

Renewable heat



Component

École Nationale
Supérieure
d'Électrotechnique
d'Électronique
d'Informatique
d'Hydraulique
et des
Télécommunications

In brief

- **Ametys Code:** ELP3
- **Open to exchange students:** Yes

Presentation

Description

1. Introduction to Renewable Heat
 - 1.1. Definition and Challenges of Renewable Heat
 - 1.2. Energy Balance and Share of Heat in Final Consumption
 - 1.3. Policies and Regulations (European, French)
 - 1.4. Comparison with Conventional Heat Sources
2. Renewable Heat Resources
 - 2.1. Solar Thermal
 - 2.2. Biomass and Thermal Bioenergy

2.3. Geothermal Energy

2.4. Waste Heat and Energy Recovery

3. Techno-economic Evaluation and Environmental Impact

4. Case Studies and Industrial Applications