOR THE FUTURE TO DAY





SUNNY DESIGN PRO



A new dimension of integrated system design

Cross-sector view on residential and commercial energy systems, their energetic, environmental and economic benefits

Advanced features

- Cross-sector simulation of energy systems
- Integrated energy management for PV, battery storage and thermal components
- Battery storage simulation for peak load shaving
- Tariff management
- Detailed energy and load analysis
- Extended project documentation



MONITORINGAND CONTROL



Data recording and monitoring as well as control of decentralized PV systems is even simpler, faster and more efficient than before with this solution.

Specifically tailored to the needs of PV system operators, PV system managers and service technicians featuring fundamental innovations.

- Two powerful components perfectly match each other
- Cutting-edge, uniform UI design
- Future-oriented functions for an automated grid management service
- Access to the quickly changing energy market of the future via ennexOS



SMA Data Manager M and Sunny Portal powered by ennexOS

DATA MANAGER M AND SUNNY PORTMERED BY ennexOS



Thenewly refurbished SunnyPortal

(world's largest PV monitoring portal)

Hierarchical navigation and administration

- Designed for comprehensive and complex system portfolios
- Clear dashboards for the entire portfolio
- Easy configuration and monitoring of the entire portfolio

Insight view

 Portfolio and system analysis, incl. energy balance and storage system display

Configuration and commissioning

- Convenient and secure remote configuration of the Data Manager and inverter
- Less configuration effort





LEARN MORE?



SMA in General

- Established in 1981 in Germany
- Global market leader
- Installed base of 70 GW worldwide
- Highest quality and innovative products
- Manufactured in Germany

SMA in Israel

- Strong and reliable local representative:
 BOSCHLedicoGreen Energy, Rishon Le Zion
- Active in Israel since 2008
- Approx. 750 MW installed base year to date
- Local Spare Parts Warehouse
- Local Service Technicians

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DIGITALISATION & SOLAR





ENERGY IS CHANGINGE THE CHANGE







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