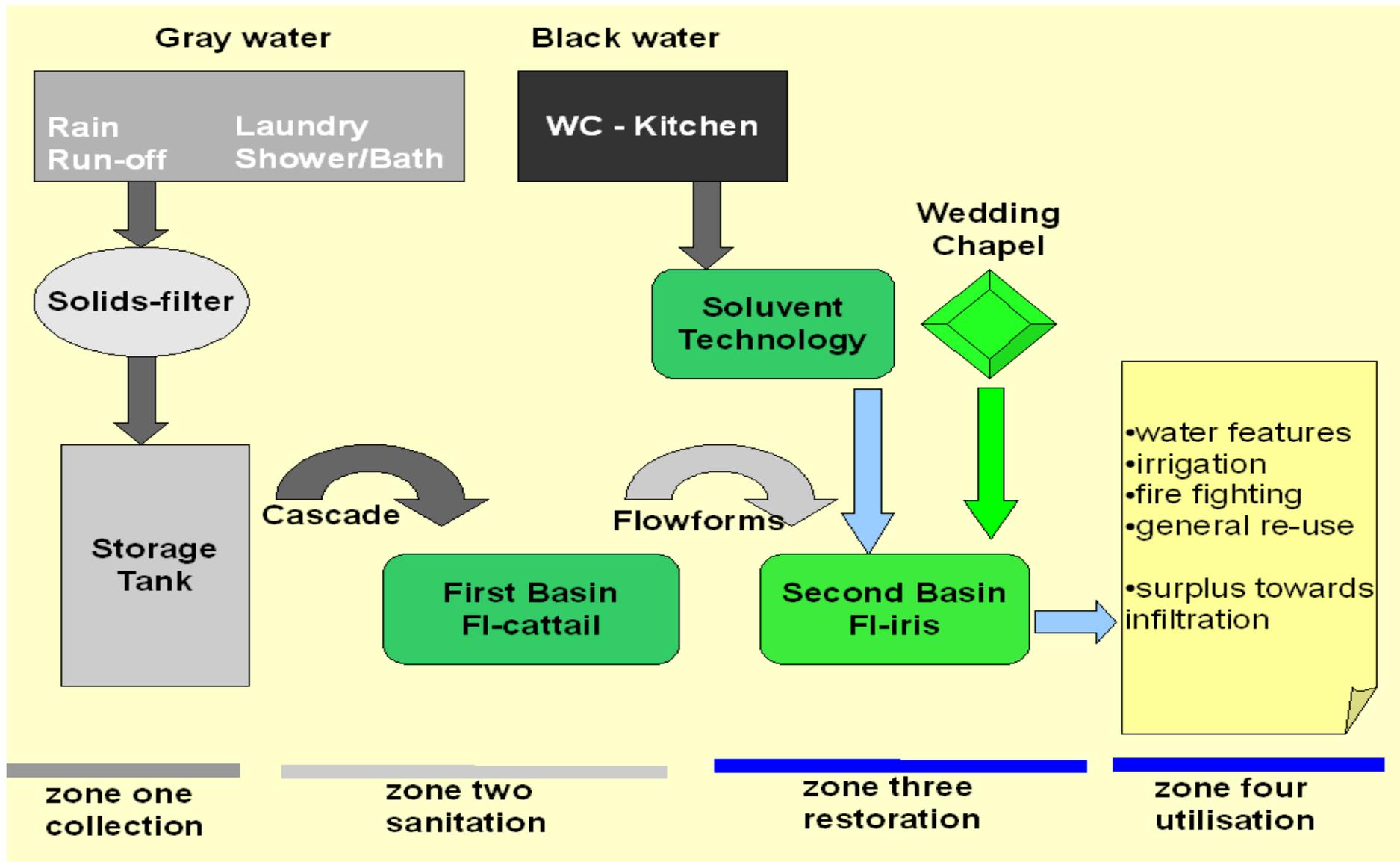


# Karajaal Water Purification System

- Fully biological
- No chemicals added or used
- Reclaiming water from storm water, gray water and black water
- Less charges on municipal sewage system
- Less charges on municipal water supply system
- Possibility to create renewable energy on-site
- Naturally energizing reclaimed water to high quality drinking water







Rain water



Gray water



Particle Filter



Storage Tank



To non-potable use



To further purification

## Water Collection:

This system will purify rain water, rain water run-off and gray water.

The water is collected and subsequently filtered mechanically to take not-dissolved particles out

Then it is stored to be channeled into non-potable water uses or into further sanitation and restoration processes



Cascades



Sanitation Basin



Flow Forms



Restoration Basin

## Water Sanitation and Restoration:

Non-structural water cascades introduce the water into the sanitation basin.

Here the main charges of the water are taken out (phosphates, nitrates, heavy metals and other pollutants)

From there water is introduced via Flow-Forms into the restoration basin.

Where the water is re-vitalized to a high-quality level



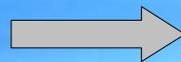
**To water re-utilization**



Cascades



Sanitation  
Basin



**To water restoration**

## Water Sanitation:

Non-structural water cascades charge the gray water with oxygen and introduce it into the sanitation basin.

This basin is completely covered with special water purification plants on floating islands.

Microbial biofilm on the roots of the plants sequesters phosphates, nitrates, heavy metals and harmful bacteria out of the water (bio-active area of floating islands is 80-120 times greater than filtration wetlands).

Water charged through cascades will enhance the development of masses of foliage and benthonic lifeforms.



Flow Forms



Restoration Basin

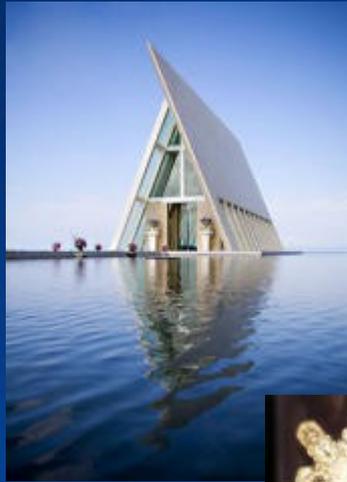
## Water Restoration:

Structural Flow Forms are build following the natural spontaneous flow of water; they introduce the water into the purification basin.

Flow forms re-vitalize the water and re-charge it with energy and self-purification forces.

Re-charged water is does not encourage biomass production any more but enhances the production of flowers, seeds and aquatic surface fauna.

 **To water re-utilization**



Wedding chapel



Place of Worship



## Water Restoration:

Dr. Emotos research has shown the possibility of conditioning the structure of water by human intentions and actions.

The most favorable influences coming from intentions of kindness, love, gratitude, from pieces of classical music, from images flowers...

To channel the already re-structured water through places of celebration and worship will definitely enhance the energy contained in the water.

 **To water re-utilization**

As the system produces potable and non-potable water, the water is taken out of the system at the point corresponding to the demand/purpose.



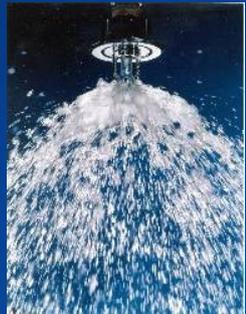
Water effects



drinking



hygiene



fire-fighting



irrigation



restrooms

Non-potable applications



Sanitation basin



Storage tank

Potable applications



Restoration basin

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