



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

STENUM®



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).
-



Pilot actions

- Strategic energy action plans
 - Contracting rules
 - PV plants
 - District heating guidelines
 - Solar warm water in public buildings
-

- 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

No

Si

Is any of these points visible?

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

Si

¿Cuántos metros tienen aislamiento defectuoso?

Recomendation

savings with respect to consumption thermal:

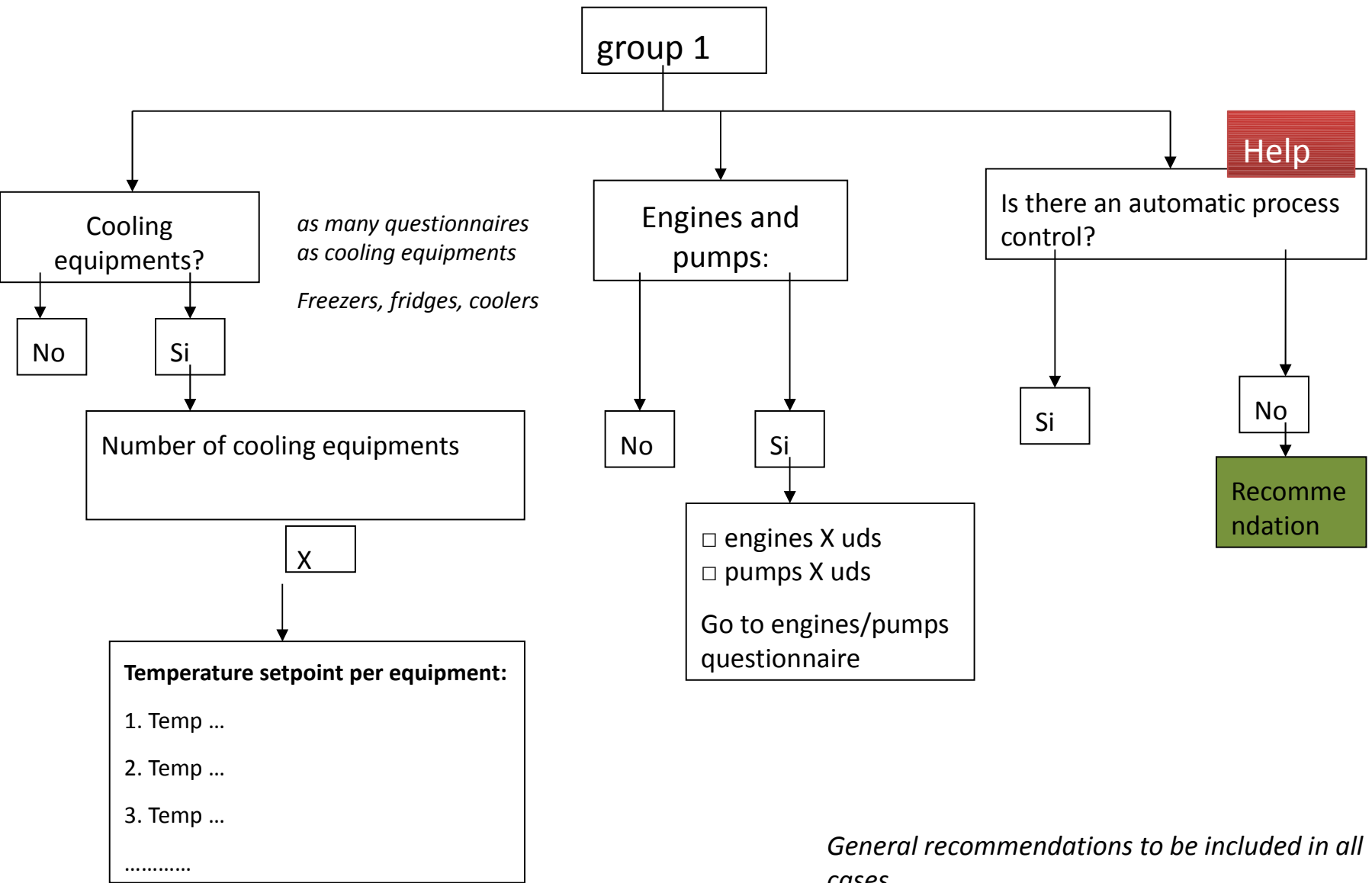
- 1% si 1-10m
- 2% si 10-50 m
- 3% si >50m

Recomendation

savings with respect to consumption thermal: 3%

Recomendation

No



General recommendations to be included in all cases

Cleaning Recommendations



contact

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