



# Duino Aurisina *experience*

*Chiara Puntar*

*Councilor delegated to EU projects*

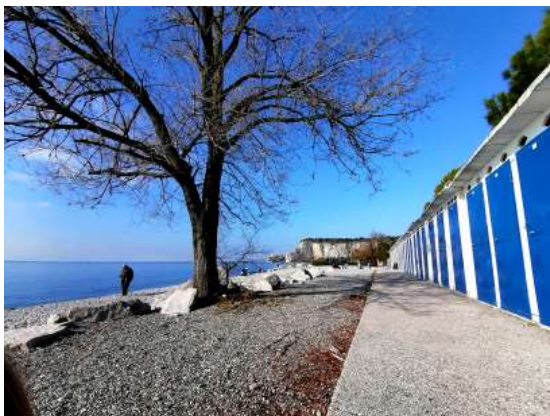
*Empowering Sustainable Energy and Climate Action Plans  
(SECAP) in a wide cross border area - March 30<sup>th</sup>, 2022*

## Comune di Duino Aurisina, Občina Devin Nabrežina





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*In 2012 the Municipality of Duino Aurisina joined the Covenant of Mayors and approved PAES document through its city council.*

*In February 2020 joined to the "New" Covenant of Mayors in coordination with the Municipality of Trieste (linked by common territory, facilities and aim) working on actions for stopping climate change.*



Il sottoscritto, **Daniela Pallotta, Sindaco di Comune di Duino Aurisina – Občina Devin Nabrežina**, è stato designato dal **Consiglio comunale** il **12 febbraio 2020** a firmare il **Patto dei sindaci per il clima e l'energia**, essendo pienamente consapevole degli impegni sottoscritti nel **Documento di impegno** ufficiale e sintetizzati di seguito.

Pertanto, l'autorità locale che rappresento si impegna in particolare a:

- ridurre le emissioni di CO<sub>2</sub> (e possibilmente di altri gas serra) sul proprio territorio di almeno il 40% entro il 2030, in particolare mediante una migliore efficienza energetica e un maggiore impiego di fonti di energia rinnovabili;
- accrescere la propria resilienza, adattandosi agli effetti del cambiamento climatico.

Al fine di tradurre tali impegni in azioni concrete, l'autorità locale che rappresento si impegna a seguire tutte le tappe della seguente tabella di marcia:

- realizzare un **inventario di base delle emissioni** e una **valutazione dei rischi e delle vulnerabilità indotti dal cambiamento climatico**;
- presentare un **Piano d'azione per l'energia sostenibile e il clima** entro due anni dalla data (di cui sopra) della decisione del Consiglio comunale;
- presentare una **relazione di avanzamento almeno ogni due anni dopo la presentazione del Piano d'azione per l'energia sostenibile e il clima per fini di valutazione, monitoraggio e verifica**.

Il sottoscritto acconsente a che l'autorità locale che rappresenta sia sospesa dall'iniziativa, previa comunicazione scritta da parte dell'ufficio del Patto dei sindaci, in caso di mancata presentazione dei documenti summenzionati (vale a dire il Piano d'azione per l'energia sostenibile e le relazioni di monitoraggio) entro i termini previsti.

Autorità locale: **Daniela Pallotta – Sindaco – Comune di Duino Aurisina – Občina Devin Nabrežina, Aurisina Cave, 25 – 34011 Duino Aurisina-Devin Nabrežina (Ts), Italia**

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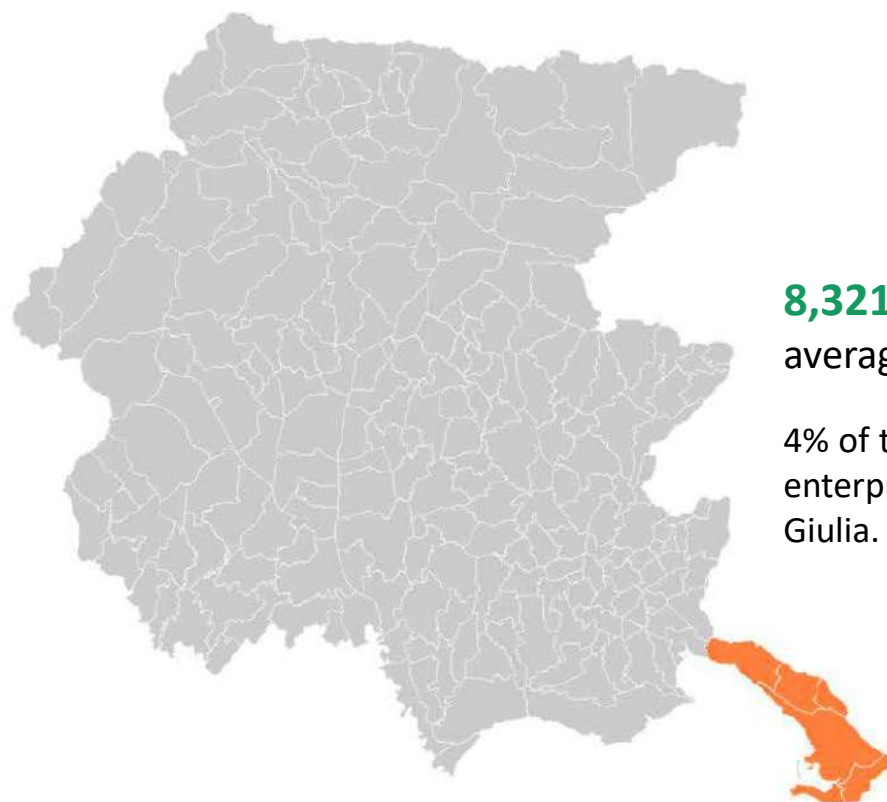
IL SINDACO - ŽUPANJA  
Daniela Pallotta



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## Comune di Duino Aurisina, Občina Devin Nabrežina

The Municipality of Duino-Aurisina covers **45.16 km<sup>2</sup>** of territory with high heterogeneity including a karst hinterland, mouth of the Timavo river, Mediterranean forests, coastal area and urban, industrial and tourist vocation.



**8,321 inhabitants**

average age 50.7 years

4% of the total 93,000 active enterprises in Friuli-Venezia Giulia.



# Duino Aurisina & Trieste: *our aim*

- take advantage of the **technical support** from the Interreg Project SECAP
- drafting a **high level PAESC**

**Coordination** with both municipalities in order  
to find out the **best solutions**

referred to energy policies and climate adaptation







# Duino Aurisina & Trieste:

## Common functional characteristics elements

**Gulf of Trieste**

**Karst**

**the marine biosphere**

some infrastructures and services

road and railway infrastructures

public and rail infrastructures

local public transport service,

**paths**

**cycle paths**

international airport

motorway & airport connection



# Duino Aurisina *highlights*

**Tourist destination** (campsites, b&b, hotel facilities...)

**international contest**

**UWCAD** presence

**palenteological site**

**Duino Castle**

**coastline & sailing**

**marinas** (most populated marinas in all Friuli Venezia Giulia region)

**Timavo river**

**Hipogeal cavity of Mitreo**

**climbing rocks** (by the sea and in countryside)

# Duino Aurisina highlights

**marble sector**, agritourisms, oil,  
honey, **wine**, rural houses and  
peasant **traditions**





# Duino Aurisina highlights

Territory characterized by a **high heterogeneity** thanks to karst hinterland, Mediterranean forests and coastal area

Municipality of Duino Aurisina as a **green** territory

Karst and Coast, for **93%** of its territory.



# Duino Aurisina highlights

**Calcareous** nature intermixed with marble formations, overhanging on the sea.

Most of the area consists of the plateau of carbonate rocks (limestone and dolomite) located between Italy and Slovenia, called Classic **Karst**.

**Regional Nature Reserve of the Duino cliffs**, the only example of calcareous cliffs in the Italian Upper Adriatic.



# *STARTING* our PAESC as a vision for a better future

**Involving stakeholders**

**Political commitment**

**Adaptation of  
administrative structures**





# A vision for the future

PAESC of the Municipality of **Duino Aurisina** represents the beginning of a **long-term process** that aims at identifying and implementing **energy efficiency actions**, citizens' access to safe and **sustainable energy**, and **climate adaptation**.



# Concrete actions



risk and climate  
vulnerability  
analyses, assessment  
and mitigation  
opportunities



identification of  
useful actions



# Systemic approach

Participatory process addressed to  
citizens and stakeholders

Environmental awareness and protection

Energy efficiency

Greater sustainability

Preparing and planning for climate resilience

Focus on territory and people and the quality of life





# MOBILITY actions



**Intelligent mobility** for people in everyday life

**Tourist mobility** to reach all **attractions**: from beaches till mountains, from bed & breakfast till sailing ports

**Slow mobility** for enhancing the value of villages, of our paths and caves in the area, as well as historical and natural points of interest in the territory.

**The mobility we want focuses on the wellbeing of citizens.**

# MOBILITY actions



**More connected mobility**, by strengthening and improving sustainable mobility systems also **through infrastructural, management and regulatory.**

**Usable mobility** by enhancing a **sea mobility**, adopting effective solutions from the point of view of environmental protection and the physical use of spaces.

**The mobility we want focuses on the wellbeing of citizens.**



# MOBILITY actions

Establishment and valorization of **bicycle paths**.

Set up a **bicycle rental system** also with **electric motor** (more suitable for Karts orography).

Realization of **electric charging stations** for bikes and cars powered by photovoltaic panels.

**The mobility we want focuses on the wellbeing of citizens.**





# MOBILITY actions

Efficiency and **electrification** of **private vehicles**.

Promotion and valorization with the aim to gradually **reduce CO2 emissions** as a result of the increase of electric or hybrid electric cars circulating in the municipality.

**The mobility we want focuses on the wellbeing of citizens.**

# Building, Energy and Innovation

Disseminating **innovative and technological vision** as a strong point for current and future well-being.

Holding actions related to **energy efficiency of public and private buildings**, also through specific regulatory measures

Starting **innovative measures** through actions linked to the improvement of small villages by enhancing the existing environment and their own characteristics

Promoting **new and smarter energies**, enhancing and incentivizing the development and use of **renewable energies** while maintaining the specific characteristics of each one of our 14 little different villages

# PUBLIC LIGHTING



Settled actions to implement **new technological solutions related to public lighting**, adhering to the physical characteristics of the Karst villagges and aiming the reduction of electricity consumption (**80,000 €/year reduction**).

**Modernization plan** of the public lighting systems aimed at optimizing energy consumption



# PLANS for climate resilience

System planning aimed at **limiting energy consumption and adapting to climate change** through **mitigation and adaptation measures** to be implemented in urban areas, with the direct involvement of the Municipality and citizens, to reduce consumption and vulnerability of the city.





# PLANS for climate resilience

Spreading the culture of "sustainability" through:

- identification and conversion of **unused areas into green areas**
- **revision of the building** regulations in a "**green city**" **key**
- complete **integration** between PAESC and **other government tools**



# PLANS for climate resilience

To contrast extreme precipitation and extreme winds it is planned a **restoration**, **environmental rehabilitation** and a **land arrangement** on the karst ridge terraces including environmental rehabilitation.

and

**Restoration of the bathing area** following episodes of **hydrogeological instability**

To avoid further desertification and the degradation of the territory and the loss of some ecosystem services and the endangering of danger of the population.

# PLANS for climate resilience

Installation of a marine anti-intrusion  
barrier along the harbor quay to reduce  
marine ingression incidents.

Guarantee more safety of that village

The barrier will be provided with openings for the  
passage of people but arranged with closures  
through mobile bulkheads.



# Looking forward to a green future

Our PAESC aim is improve **mitigation actions** and **prevent Climate Risks and Vulnerability Assessment**.

*The adaptation strategy can either be part of this plan or developed and mainstreamed in a separate planning document.*

**This is only the beginning of a long-term process to be implemented year by year.**



# Looking forward to a green future

We will continue to **reduce gas emissions** on our territory,  
**increase resilience** and prepare ourselves and all the territory for  
the adverse impacts of **climate change**.

**“These goals will carry out  
translating our political  
commitment  
into practical measures and  
projects”**

*Daniela Pallotta, major*

*Massimo Romita, vice major*

*Chiara Puntar, delegated to EU  
projects*



# Grazie per l'attenzione! Hvala za pozornost!

*Chiara Puntar, Councilor delegated to EU  
projects - Municipality of Duino Aurisina (ITA)*

*[www.ita-slo.eu/secap](http://www.ita-slo.eu/secap)*