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Breakout Session

Serial Modernization. The Fast, Economical and Scalable Path to Net Zero

Analyst and Investor Day Bochum July 1, 2025







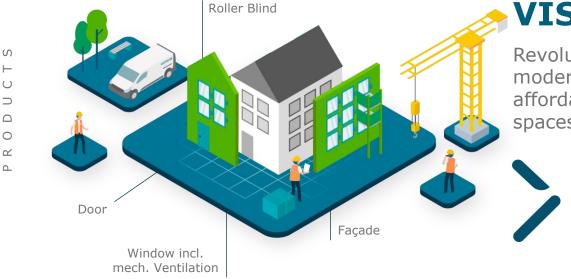
1. Product Presentation: Serial Modernization

2. Technical Deep Dive: All-in-one Façade

3. Technical Deep Dive: Laser Scanner

4. Project Example: Garmisch-Partenkirchen

VONOVIA Serial Modernization with Industrial Prefabrication as a Supplement to Conventional Modernization



VISION & MISSION

Revolutionize the standards for modernization and preserve livable, affordable and resource-efficient living spaces for future generations.

> Serial, sustainable and technology-driven modernization of existing properties to ensure climate neutrality by 2045 as an important investment driver.

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Serial Energy Modernization: the Revolution in Renovation of Existing Buildings



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Focusing on All-in-one Façade to Accelerate Scaling of VONOVIA Serial Modernization

Building Blocks of Serial (Energy) Modernization:

Out of Focus¹

Photovoltaic System

Supply of the in-house plant technology for electricity and heating requirements

Out of focus¹

Heating

Modular prefabricated units for hot water and space heating



Current Focus of Modernization Project

All-in-one Façade

Current serial focus

Prefabricated in timber panel construction, incl.:

- > Façade elements
- > Doors
- > Windows incl. mech. ventilation
- > Roller blind

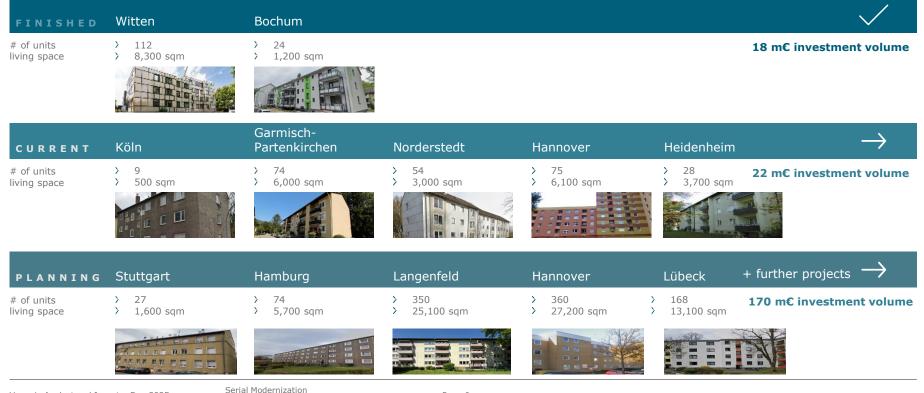
+ Related Modernization Measures

Additional project-specific measures, e.g.

- > Surrounding area
- > Staircase
- > Electrical installation

¹ Sequential approach: facade first to set the building up for heat pump readiness, then heating

First Projects to Pilot Serial Modernization and to Qualify Partners are Already Being Realized



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The Next Step towards Cost Optimization in Serial Modernization Lies in Scaling

Design2Cost Measures

- First pilot projects implemented and experience gained
- First cost savings (up to 50%) through Design2Cost measures
- Change of approach from holistic modernization (including heating) to focus on the façade

Focus on the All-in-one Facade

- > Identification of targeted cost corridor for maximum rental allocation for façade and related measures
- > Development of first strategic partnerships to optimize product development and costs

Scaling Serial Modernization

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 Further development of innovative products and reduction of product costs
Further cost effects through scaling

ACHIEVED 2 finished, 4 ongoing ~1,000-1,300€/sqm

TARGET PRICE (competitive price to conventional modernization)

~450-550€/sqm for maximum rental allocation of up to 3€/sqm for all-in-one façade

FURTHER POTENTIAL Purchasing advantage and scaling effects

Costs of Serial Modernization in €/sqm living space

Selection Criteria for serial Projects Focus on the Viability of Pure Façade Modernization without Heating

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Desktop research

Based on 55,000 buildings



¹ Modernization allowance to increase rents by up to 8% of investment amount ² From year 6 onwards

Standardization through the Development of an All-in- VONOVIA one Façade for Maximum Scaling Potential LIVE DEMO



FOCUS SCALABLE ALL-IN-ONE FAÇADE

Façade Elements Prefabricated timber frame construction or insulation elements

Doors

House entrance doors and cellar/roof entrance doors made of aluminum

Windows incl. Mechanical Ventilation Triple-glazed windows

Roller Blind

Thermal insulation glazing and shutters

Related Measures Additional project-specific measures

High Tolerances and Deviations in the Existing Building VONOVIA are the Challenges for Serial Prefabrication LIVE DEMO

3D-Scanner





Cologne, Buchforststraße



> Benefits

- 🔌 High precision
- Collection of potentially relevant data



Data basis for BIM¹ utilisation

Highest speed

Quality assurance

¹ Building Information Modelling.

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Use of 3D-Scanner

- > Internal measurement for preliminary planning
- External measurement of the general contractor for planning and production
- > External measurement necessary for warranty reasons

Shifting Revenue from Energy Suppliers to Vonovia through Reducing Energy Consumption at Large Scale

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- Fact sheet -Garmisch-Partenkirchen

Project example: Garmisch-Partenkirchen

Scope of Modernization

Façade

- Prefabricated façade modules including insulation and windows provided by Baufritz
- Integrated ventilation with heat recovery
- > Existing balconies remain in place

Electricity

 Installation of a photovoltaic system on the roof

Heating

- Installation of pellet heating
- > Existing radiators remain in place

KPIs

Revenue	Ø Net cold rent increase	2.1 €/sqm
	Ø Warm rent increase	0.9 €/sqm
Invest	Total invest	5.7 m€
Inv	Net invest after subsidy	3.8 m€
		·
Profit	Rental yield ¹	6.5 %

Project Description

Key Facts

- > 13 Building entrances
- > Built in 1975
- > 74 Units with
- > ~ 6,000 sqm living space

Execution

- A+ (after MOD) 49 kWh/sqm
- **G** (before MOD) 233 kWh/sqm

Construction Time

- > Serial on average 4 times faster than conventional modernization
- > Labour intensity reduced by 50%
- ¹ (Incremental in-place rent following modernization + incremental reletting rent + CO2 tax savings) / (construction cost subsidy interest advantage).

Summary: Serial Modernization just Becoming Product- VONOVIA ready and Will Be More than an Economic Alternative

Serial modernization offers an **economical alternative** and supplement for a **faster** path to climate neutrality of the portfolio.

First modernization projects implemented. **Focus** on all-in-One **Façade** initiated for **Iower** building **cost** and **faster scaling**



Results and learning of first projects show technical **readiness of serial modernization** for energy modernization

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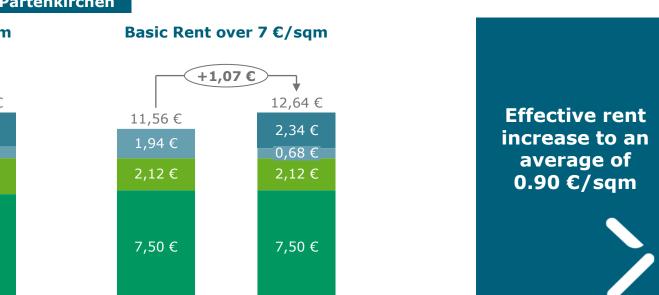
BACK-UP

Impressions from the Construction Site in Garmisch- VONOVIA Partenkirchen

Project Example: Garmisch-Partenkirchen

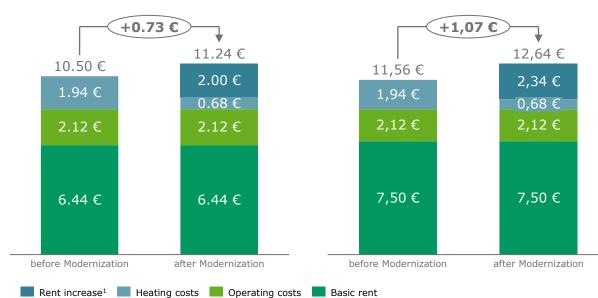


Modernization-related Rent Increases Are Kept Low by VONOVIA Saving on Heating Costs



Project Example: Garmisch-Partenkirchen

Basic Rent up to 7 €/sqm



¹ Rent increase results from maximum increase minus interest advantage and subsidy plus heating allocation.

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