

GEMINI next Generation project



**Effective climate protection is
only possible with an increase
in living standards**

Effective climate protection is only possible with an increase in the standard of living. Effective climate protection is only possible if the majority of the population can and want to afford it.

For most people, living in the countryside, a house with a garden of their own, has become an unaffordable dream; we want to turn it into affordable living and the best possible contribution by an individual to climate protection.

The Salzburg Building Code is probably one of the strictest in the world in terms of climate protection. Since 2016, the primary energy indicator has been the measure of things. This is a dimensionless number that includes all building materials for the construction of the house and for 30 years household electricity, hot water and room heating. It represents the cost of building and 30 years of living. This expenditure should be as small as possible. Over 48 there is no building permit, with 20 to 27 one receives 2,000 EUR more housing subsidy, with 20 to 13 3,000 EUR more, under 13 it is even 4,000 EUR more.

In the provisional energy certificate, GEMINI next Generation achieves the previously unimaginable value of -263.67. Expenditure for building and 30 years living less than zero? This is due to the fact that the primary energy indicator also includes the 18,575 kWh forecast annual electricity generation from 22 kW photovoltaics at the Unken - Niederland site.

This value in an area in which no architect has ever advanced before underlines the claim to create a completely new class of houses: the climate protection superiority house.

If Austria expands photovoltaics to the extent required by the Paris Agreement, it will not be possible without a great deal of additional electricity storage. As the endless story about the 380 kV line to enable the further expansion of Kaprun shows: This will probably not be possible with any more pumped storage power plants.

We believe that decentralised electricity storage facilities are the cheapest solution for everyone. Therefore, the basic version already has 40 kWh lithium iron phosphate batteries, which can be expanded up to 160 kWh. This enables not only a needs-based grid feed-in, but also that you can charge your electric car at night with your own solar power.

It can be assumed that all homeowners will soon buy electric cars, because they can't bear to sell electricity for 5 cents/kWh and pay 1.20 EUR per litre of diesel at the petrol station. On average, an electric car needs 16 kWh/100 km, with the sales revenues of 16 kWh you can only buy 2/3 liters of diesel.

Since 21 August 2019, Unken has been the favourite for the first model settlement. On December 4th, the local council gave the mayor a mandate to negotiate the use of the property with us.

Situated at the end of a dead end road, the turning hammer, 10 parking spaces and 80 m² of snow storage area were a problem to accommodate 5 houses. The problem turned into the idea of simply providing sidewalks and turning hammers with floor heating. For the requirements of snow melting, our heating system can generate 10 kWh of heat from 1 kWh of electricity.

Life should become more comfortable. So we say shovel snow no thank you, sprinkle de-icing agent, no thank you! A long dry period threatens the carefully maintained garden? 30 m³ rainwater storage can help! This is also used as a "thermal anchor" at the same time, as up to 500 kWh of heat can be stored. The air heat pump works only on the warmest hours of the day, cold waves are skipped.

For Unken only the 64 m² living area version is planned, the 98 m² XL version will only be used in later projects. The basic version will be available from 90.000 EUR for pickup customers. Pickup customers assemble their house in a hall belonging to the Neromylos company and transport it to the building site in 6 segments. B+E driving licence is enough to pull 3.5 tons of trailers.

We are still looking for interested customers for our first sample project. Furthermore, people who want to invest time or money to acquire shares in a planned company foundation. In 2020 the first model settlement, starting in 2022 more and more branches worldwide.

Roland Mösl

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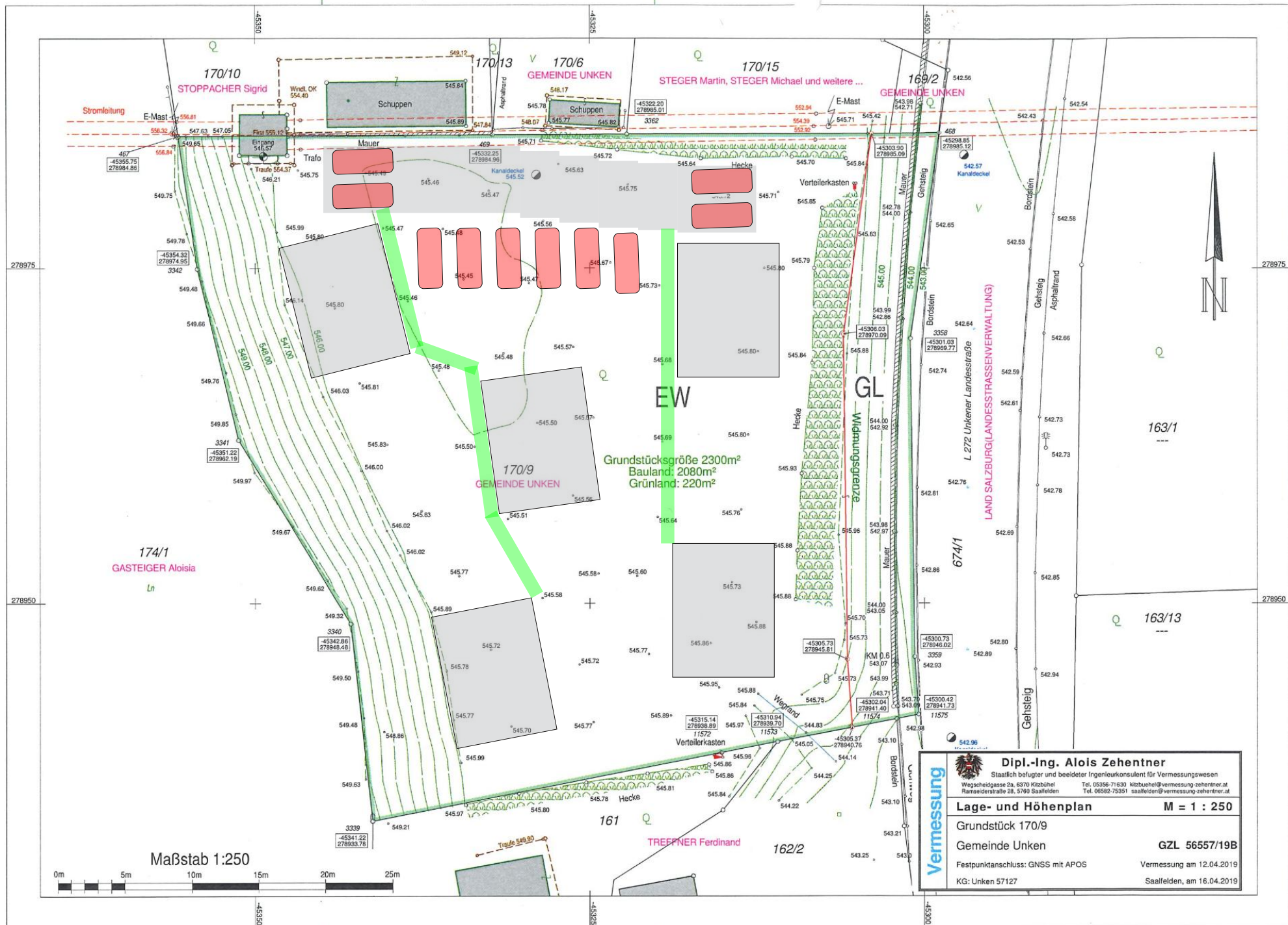
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to web site

to GEMINI Pdf

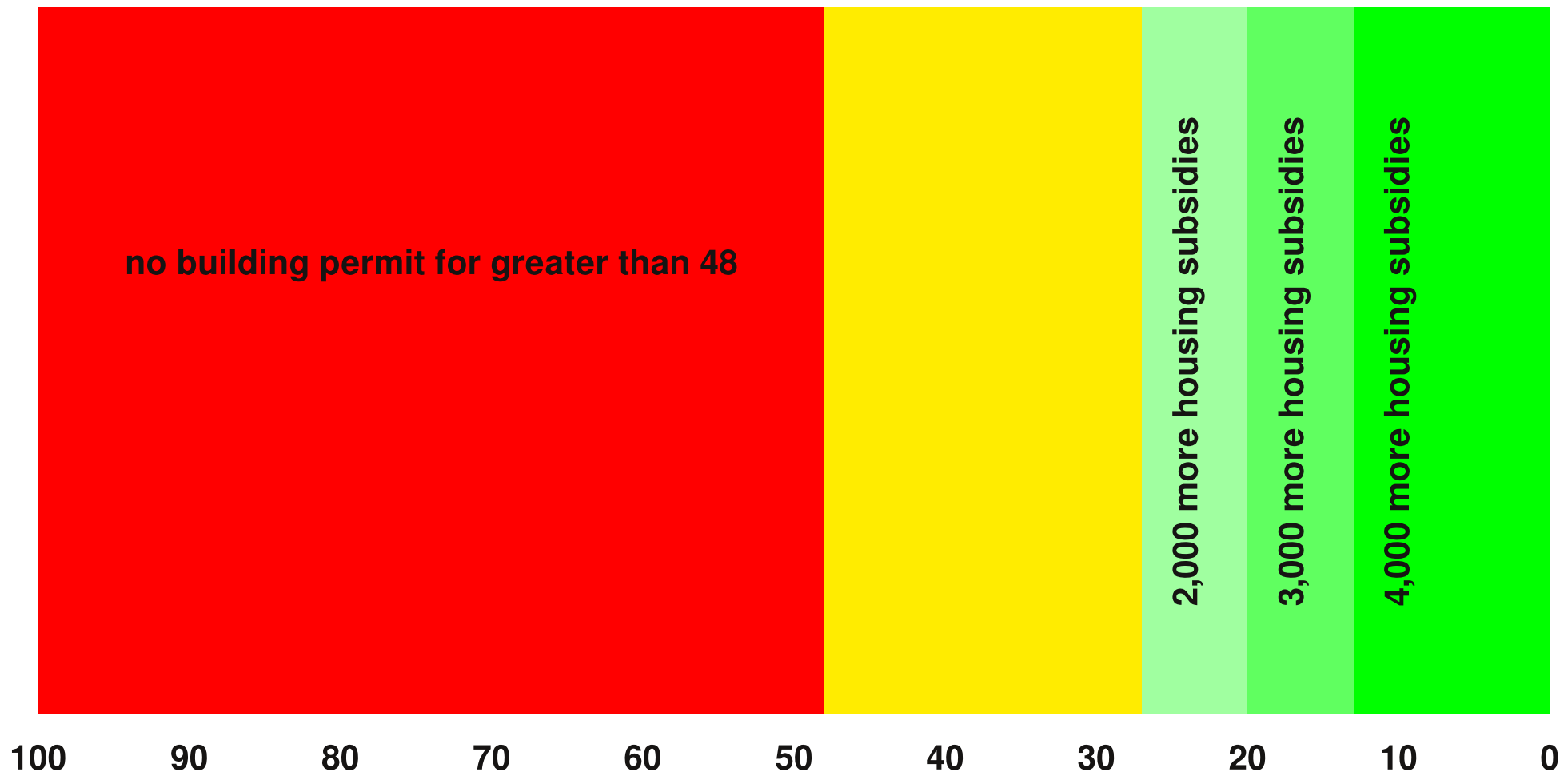
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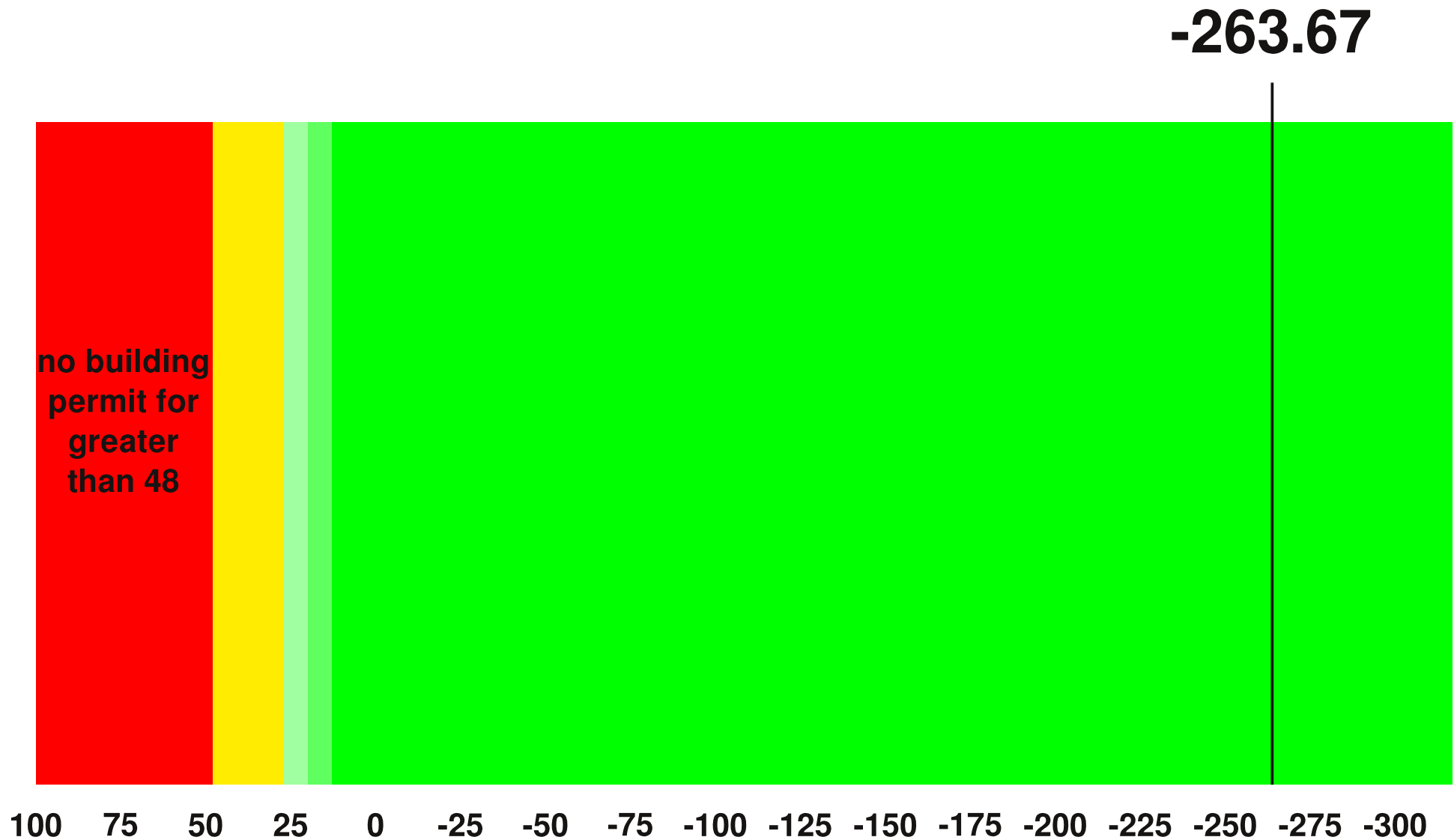
Primary energy indicator (Pi value) for Salzburg

The Salzburg Building Technology Ordinance (S.BTV) 2016 in Salzburg also brought a new requirement value: primary energy indicator (Pi value).

The primary energy indicator - a dimensionless value - is considered the overall energy efficiency indicator in Salzburg.



Changing perspectives, setting new standards



5 m long, 2.53 m wide house segments are manufactured in a hall and then driven to the construction site on a special car trailer.



Electricity yield converted into rapeseed

There is no form of energy as ridiculous as biofuel. We must not count them as renewable energy because the yield has nothing to do with the requirements.

There's 7.6 hectares of rapeseed growing there. But with all the vegetable oil from the rape cultivation, diesel cars only get as far as an electric car with the yield of photovoltaic from a single GEMINI next Generation house. There is also a family living on the tiny 400 m² property.

1 ha

1 ha

1 ha


1 ha

1 ha

1 ha

1 ha





We choose daily: with every km by train,
bus or bicycle, with every holiday
without flight.

With every veggie meal I choose a world
worth living in.

For our children and grandchildren.

Wir wählen täglich:
mit jedem km per
Bahn, Bus oder
Fahrrad, mit jedem
Urlaub ohne Flug,
mit jedem vegi-
Essen... wähle ich
lebenswerte Welt
für unsere Kinder und Enkel.

Can this really be everything an individual
can contribute to climate protection?

In 1979 I helped to prepare the first bicycle
demonstration in Salzburg as an activist for
“Aktion Umwelt”.

In 1991 I started the project GEMINI
habitable solar power plant. In 1992 I
published my first book about this project,
“Advance to the Solar Age”.

Overflowing with awards, only the GEMINI
House in Weiz remained, which was the main
attraction of the Styrian regional energy
exhibition in 2001.

27 years after the design of the GEMINI
habitable solar power plant, the project
“GEMINI next Generation” started.

What is the CO2 balance like?

Probably this cyclist lives in a rented or
condominium, no chance for large photo-
voltaik areas.

The long-distance commuter in a GEMINI
next Generation house with his electric car
has a much better balance here:

10,000 kWh surplus electricity can be
calculated as MINUS 7.5 t CO2 emissions.

With the usual rental costs in Salzburg, he
probably spends more money on housing and
mobility than the residents of a GEMINI next
Generation during the loan repayment on a
cheap building site.

Roland Mösl

Aufstieg zum Solarzeitalter



eine Veröffentlichung der



Prehistory since 1991

The name "GEMINI next Generation" implies that there was also a first generation.

The project "GEMINI Inhabitable Solar Power Plant" started in autumn 1991, I wrote the book "Advance to solar age" about it in 1992.

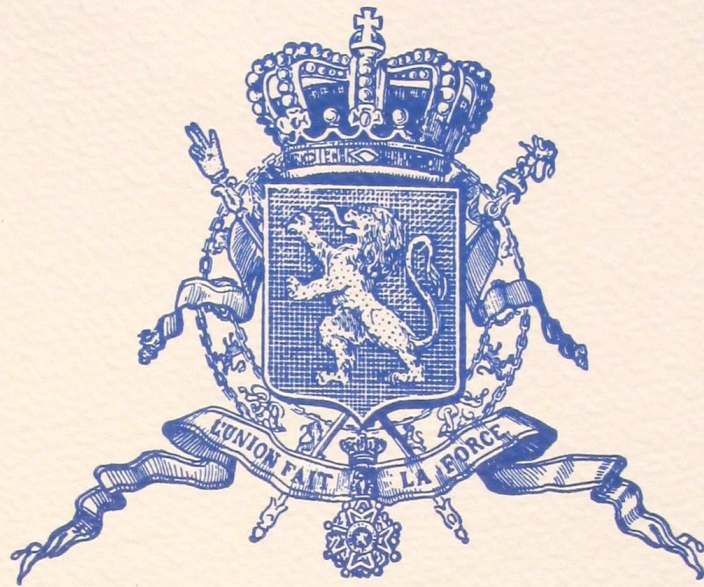
Central thesis: The annual electricity demand will increase from 500 TWh to 1,200 TWh with a conversion to renewable energy. Every new house should make an adequate contribution to this:

1200 TWh

————— • 2 per house

80 million inhabitants

= 30,000 kWh



MERITE DE L'INVENTION

PUBLICATION AU MONITEUR BELGE DU 13 FEVRIER 1954

La Commission Supérieure des Récompenses :

Vu les états de services

Vu les services éminents rendus à la cause du progrès,

l'aide apportée aux inventions

et conformément aux articles 2 et 3 des statuts

DECERNE A Mr ROLAND MÖSL

LE PRESENT DIPLOME **de Chevalier**

CROIX N° 1.155 BRUXELLES, LE 10/11/1993

LE PRESIDENT,

UN MEMBRE DE LA COMMISSION,

LE CHANCELIER

**A lot of honour, but no money
to implement the idea.**

Association Communautaire de l'Ordre Européen du Mérite A.C.O.E.M. (a.s.b.l.)
Gemeenschappelijke Vereniging van de Europese Orde van Verdiensten G.V.E.O.V. (v.z.w.)
Gemeinschaftsvereinigung des Europäischen Verdienstordens G.E.V. (V.o.E.)
Community Association of European Order of Merit (non-profit organisation)

Pour une Europe humaine, libre, solidaire, fraternelle, sociale et démocratique. Pour l'Amitié au-delà des frontières, dans le respect de nos différences.
Voor een menselijk, vrij, solidair broederlijk, sociaal en democratisch Europa. Voor vriendschap over de grenzen heen, met eerbied voor onze verscheidenheid.
Für ein menschlicheres, freieres, solidarischeres und demokratischeres Europa. Für Brüderlichkeit über die Landesgrenzen hinaus, bei gegenseitiger Achtung für unsere Unterschiede.
To promote human dignity, freedom, solidarity and democracy in the building of a united Europe. To encourage friendship which transcends national frontiers and individual differences.


Diplôme d'Honneur - Erediploma - Auszeichnung - Honorary Degree

Décerné à
Toegekend aan
Verliehen an
Awarded to

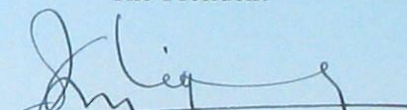
Roland Mösl

Bruxelles, le
Brussel, de
Brüssel, den
Brussels, the 24 juin 1994.

Le Secrétaire général
De Secretaris-generaal
Der Generalsekretär
The Secretary-general



Le Président
De Voorzitter
Der Präsident
The President


Paul Cliquet

Diplôme - Diploma - Diplom - Certificate Nr 94-A12



Chi poco pensa,
molto erra
LEONARDO DA VINCI

La musica
è una delle vie
per le quali l'anima
ritorna al cielo

TASSO



Lume v'è dato
a bene ed a malizia

DANTE



La nobiltà
non si acquista
nascondendo, ma vivendo

PLUTARCO



Vivere
significa pensare

CICERONE



E la volontà
che fa l'uomo
grande o piccolo

SCHILLER



L'uomo tanto può
quanto sa

BACONE



Il saggio
è sempre modesto

GIUSTI



L'arte rivela i popoli
e ne manifesta
i costumi

GARDUCCI



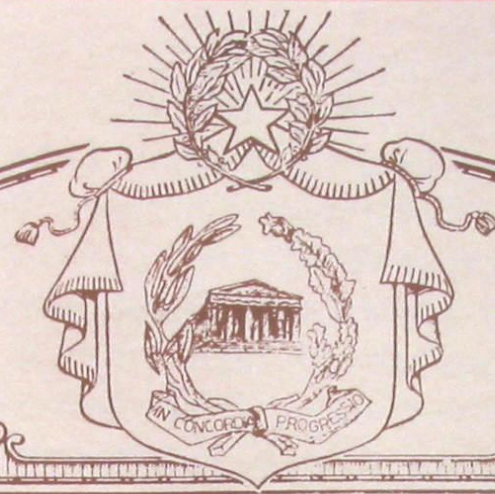
Il nuovo
non s'inventa:
si scopre

PASCOLI



Volli, sempre volli,
fortissimamente volli

ALFIERI



Accademia Universale "Guglielmo Marconi"

Arti - Lettere - Scienze - Roma

IL CONSIGLIO ACCADEMICO

Visti gli articoli e le norme statutarie, considerati e valutati i meriti sociali, umani
e quelli che distinguono nella specifica attività

ROLAND MOSL

ha deciso di nominarlo *"Accademico Benemerito"*
nella "sezione" **energia solare**

con le prerogative, i doveri ed i privilegi inerenti alla partecipazione in seno
all'Accademia.

Data in Roma il **20 - 9 - 1994**

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ARTI
IL PRESIDENTE
(Mons. Mario Pimpo)

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Reg. n. **22** G

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IL SEGRETARIO GENERALE
(Giorgio Mancini)



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molto erra
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SCHILLER



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BACONE



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non s'inventa:
si scopre
PASCOLI



L'arte rivela i popoli
e ne manifesta
i costumi
CARDUCCI



Il saggio
è sempre modesto
GIUSTI

Accademia Universale "Guglielmo Marconi" Arti - Lettere - Scienze - Roma

IL CONSIGLIO ACCADEMICO

Visti gli articoli e le norme statutarie, considerati e valutati i meriti sociali, umani
e quelli che distinguono nella specifica attività

ROLAND MOSL

ha deciso di nominarlo *"Accademico d'Onore"*
nella "sezione" **costruzioni**

con le prerogative, i doveri ed i privilegi inerenti alla partecipazione in seno
all'Accademia.

Dato in Roma, il **20 - 9 - 1994**

IL PRESIDENTE
(Mons. Mario Pimpo)

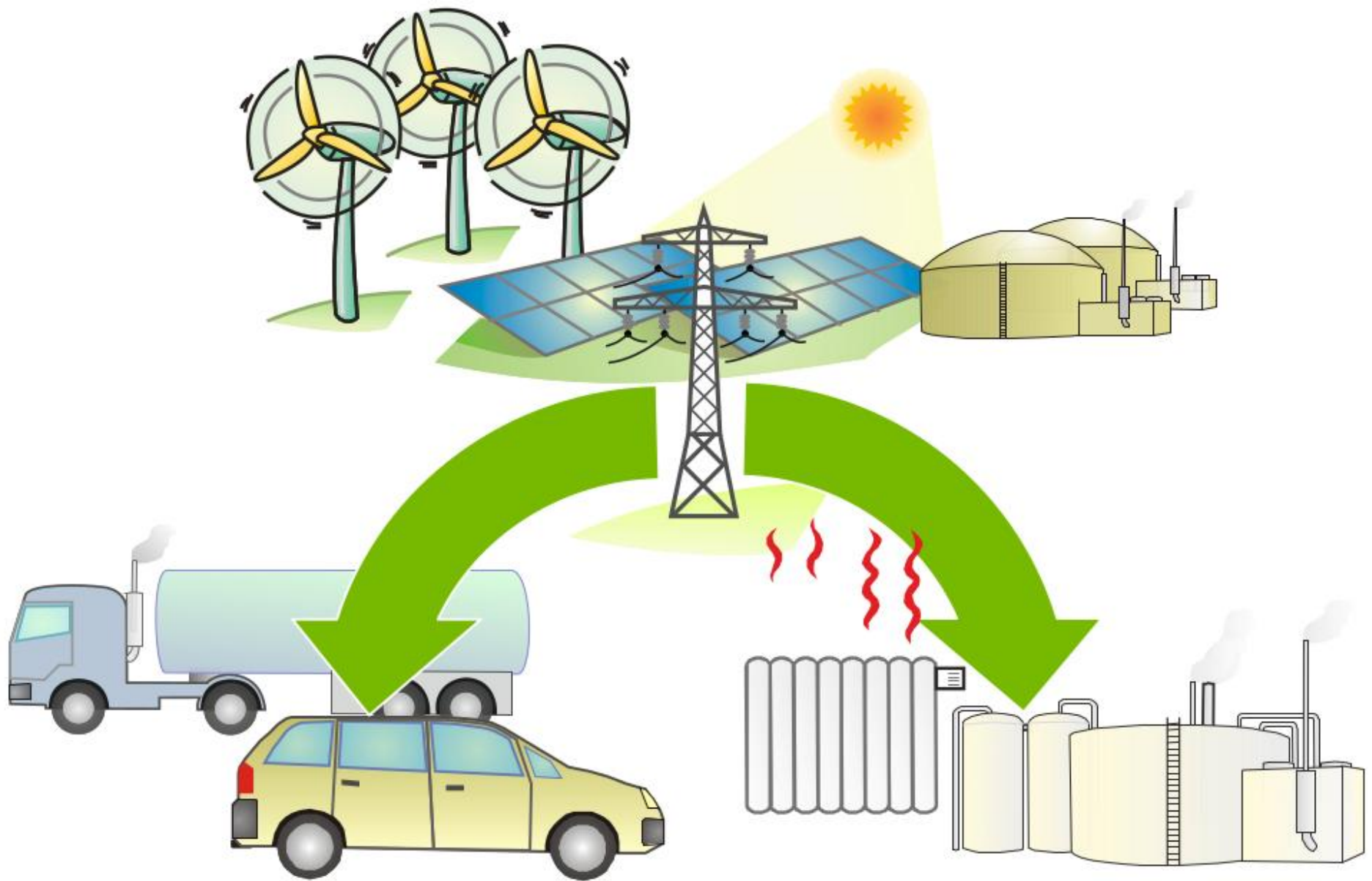
LA PRESIDENZA
Reg. n. **30 M**

Accademia Universale
"G. Marconi"
IL SEGRETARIO GENERALE
(Giorgio Mancini)



It was not possible to establish a GEMINI Solar-house company in 1994.

2001 was a limited version of the GEMINI House, only 8,500 kWh instead of 30,000 kWh annual yield, main attraction of the Styrian regional exhibition for energy.



2016, only incredible 24 years later, the central theory of my 1st book was fully confirmed by the study sector coupling by Prof. Volker Quaschnig.