

OEGNB

Open Source Building Assessment

DI (FH) Beate Lubitz-Prohaska
austrian institute of ecology
pulswerk

Bezirksgericht Bruck an der Mur



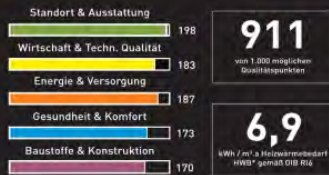
Architektur: Pittino & Ortner
Architekturbüro ZT-GmbH
Haustechnik: TB Köstenbauer & Sixt GmbH
Bauphysik: Rosenfelder & Höfler GmbH. & Co KEG
Qualitätssicherung: E7 - Energie Markt
Analyse GmbH

Bauherr: ARE Austrian Real Estate

Objektadresse:
8060 Bruck an der Mur, An der Postwiese 8

Das Bezirksgericht aus den 60er Jahren wurde im Rahmen eines umfangreichen Demonstrationsprojekts nicht nur optisch und architektonisch auf Vordermann gebracht: Auch in Sachen Energieeffizienz konnte im Bezirksgericht Bruck an der Mur ein neuer Standard gesetzt werden. Alternative Energieversorgungssysteme (Erdwärme, Solarwabenfassade, Photovoltaik, Nachtlüftungssystem) sorgen für einen deutlich niedrigeren Verbrauch. Zusätzlich dazu wurde ein umfassendes Monitoringsystem installiert, welches nicht zuletzt auch zur Tageslichtoptimierung eingesetzt wird.

ÖGNB und TQB werden gefördert von:



The **ÖGNB quality label** is based on the TQB assessment system.

TQB (Total Quality Building) is a planning, assessment and quality control tool for the building sector tailored to Austrian construction practice.

First of all, TQB aims at building optimization in the planning stage.

It includes a criteria and goal catalogue, which defines requirements for sustainable buildings, and the procedure for assessing and receiving an energy performance certificate ("Building Passport").

Giefinggasse, Wien: ENERGYbase Client: Wiener Wirtschaftsförderungsfonds	Office building with research infrastructure New construction	
Innsbruck, Tirol: Josef-Franz-Huter-Straße / Sieglanger Client: WE Wohnungseigentum Tiroler gemeinnützige Wohnbau GmbH	Residential building New construction	
Niklasdorf, Steiermark: Eine Welt Handel AG Betriebsgebäude Client: Eine Welt Handel AG	Whole sale store New construction	
Linz, Oberösterreich: Passivhaussanierung Markartstraße Client: GIWOG	Residential building Renovation	
Ludesch, Vorarlberg: Gemeindezentrum Ludesch Client: Marktgemeinde Ludesch	Community centre New construction	
Kierling, Niederösterreich: Passivhaussanierung Kierling Planung Client: BUWOG	Residential building Renovation	
Schwanenstadt, Oberösterreich: Passivhaussanierung Schule Schwanenstadt Client: Stadtgemeinde Schwanenstadt	School building Renovation	
Stadl-Paura, Oberösterreich: ChristophorusHaus Client: MIVA	Multifunctional building New construction	



ÖGNB
Österreichische Gesellschaft
für Nachhaltiges Bauen

Various criteria
frameworks are available
for new construction and
renovation and all types
of building use.

180 residential buildings

40 office buildings

50 projects in preparation

**Buildings assessed with
TQB (examples)**

ÖGNB assessment criteria (TQB-Tool)



ÖGNB
Österreichische Gesellschaft
für Nachhaltiges Bauen

	Category and criteria (German original)	English translation
A	Standort und Ausstattung	Location and amenities
A.1	Infrastruktur	Infrastructure
A.2	Standortsicherheit und Baulandqualität	Security
A.3	Ausstattungsqualität	Amenities
A.4	Barrierefreiheit	Accessibility
B	Wirtschaftlich und technische Qualität	Economical and technical quality
B.1	Wirtschaftlichkeit im Lebenszyklus	Life cycle cost assessment
B.2	Baustellenabwicklung	Construction site management
B.3	Flexibilität und Dauerhaftigkeit	Flexibility and longevity
B.4	Brandschutz	Fire prevention
C	Energie und Versorgung	Energy and water
C.1	Energiebedarf	Energy consumption
C.2	Energieaufbringung	Energy production
C.3	Wasserbedarf und Wasserqualität	Water consumption and water quality
D	Gesundheit und Komfort	Health and comfort
D.1	Thermischer Komfort	Thermal comfort
D.2	Raumluftqualität	Indoor air quality
D.3	Schallschutz	Noise protection
D.4	Tageslicht und Besonnung	Daylight and sun
E	Ressourceneffizienz	Resource efficiency
E.1	Vermeidung kritischer Stoffe	Avoidance of harmful substances
E.2	Regionalität, Recyclinganteil, zertifizierte Produkte	Quality of products (local production, recycling material, certified products)
E.3	Ökoeffizienz des Gesamtgebäudes	Eco-efficiency of the entire building
E.4	Entsorgung	Demolition and disposal

News[About ASBC](#)[TQB Assessment](#)[ASBC Projects](#)[ASBC Partnerships](#)[edit](#)**NEWS + NEWS + NEWS + NEWS + NEWS****ENGLISH VERSION OF THE ASSESSMENT TOOL IS ONLINE!**

Vienna, Sept. 25th 2013 The assessment system of the ASBC becomes more international. Starting now an Austrian building assessment tool is offered free of charge in English language first time. ASBC offers a comprehensive online assessment tool and certification procedure & scheme which can be adopted easily in different languages. The now offered system works for residential buildings. The ASBC assessment system is offered for professional building assessment, and education and training in sustainable constructions, too.

[Here you can test the English version of our assessment system!](#)

More than 75 buildings certified! aspern Seestadt, Eurogate and many more are in development!

Vienna, Sept. 21st 2013 The free of charge offered assessment system of the ASBC becomes more and more important in the Austrian construction sector. Dealing with the strongest performance indicators for the assessment of building's sustainability, the tool is available to all

[News](#)[About ASBC](#)[TQB Assessment](#)[general procedure](#)[declaration](#)[handover](#)[verification of proof](#)[approval](#)[publishing](#)[TQB nominal charge](#)[testing the TQB-tool](#)[ASBC Projects](#)[ASBC Partnerships](#)[edit](#)

General procedure of a ASBC assessment using TQB

The general procedure is carried out in five steps:

1. **Building documentation** using online **declaration tools**; carried out by ASBC consultants who are appointed by the Austrian Sustainable Building Council
2. **Handover of submitted project** to the Austrian Sustainable Building Council and application for building surveying (draft contract ASBC - proprietor - German language content)
3. **Verification of proof** by ASBC auditors, which are listed by the Austrian Sustainable Building Council (draft contract ASBC - third-party auditors - German language content), if necessary revision of proof by ASBC consultants
4. **Approval of assessment results** by ASBC after consulting with submitters
5. **Publication of assessment results** in ASBC press, above all on ASBC website

Learn more about the assessment procedure, see navigation on the left side ...

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Testversion of the TQB Tool

You can not save your files or upload any kind of data to our system. The demo version is only for testing and get some impressions how TQB is working.

[export](#)

GENERAL BUILDING INFORMATION

Location and Facilities

Economy and Technical Quality

Energy and supply

Health and comfort

Resource efficiency

0

of 1000 available credits

verHousing_V1.0.1

[show all](#)


housing (en): Demo-Projekt

1000

0

General building information ▾

A Location and Facilities ▾

200

0

B Economy and Technical Quality ▾

200

0

C Energy and supply ▾

200

0

D Health and comfort ▾

200

0

E Resource efficiency ▾

200

0

The assessment categories A, B, C, D and E are weighted with 200 possible credits in each case. Below this assessment categories you will find the second assessment structure, including up to four assessment topics. The definite assessment criteria are on the third level of our structure.

If you want to store your projects and data, then you have to register. The use of our system is free of charge. After successful registration you receive an access to the full version from TQB.

GENERAL BUILDING INFORMATION



verHousing_V1.0.1

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[export](#)



housing (en): 1 ENGLISH Plusenergieverbund
Reininghaus Süd_Stand-2013-03-06

1000 880 ☒

General building information ☒

A	Location and Facilities	200	158 <input checked="" type="checkbox"/>
B	Economy and Technical Quality	200	160 <input checked="" type="checkbox"/>
C	Energy and supply	200	190 <input checked="" type="checkbox"/>
D	Health and comfort	200	187 <input checked="" type="checkbox"/>
E	Resource efficiency	200	185 <input checked="" type="checkbox"/>

GENERAL BUILDING INFORMATION



ver.Housing_V1 0 1

[show all](#)

[show an overview](#)



housing (en): 1 ENGLISH Plusenergieverbund
Reininghaus Süd_Stand-2013-03-06

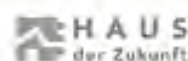
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880

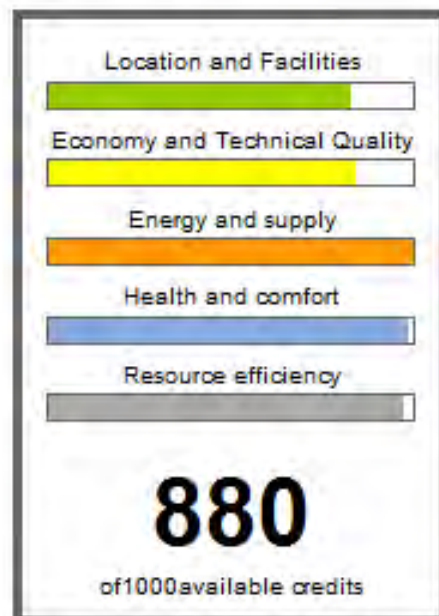
[export](#)

C	Energy and supply ▾	200	190
C.1	Energy demand ▾	75	75
C.2	Energy generation ▴	75	75
C.2.1	Primary energy demand (PEB) ▾	50	47
C.2.2	Photovoltaic system ▾	20	0
C.2.3	Energy efficient ventilation system ▾	10	10
C.2.4	CO2-emissions from building operation ▾	50	38
C.3	Water demand and water quality ▾	50	40

[Impressum](#) | [Sitemap](#)



GENERAL BUILDING INFORMATION



enerHousing_V1.0.1

[show all](#)

[show an overview](#)



housing (en): 1 ENGLISH Plusenergieverbund
Reininghaus Süd_Stand-2013-03-06

1000

880 ☒

[export](#)

C	Energy and supply	200	190	<input checked="" type="checkbox"/>
C.1	Energy demand	75	75	<input checked="" type="checkbox"/>
C.2	Energy generation	75	75	<input checked="" type="checkbox"/>
C.2.1	Primary energy demand (PEB)	50	47	<input checked="" type="checkbox"/>
C.2.2	Photovoltaic system	20	0	<input checked="" type="checkbox"/>
C.2.3	Energy efficient ventilation system	10	10	<input checked="" type="checkbox"/>
C.2.4	CO ₂ -emissions from building operation	50	38	<input checked="" type="checkbox"/>
<p>Points calculation CO₂ emissions derived from final energy demand according to OIB guideline 6 verification procedure [kg CO₂ equiv./m²BGFA] (heating and hot water preparation incl. required auxiliary electricity of heat supply, solar and ventilation systems) regardless of the building's compactness</p> <p>[click for more information]</p> <p>CO₂ emissions</p> <p>9,61</p> <p>kg CO₂ equiv./m²BGFA </p> <p>[click for more information]</p>		50	38	
<p>Verification</p> <p>[click for more information]</p> <p>[upload of a new file]</p> <p>PEBCO2.pdf </p> <p>IMBT-monitorPLUSTQBERS.C.2.4.pdf </p>				

[Einleitung zeigen](#)



Demo-Projekt

1000 460

Gebäudedaten ▾

A	Standort & Ausstattung ▾	200	112
B	Wirtschaftlichkeit & techn. Qualität ▾	200	125
C	Energie & Versorgung ▾	200	30
D	Gesundheit & Komfort ▾	200	67
E	Ressourceneffizienz ▾	200	126

GEBÄUDEDATEN

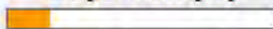
Standort & Ausstattung



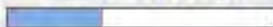
Wirtschaftlichkeit & techn.
Qualität



Energie & Versorgung



Gesundheit & Komfort



Ressourceneffizienz



460

von 1000 möglichen
Qualitätspunkten

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**THANK YOU FOR YOUR
ATTENTION!**

www.oegnb.net