

*Common borders. Common solutions.*

# Improving municipal wastewater management in coastal cities

## Objective oriented planning

### II. Objectives analysis



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## Problem tree - objectives tree

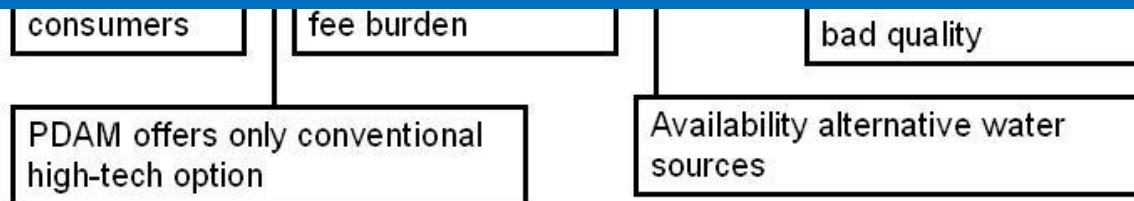
Translate problems into objectives, transform the problem tree into an objectives tree:

- Reformulate problems into **positive, desirable conditions**
- Change relationships from **cause-effect into means-ends**
- Delete/add objectives
- Add lines between means-ends relationships
- Select the main objective(s): the project purpose

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## Lembang - Problem tree

It is important that you make sure that you do not skip any steps in the relationship between the problem and its causes.



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## Problem tree - objectives tree

- Instead of looking at the causes of the problem, you look at the effects of the problem. So;
  - Instead of asking the question why this problem exists, you **ask the question what this problem leads to.**

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## Lembang – Develop the objectives tree

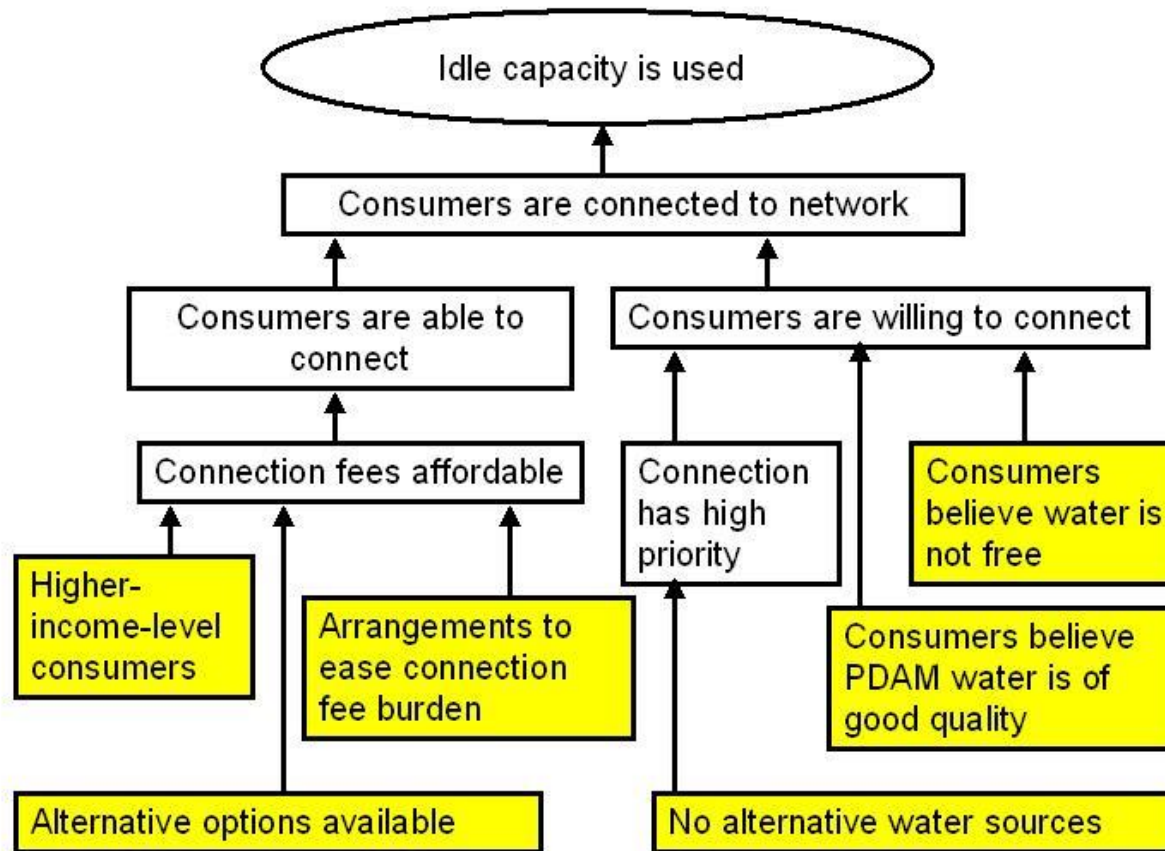
Idle capacity is used

Similar to identifying the causes of the problem, when identifying the effects of the problem it is also necessary to make sure that no steps are skipped.



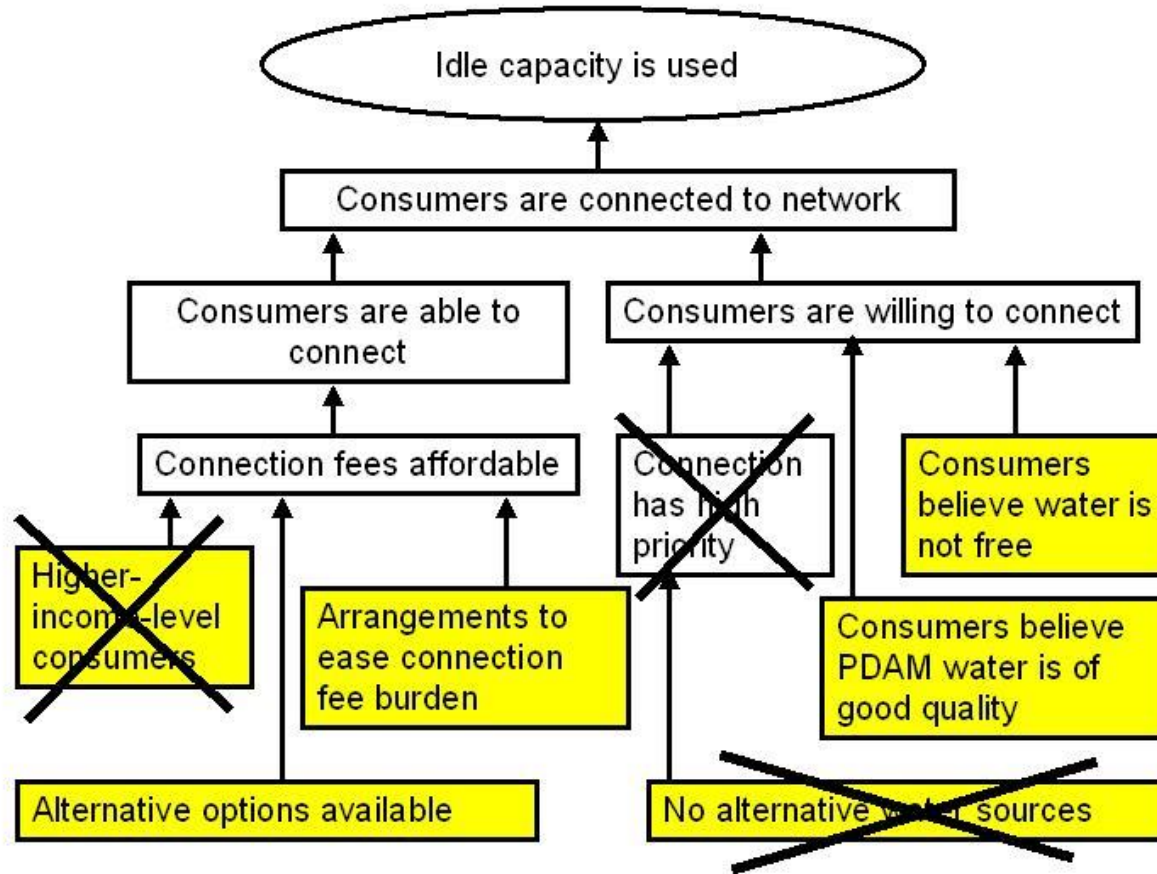
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# Lembang – Identify the project objectives



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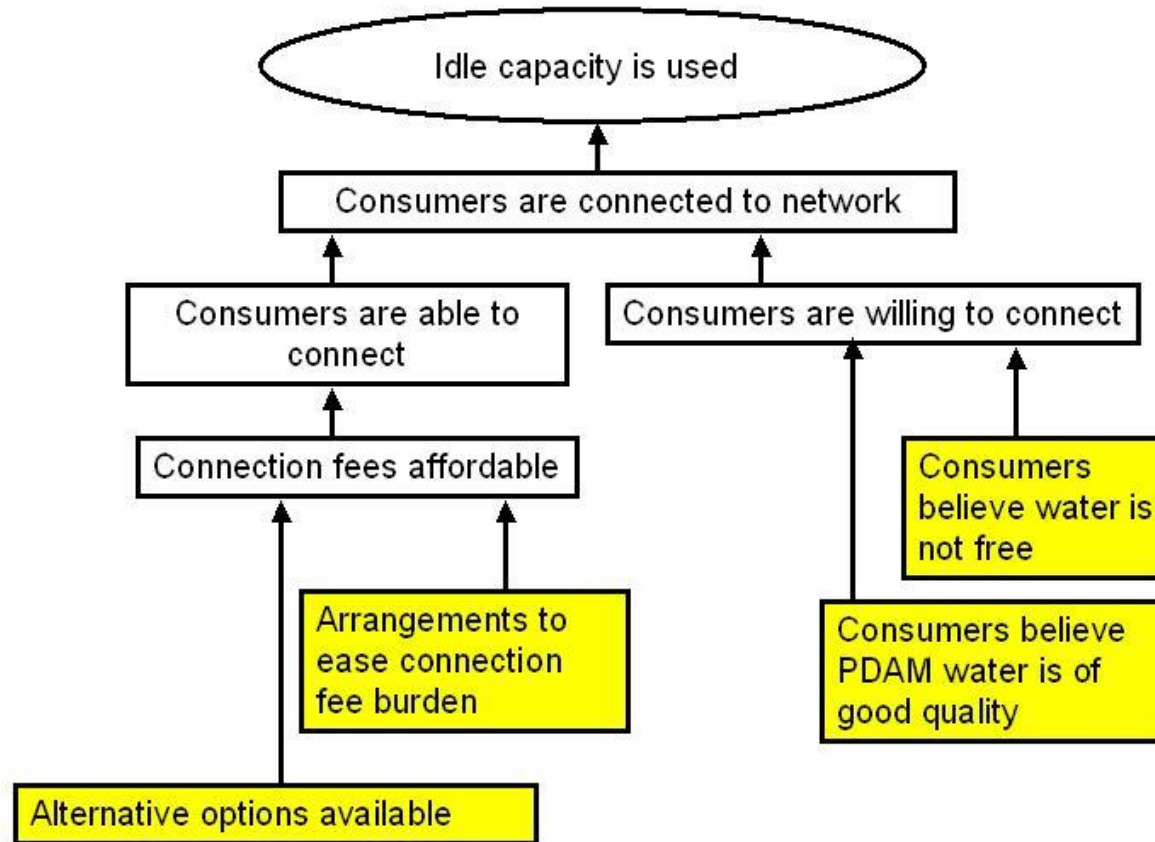
# Lembang – Delete and add objectives





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# Lembang – the revised objective tree



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## **Lembang – Project Objectives**

- **Consumers believe water is of good quality;**
- **Consumers agree water should not be free;**
- **Alternative technological options are available;**
- **Arrangements exist to ease the burden of the connection fee.**

**If the project in the case of Lembang would meet the following objectives, the main objective would be achieved.**

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## Things to watch out for in the objectives tree

1. A mistake in the problem tree will automatically become a mistake in the objectives tree.

For example: skipped steps

Peter was bored yesterday → **John failed his exam**

**Translates to...**

Peter was not bored yesterday → John did not fail his exam

2. Unrealistic objectives should be removed.
3. Objectives are the desired situation. They are not project activities.