



MESTNA OBČINA CELJE



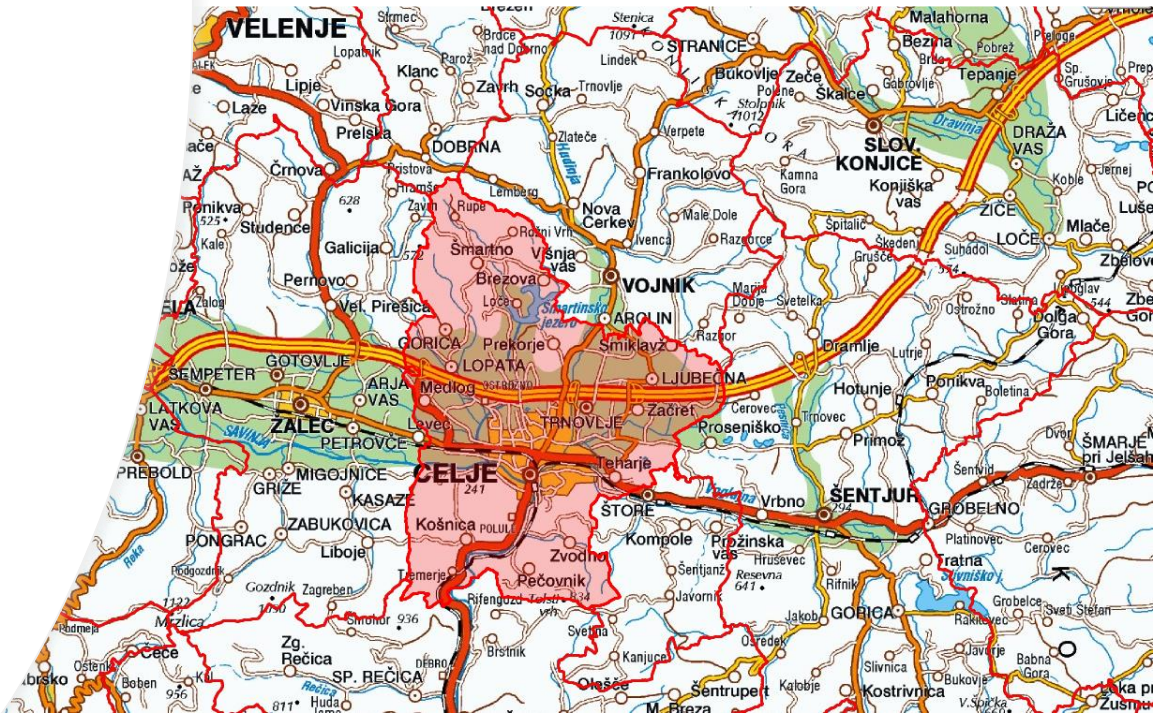
EVROPSKA UNIJA
KOHEZIJSKI SKLAD
NALOŽBA V VAŠO PRIHODNOST

Sustainable public transport powered by CNG in Municipality of Celje



About Municipality of Celje

- Area total: 94,9 km²
- Population: 49.000
- Density: 523/km²



VISION AND OBJECTIVES OF INTEGRATED TRAFFIC

- In the process of preparing the Integrated Transport Strategy, a vision of integrated traffic has been developed, which provides the basis for setting objectives and measures and reads as follows:
- »CELJE - ATTRACTIVE, CONNECTED, ACCESSIBLE AND SAFE CITY «
- Transport in Celje is organized in such a way as to provide an attractive and quality environment for living and contribute to strengthening the role of the economic, cultural and educational center of national importance. It exploits the potential of green urban moves that encourage people to take sustainable forms of mobility.
- On the basis of the vision, the following strategic objectives have been developed:
 - - increase road safety,
 - - increase accessibility for more age groups,
 - - ensure the high-quality integration of the city, small towns and region, including use of smart technologies,
 - - strengthening the economy, culture and education,
 - - increase the attractiveness and quality of the environment and improve the conditions for an active lifestyle,
 - - reduce dependence on motor traffic and change people's travel habits (walk, cycling, public transport).

WHY IS IMPORTANT TO PROMOTE SUSTAINABLE MOBILITY AND WHAT WE GET FROM IT?

- The city of Celje, as an important economic, administrative, cultural, school and tourist centre. Problem is increasing traffic due to its location and the role of the regional and national center. The ring around the town of Celje crosses more than 100,000 vehicles daily, which is similar to Ljubljana, which is more than 7 times the size of the city by surface and population. Every two residents of the Municipality of Celje has his own car, and although most of the town of Celje is accessible by bicycle in less than 15 minutes, residents make 83% of the journey to work by car. Transport and industry in the Municipality of Celje contribute 31% of all PM10 particulate emissions. In 21% of children between the ages of 6 and 15 in the Municipality of Celje, the body mass index exceeds the limit.
- Sustainable mobility (walking, cycling, use of public transport and alternative forms of mobility) contribute to improving air quality, reducing noise, help climate change and contributing to a higher quality of living.
- Walking and cycling have positive effects on our health and are significantly cheaper than using a car.



What is daily mobility???

- is the ability of people to make their way in city
- make daily trips to work, school, pleasure, ...

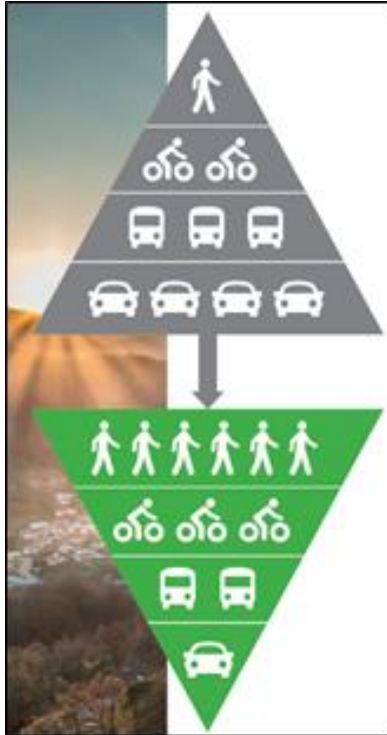
TOMORROW



TODAY



WHAT WE WANT???



ACTION PLAN

5 key of action

- walking
- cycling
- public transport
- optimisation of motor transport
- sustainable transport planning



CNG STATION BUILT IN 2018

ADVANTAGES OF CNG

The installation of a compressed natural gas filling station, worth EUR 795,093 excluding VAT, is one of the measures taken by the Municipality of Celje to reduce the effects on air pollution by PM10 particles and other discharges. A typical compressed natural gas engine releases up to 25 percent less carbon dioxide (CO₂) into the air compared to a petrol engine, up to 75 percent less carbon monoxide (CO), up to 60 percent less hydrocarbons, nitrogen oxides and sulphur dioxide. There's only a negligible amount in the exhaust. Natural gas has a higher energy value than petrol or gas oil – a kilogram of natural gas has a similar energy value to 1.5 litres of gasoline or 1.3 litres of diesel.



The first compressed natural gas filling station in Celje, operated by Energy Celje, has been operating successfully since 28 January this year. By early April, we had sold 13,800 kilograms of compressed natural gas, most for the needs of urban passenger transport (10,500 kg) and 3,300 kilograms to other users of vehicles powered by compressed natural gas.

Users can fill gas 24 hours a day, all days of the year, as the charging station operates self-service. They're going to deduct 0.98€ per kilogram of compressed natural gas.

PUBLIC TRANSPORT (PT)

ATTRACTIVE PUBLIC TRANSPORT

- Increase the use of PT.
- Improving the quality of PT.
- Improving integration between different modes of transport.
- Improving the accessibility of PT for persons with reduced mobility.



CELEBUS

The Municipality of Celje has an entire fleet of compressed natural gas buses. All buses running on six lines are called CELEBUS and are made by the Feniksbus <https://www.feniksbus.com/>

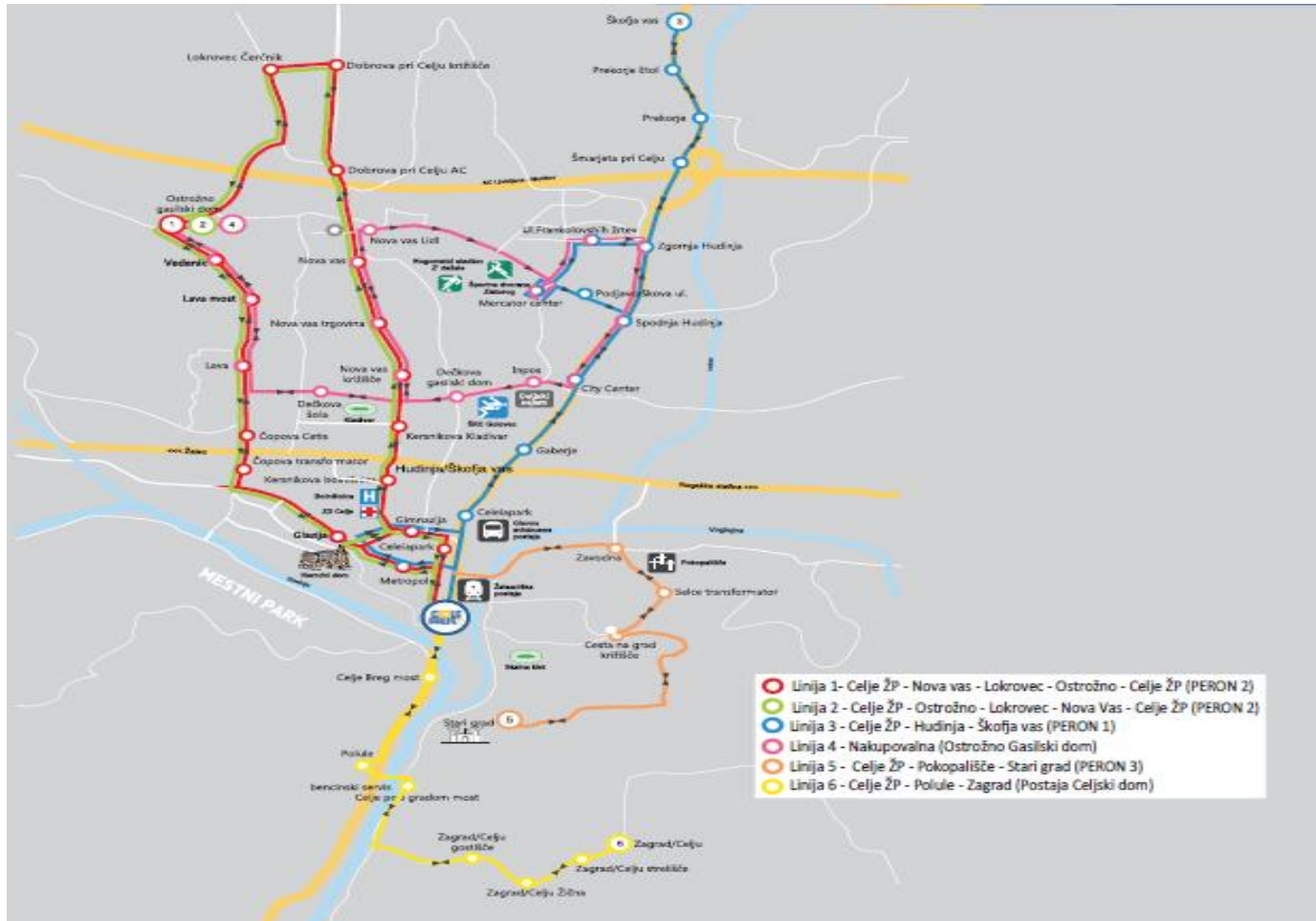
The volume of the tanks of our buses is 40 kg of compressed natural gas and allows the bus range of approx. 250 km. We have our own CNG bottling station in Celje.

The municipality of Celje also plans to expand the lines into more remote settlements, thus providing even greater coverage of the use of Celebus. For expansion, we plan to purchase new CNG fuel buses.



PUBLIC TRANSPORT (PT)

ATTRACTIVE AND USEFULL LINES





CHIP TICKETS

ZAP. ŠT.	VRSTA STORITVE	CENA V €
1.	Dnevna vozovnica ¹	1,00
2.	Enkratna vozovnica - nakup na avtobusu	1,00
3.	Tedenska vozovnica ²	5,00
4.	Mesečna vozovnica ³	15,00
5.	Letna vozovnica ⁴	100,00
6.	Brezstična kartica	5,00

- Opomba: 1* velja za tekoči dan
 2* velja 7 dni od dneva nakupa
 3* velja 1 mesec od dneva prve validacije
 4* velja 1 leto od dneva prve validacije

VOZNI RED Z 20 MINUTNO FREKVENCO

Otroci od 0-6 leta brezplačno (v spremstvu odrasle osebe)

Otroci od 7-15 let 50% popusta na letno vozovnico

Dijaki, študenti, upokojnenci in invalidi 25% popusta na letno vozovnico

Redni linije Linija 01 A / CELJE - MOŠKVA - CELJE

Linija	1	2	3	4	5	6	7	8	9	10	11	12
06:00												
06:15												
06:30												
06:45												
07:00												
07:15												
07:30												
07:45												
08:00												
08:15												
08:30												
08:45												
09:00												
09:15												
09:30												
09:45												
10:00												
10:15												
10:30												
10:45												
11:00												
11:15												
11:30												
11:45												
12:00												
12:15												
12:30												
12:45												
13:00												
13:15												
13:30												
13:45												
14:00												
14:15												
14:30												
14:45												
15:00												
15:15												
15:30												
15:45												
16:00												
16:15												
16:30												
16:45												
17:00												
17:15												
17:30												
17:45												
18:00												
18:15												
18:30												
18:45												
19:00												
19:15												
19:30												
19:45												
20:00												
20:15												
20:30												
20:45												
21:00												
21:15												
21:30												
21:45												
22:00												
22:15												
22:30												
22:45												
23:00												

Vir: Mestna občina Celje, 2023

How many kilometers we drive?

passenger cars



transport vehicle



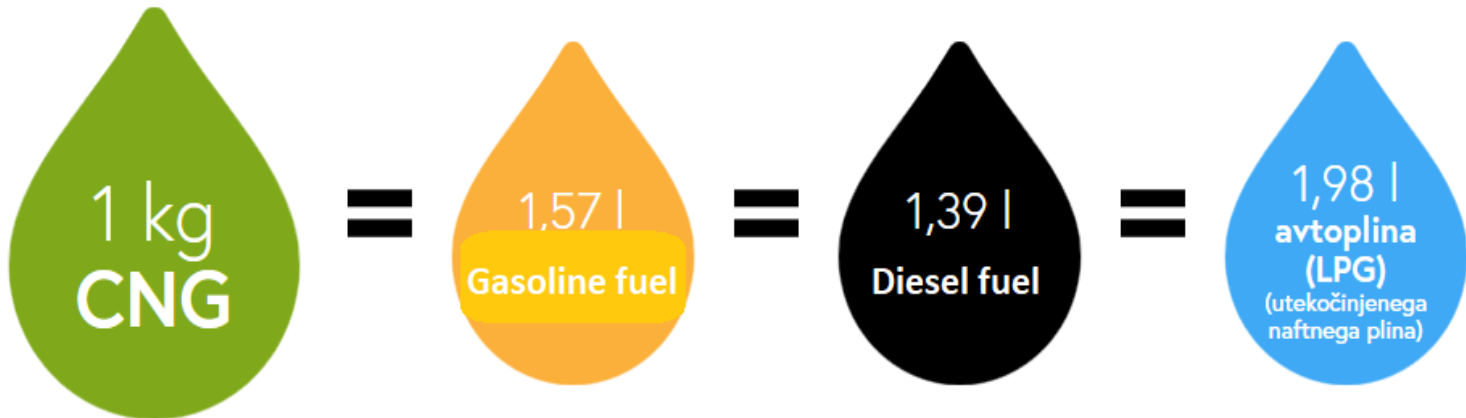
Energy value

The energy value of one kilogram of CNG shall be equal to:

- 1.57 litres of petrol fuel
- 1.39 litres of diesel
- 1.98 litres of autogas.



Energy value



Vir izračuna: Laboratorij za toplotne batne stroje na Fakulteti za strojništvo Univerze v Ljubljani.

TNX FOR YOUR ATTENTION 😊

Miran Gaberšek
miran.gabersek@celje.si