



## **PATRES**

**Public administration training and coaching  
on renewable energy systems**



## **PINE**

**Promoting Industrial Energy Efficiency**



**Dr. Johannes Fresner**



**INTELLIGENT ENERGY**  
**EUROPE** 

# Goals of PATRES

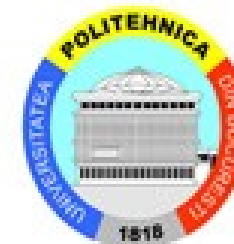
- To support local authorities, public utilities and social housing bodies in implementing effective regulations and policies concerning minimum levels of energy from Renewable energy (RE)
- in their building regulations and codes for new or refurbished buildings or
- in the public procurement for their facilities or social housing.

# Partners

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knowledge is a network



Sveučilište u Rijeci  
University of Rijeka



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Public Administration Training and Coaching  
on Renewable Energy Systems

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## **PATRES: Supporting the Public Administration for the introduction of RES systems in private and public buildings**

PATRES focuses on a customized package for the heads of department and technical officers working for local authorities, public utilities and social housing bodies to support effective policies for the introduction of renewable energy systems in private and public buildings.

The goal is realizing codes and regulations for the construction or renovation of buildings and for green public procurement procedures.

PATRES offers the Public Administration professional

# Austrian communities

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- City of Graz
  - City of Villach
  - City of Baden
  - Eisenkappel
  - Wolfsberg
  - Lieboch
  - Grambach
  - Waltersdorf
-

# Training programme

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- technical introduction (3 days);
  - regulations, law and policies (4 days);
  - fundraising (1,5 days);
  - governance, awareness etc. (1 day);
  - pilot actions (0,5 days).
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# Pilot actions

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- Strategic energy action plans
  - Contracting rules
  - PV plants
  - District heating guidelines
  - Solar warm water in public buildings
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- Common standard for energy auditing for SMEs
- Audit model
  - Simple in application
  - comprehensive
  - Concret, implementation oriented
- Creating of a self financing network of

# Partner

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- **Italy:**

- AREA
- CONFAPI

- **Spain:**

- CIRCE
- CREA

- **Austria:**

- STENUM



- **Slovakia:**

- TUK
- SCCI PRC

- **Rumania**

:

- IPA SA
- APMCR

- **Cyprus:**

# Audit-Ansatz

- Guidance in data collection
- Benchmarking
- Systematic assessment of all processes and equipment with energy consumption (qualitative and quantitative)
- „Self“ documentation of the audit

group 1

*Solo si han dicho que tienen consumptions thermal*

Help ...

*Mark as many as apply*

consumption:

- consumption electric ----- kWh/year
- consumption Natural Gas ----- kWh/year
- consumption gas-oil ----- litros/year
- consumption propano ----- kWh/year
- consumption Biomass ----- kg/year
- consumption fuel-oil ----- litros/year

Please specify price per unit in €

Is natural gas available?

*only if no consumption of natural gas specified*

number of thermal equipments:

- boilers X uds
- furnaces X uds

*one questionnaire per equipment*

Insulation?

Si

No

Vegetable remains in any process?

No

Si

Si

¿Cuántos metros tienen aislamiento defectuoso?

Recomendation

savings with respect to consumption thermal:

- 1% si 1-10m
- 2% si 10-50 m
- 3% si >50m

Is any of these points visible?

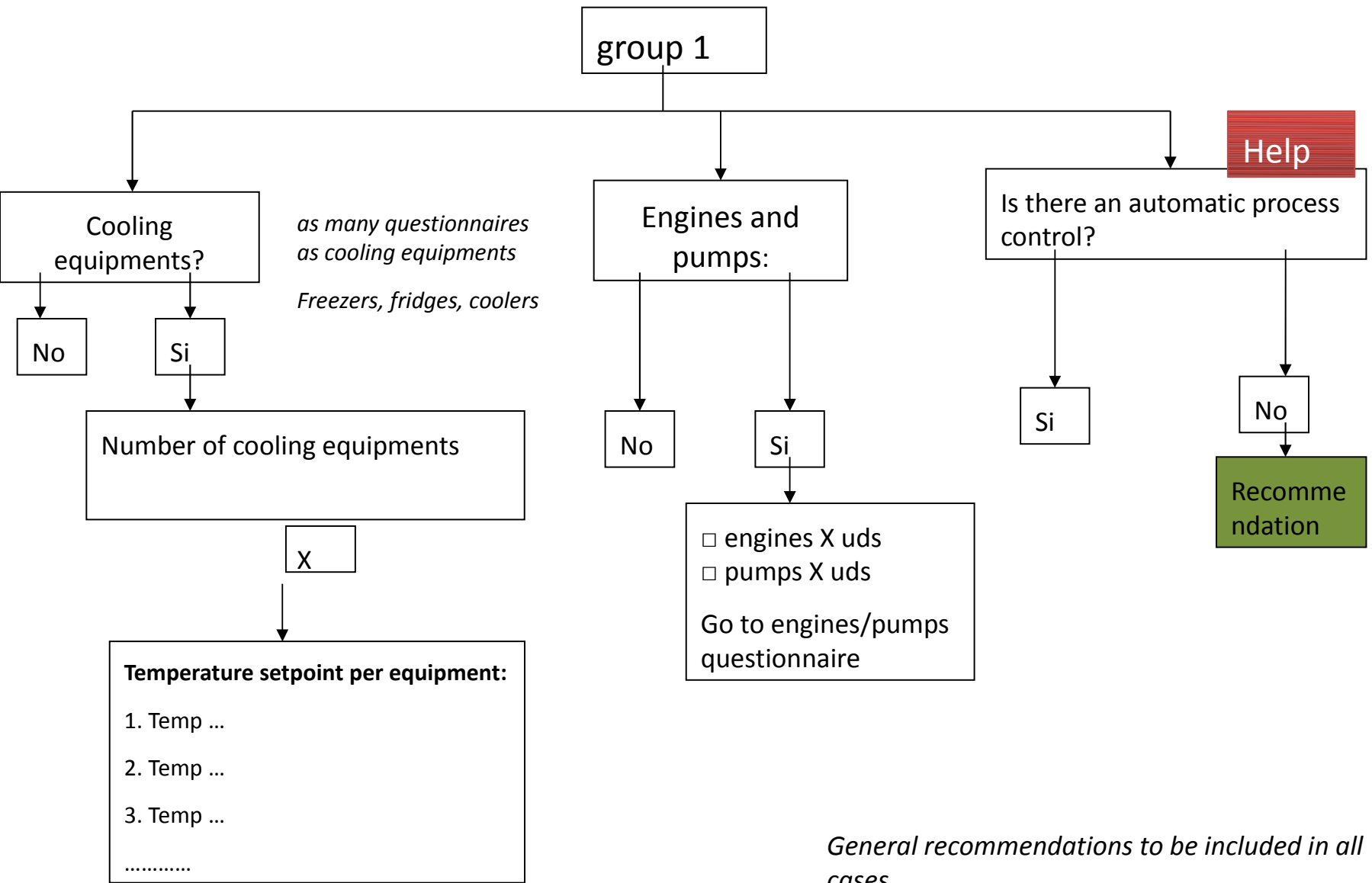
- Cracks
- Changes in appearance
- No insulation at some point
- Temp very high
- .....

Recomendation

savings with respect to consumption thermal: 3%

Recomendation

No



General recommendations to be included in all cases

Cleaning Recommendations



# contact

**STENUM®**



## **STENUM GmbH**

Geidorfgürtel 21

A-8010 GRAZ

Tel.: +43 316 367156-0

Fax: +43 316 367176-13

E-mail: [office@stenum.at](mailto:office@stenum.at)

Web: [www.stenum.at](http://www.stenum.at)