





# Training #11

Infrastructure projects - Preparation of tender documentation for wastewater projects –  
Selection criteria; lowest price or economically most advantageous tender for WWTP



# MEAT

The Contracting authority applies various criteria related to the subject procurement

✓ **Quality, Price, Technical advantages, Functional characteristics**

✓ **Environmental qualities, Operating costs, Cost-effectiveness, After sales service and technical assistance, Delivery date and delivery deadline or completion deadline, etc.**

- Criteria must be connected with the subject of agreement, i.e. connected with the Contracting authority's needs
- Criteria must be concrete and subject to objective and equal application, i.e. must never give the contracting authorities unlimited freedom of choice
- Criteria must be expressed in measurable form and their application must pass external review
- Contracting authority must not apply the rules on determining the significance or the sub-criteria which he has previously failed to introduce to the tenderer

	<i>Lowest price%</i>	<i>MEAT%</i>
Belgium	25	75
Bulgaria	36	64
Czech Republic	38	62
Denmark	24	76
Germany	31	69
Estonia	76	24
Ireland	3	97
Greece	66	34
Spain	5	95
France	3	97
Italy	33	67
Cyprus	81	19
Latvia	61	39
Lithuania	87	13
Luxembourg	44	56
Hungary	41	59
Malta	59	41
Netherlands	27	73
Austria	43	57
Poland	83	17
Portugal	43	57
Romania	67	33
Slovenia	68	32
Slovakia	84	16
Finland	33	67
Sweden	37	63
United Kingdom	3	97
EU27	29	71



# Questions raised by the Contracting authority

- Compliance evaluation – what type of evidence can the suppliers use to prove that their offer complies with the technical specification prescribed by the Contracting authority?
- Compliance verification in execution: how and when?
- Criteria of the most economically most favourable offer and supplier's staff as indicators of likely quality of intellectual services which need to be provided.
- What are the prevailing parameters of the economically most favourable offer which ensure the maximum quality of contract without cost increase?



# Green Public Procurement



# Green Public Procurement

[https://ec.europa.eu/environment/gpp/eu\\_gpp\\_criteria\\_en.htm](https://ec.europa.eu/environment/gpp/eu_gpp_criteria_en.htm)

European Commission

ENVIRONMENT

European Commission > Environment > Green Public Procurement > Criteria >

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Green Public Procurement

News and Events

About GPP

GPP Criteria

Background and approach

EU GPP Criteria

Process for setting criteria

Criteria development workplan

GPP Good Practice

Legal Framework

Policy Framework

GPP Advisory Group

National Action Plans

GPP Projects and Toolkit

FAQs

Publications

Studies

### EU GPP criteria

**Sanitary Tapware**

- Technical Background Report
- EU GPP criteria (published in 2013)

bg cs es da de et el en fr it lt lv hu mt nl pl pt ro sk sl fi sv

**Textiles**

- Technical background report
- EU GPP criteria (published in 2017)

bg cs es da de et el en fr it lt lv hu mt nl pl pt ro sk sl fi sv

**Road Transport**

- Technical Background Report
- EU GPP criteria (published in 2019)

bg cs es da de et el en fr it lt lv hr hu mt nl pl pt ro sk sl fi sv

**Road lighting and traffic signals**

- Technical Background Report
- EU GPP criteria (published in 2018)
- Procurement practice guidance document

bg cs es da de et el en fr fi it lt lv hr hu mt nl pl pt ro sk sl sv

**Toilets and Urinals**

- Technical Background Report
- EU GPP criteria (published in 2013)

bg cs es da de et el en fr it lt lv hu mt nl pl pt ro sk sl fi sv

**Waste Water Infrastructure**

- Technical Background Report
- EU GPP criteria (published in 2013). Available in different EU languages [here](#)

under revision)

- Technical background report
- EU GPP criteria (published in 2008)

# Implementation of green Public procurement

## Full Life cycle

Life cycle phase	Description of financial costs
Construction	Land acquisition Materials Equipment Construction works
Work	Consumables (e.g. chemicals) Spare parts Energy Sludge management fee Staff costs (insurance salary level)
Placing out of commission	Due to the special nature of UPOV infrastructure, the cost of placing out of commission likely won't be significant enough to be included in the main criteria.
Total life cycle costs	The total financial costs of construction elements, work and equipment on the basis of life cycle and offered discount rate.

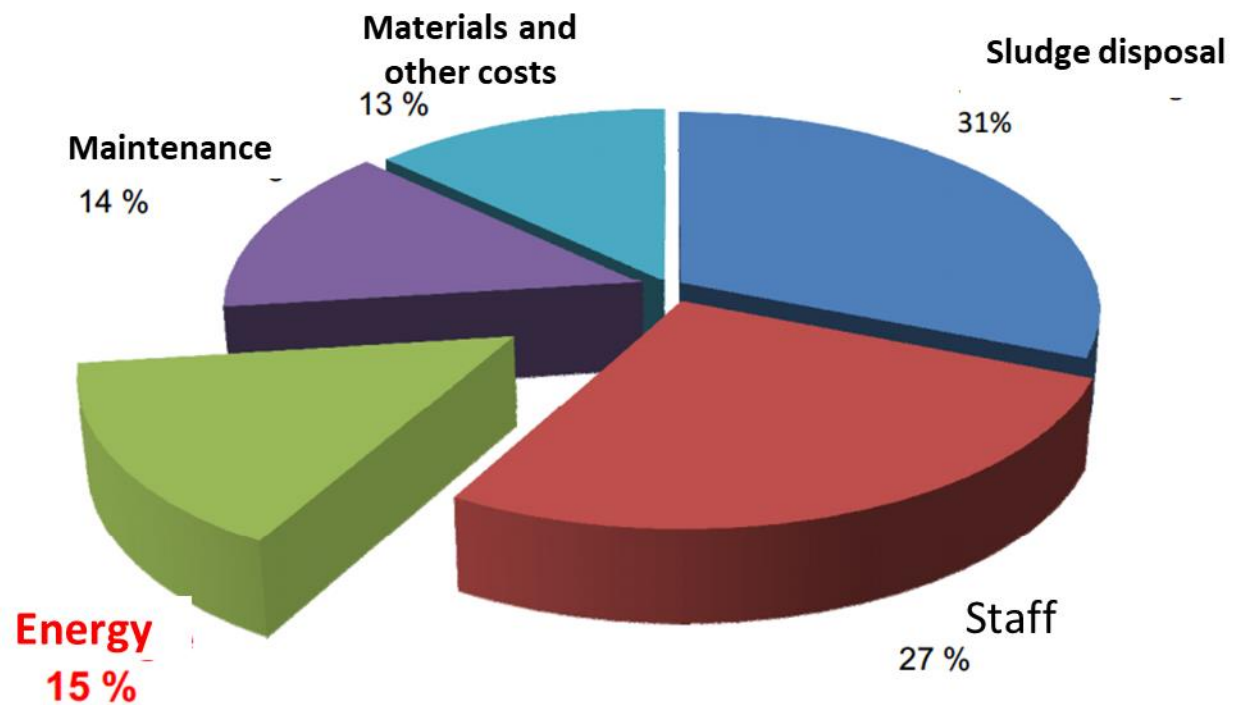
# Green public procurement – continued

Components	Name/description	Quantity	Offered price
Consumables	e.g. type of chemical	e.g. kg/year	E.g. prices offered by consumables suppliers
Energy	e.g. electricity	e.g. no. kWh/year.	Suppliers will have to specify the price
Spare parts	e.g. pump replacement	e.g. number of type xx pumps every 10 years	E.g. price offered by the supplier
Workforce	Work replacement	e.g. 1000 hours/year	Suppliers will have to specify the price

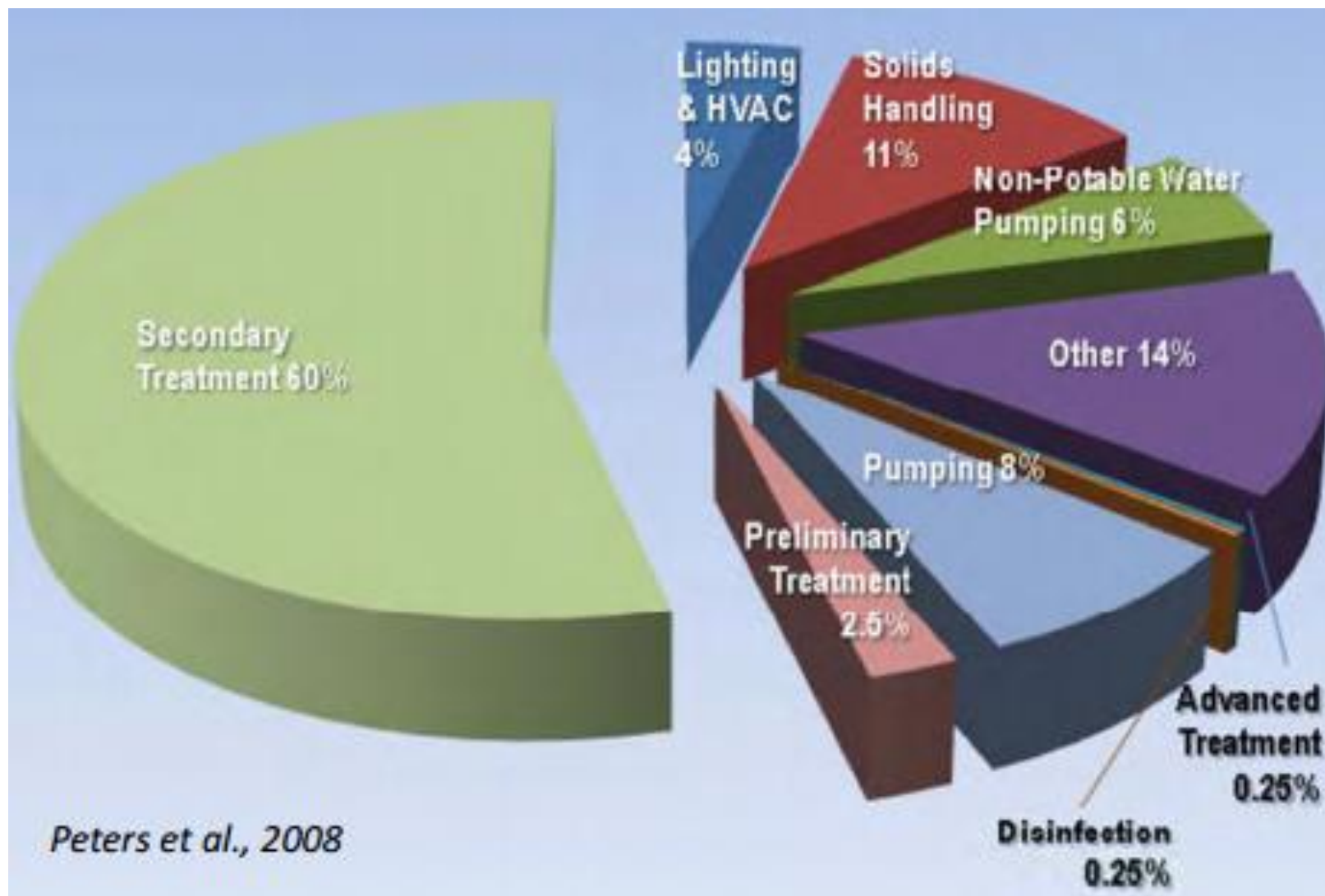


# Cost structure WWTP

## Energy supply costs share in the total operating costs

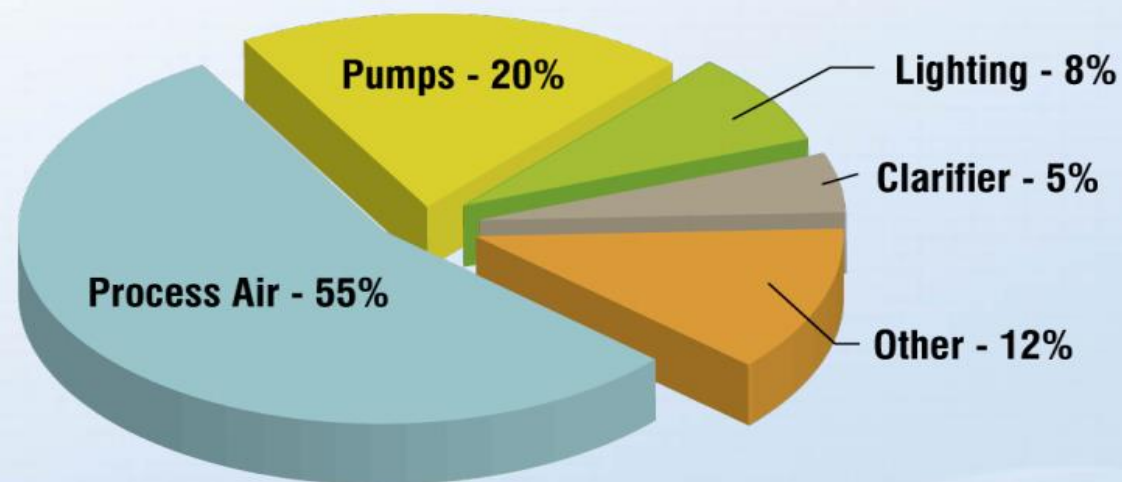


[50.000-100.000 EW ;Bode, Grünebaum]

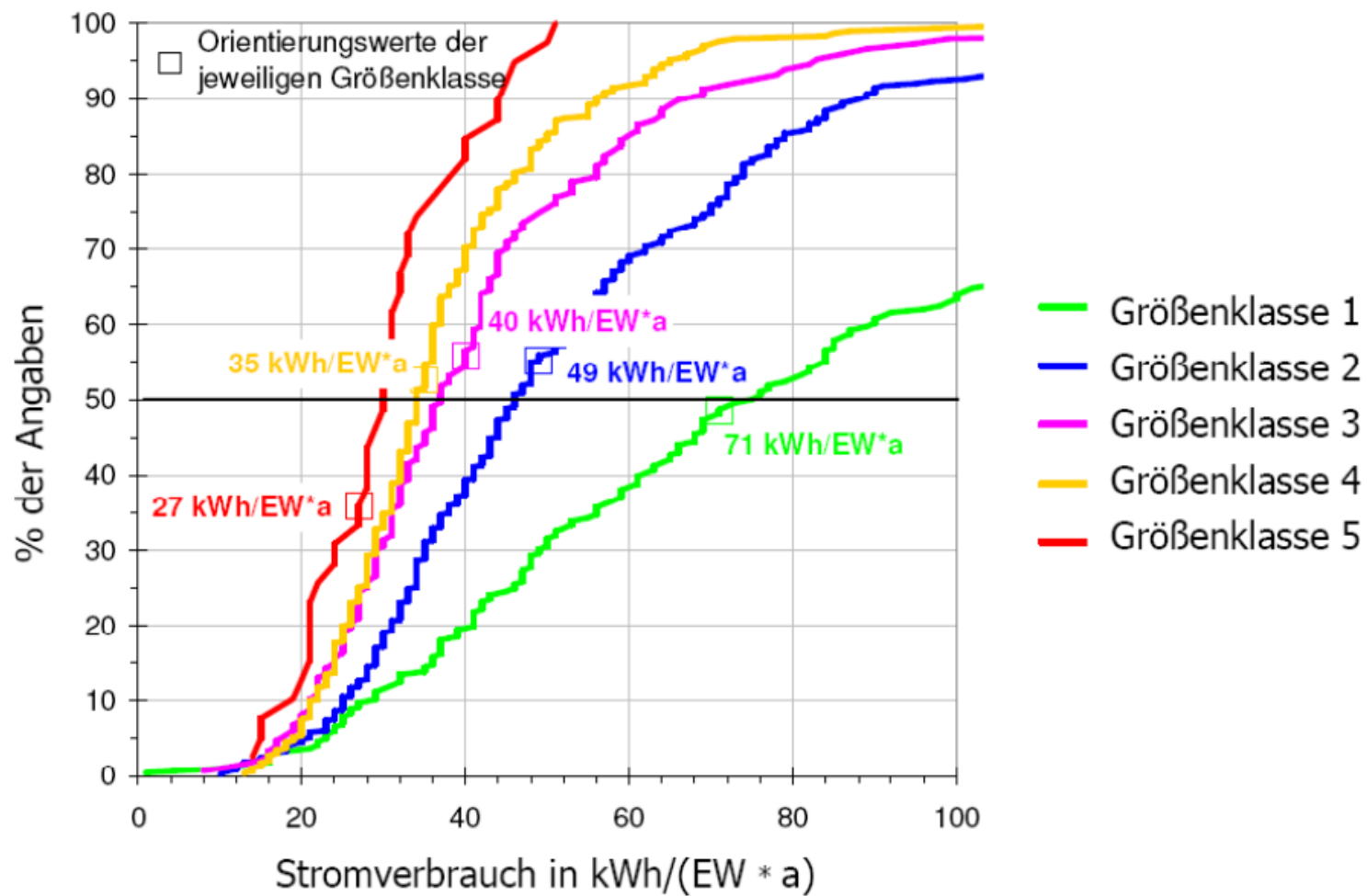




## Process Air Production Represents Over one Half of Total Energy Used at a Typical WWTP

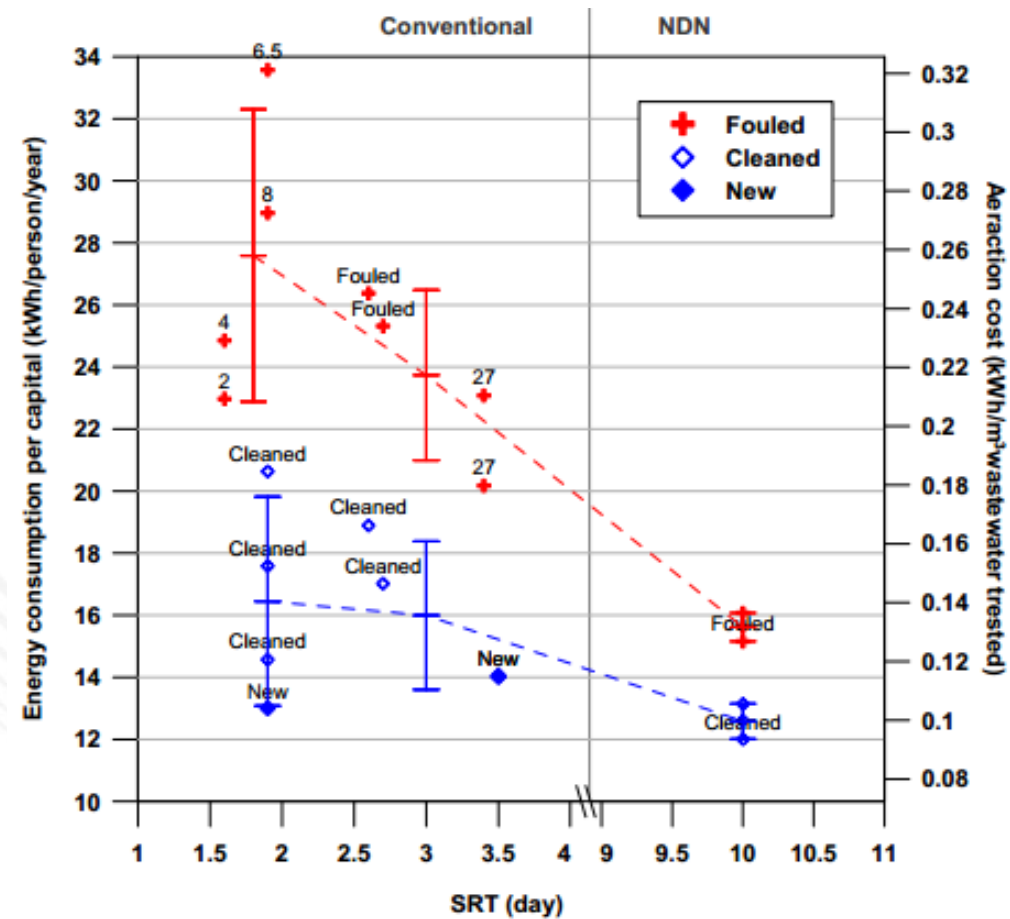
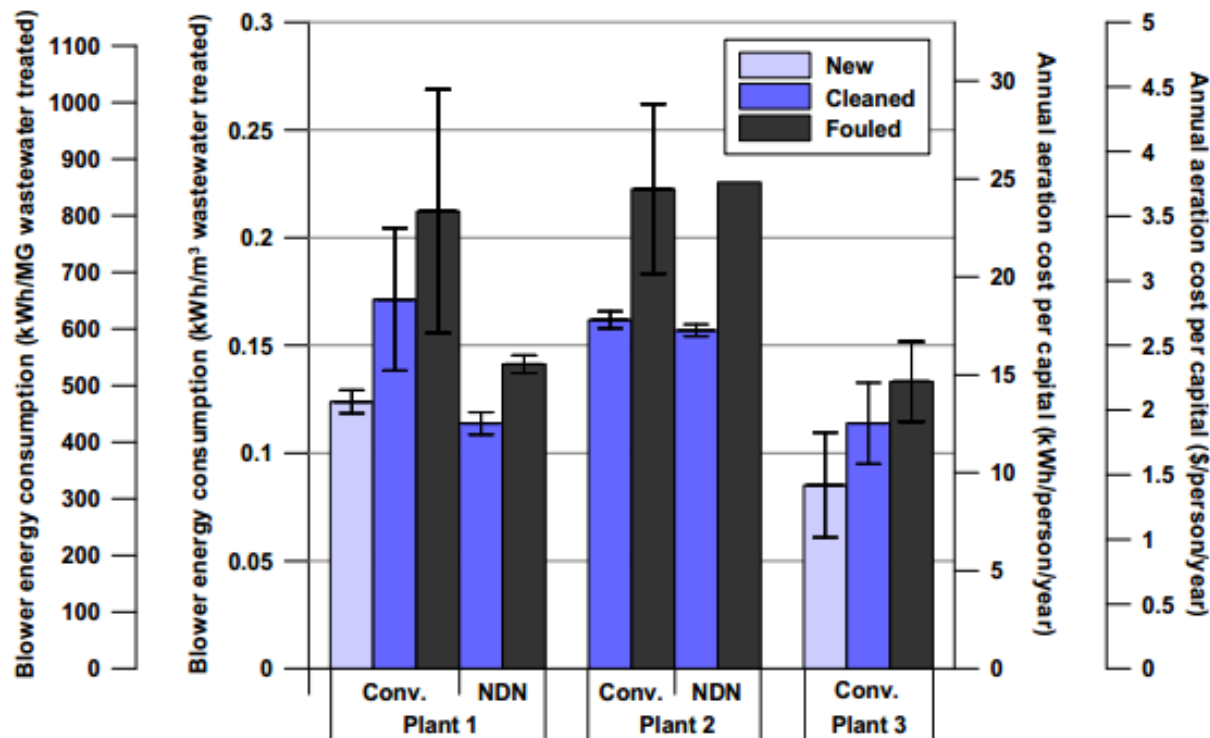


Energy usage at a typical WWTP



(UBA, Haberkern; 2006)





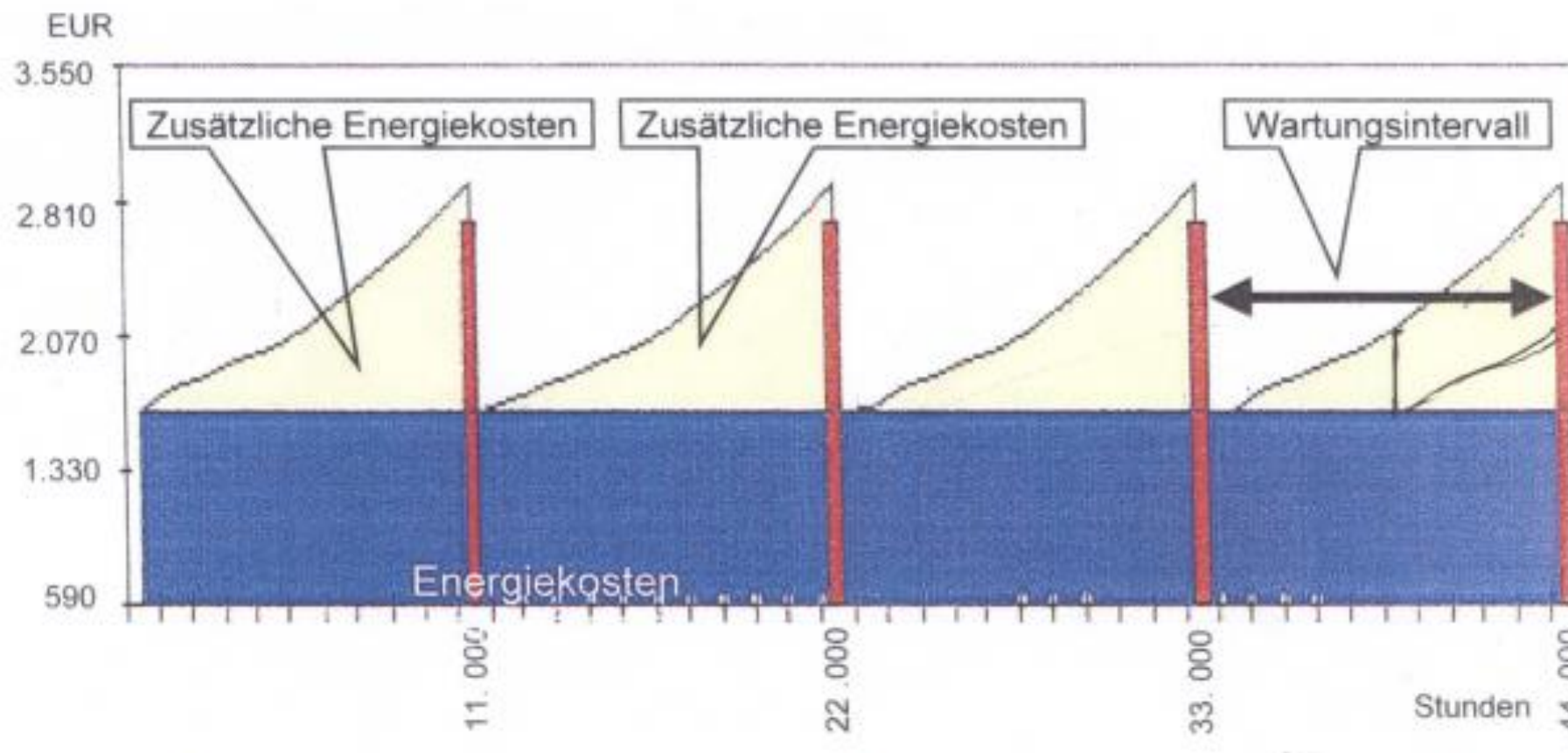




Abb. 4.5.3 Wirkungsgrad und Wartung von Pumpen (Werksangaben Fa. ABS)

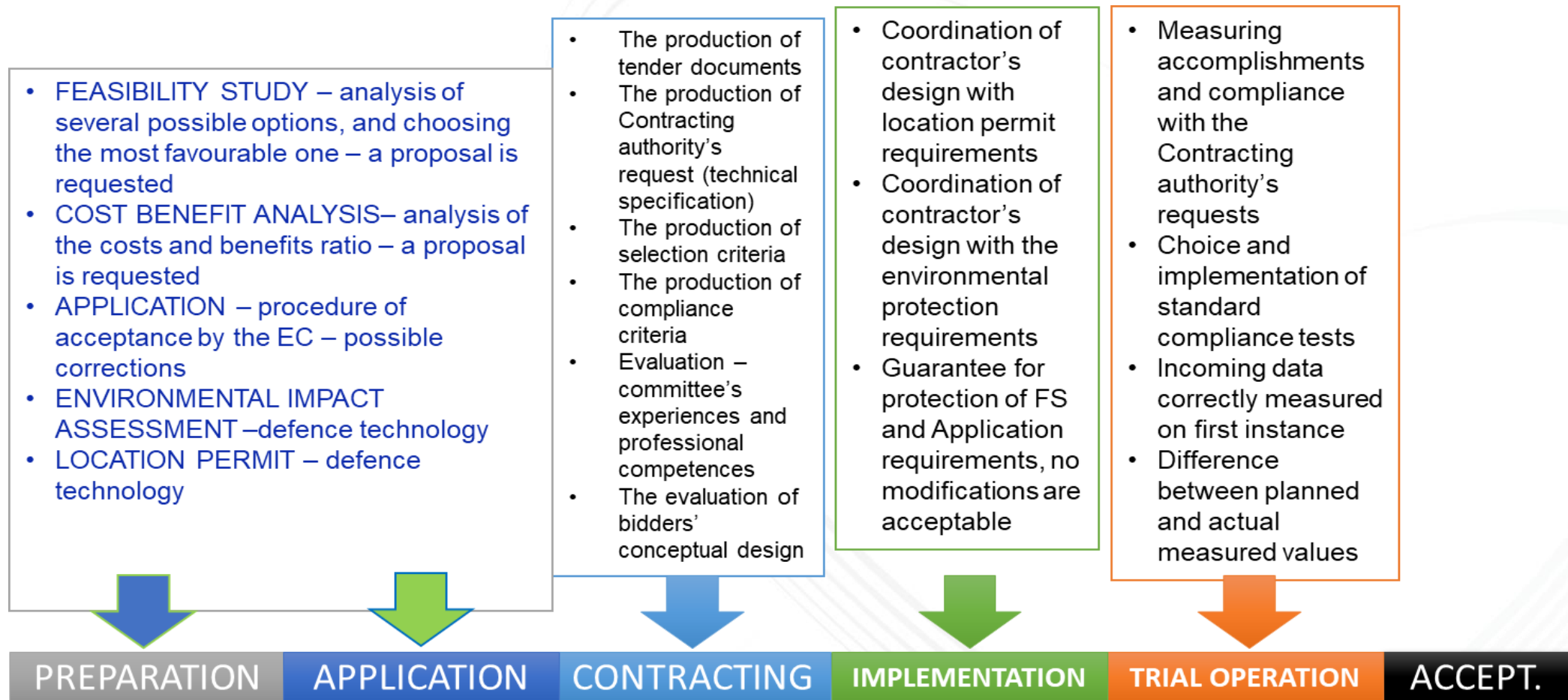


# MEAT possibilities and limitations

## Economically most favourable offer Possibilities and Limitations

- 
- Encouraged by EC
  - Takes into account the qualitative, technically superior and more sustainable option
  - There are practical examples
  - (Theoretically) more cost-effective for the Contracting authority
  - Higher level of flexibility in selection

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- Inexperience in application
  - High level of Contracting authority's knowledge required throughout all the project phases
  - Significantly increased volume of documentation in the preparation phase and the phase of public procurement procedure
  - Increased level of subjectivity during selection
  - Loss of focus during selection into **IMPORTANT**





# EU PROJECT PREPARATION FACILITY PROJECT

All documents, information, materials and pictures from this EU PPF training are available for download in the download section of our site [www.ppf.rs](http://www.ppf.rs)

# Questions and assistance

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**Thank you for your attention!**